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1.2 bzip2 1.0.8

1.3 boost 1.62.0

1.3.1 Available under license :

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/vector.hpp>


template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

int main() { }
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```

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  <title>License &amp;#8212; Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="../../_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="../../_static/pygments.css" type="text/css" />

  <script type="text/javascript">
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      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="../../_static/jquery.js"></script>
  <script type="text/javascript" src="../../_static/underscore.js"></script>
  <script type="text/javascript" src="../../_static/doctools.js"></script>
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</div>


  <div class="document">
 <div class="chapter">
    <div class="body" role="main">

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```

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</body>
</html>

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#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/transform.hpp>
#include <boost/mpl/vector.hpp>


template <typename X>
struct f { using type = X; };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::transform<vector, boost::mpl::quote1<f>>::type;


int main() { }
```

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//
// See http://www.boost.org/libs/intrusive for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_INTRUSIVE_DETAIL_MPL_HPP
#define BOOST_INTRUSIVE_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
```

```
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/intrusive/detail/config_begin.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <cstddef>

namespace boost {
namespace intrusive {
namespace detail {

using boost::move_detail::is_same;
using boost::move_detail::add_const;
using boost::move_detail::remove_const;
using boost::move_detail::remove_cv;
using
 boost::move_detail::remove_reference;
using boost::move_detail::add_reference;
using boost::move_detail::remove_pointer;
using boost::move_detail::add_pointer;
using boost::move_detail::true_type;
using boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
using boost::move_detail::enable_if;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::is_const;
using boost::move_detail::identity;
using boost::move_detail::alignment_of;
using boost::move_detail::is_empty;
using boost::move_detail::addressof;
using boost::move_detail::integral_constant;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using
 boost::move_detail::apply;
using boost::move_detail::eval_if_c;
using boost::move_detail::eval_if;
using boost::move_detail::unvoid_ref;
```

```
using boost::move_detail::add_const_if_c;

template<std::size_t S>
struct ls_zeros
{
  static const std::size_t value = (S & std::size_t(1)) ? 0 : (1 + ls_zeros<(S>>1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};

template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

// Infrastructure for providing a default type for T::TNAME if absent.
#define BOOST_INTRUSIVE_INSTANTIATE_DEFAULT_TYPE_TMPLT(TNAME)     \
  template <typename T>                                    \
  struct boost_intrusive_has_type_ ## TNAME                    \
  {                                                        \
    template <typename X>                                  \
    static char test(int, typename X::TNAME*);                 \

                                    \
    template <typename X>                                  \
    static int test(...);                                  \
                                                           \
    static const bool value = (1 == sizeof(test<T>(0, 0)));     \
  };                                                       \
                                                           \
  template <typename T, typename DefaultType>                  \
  struct boost_intrusive_default_type_ ## TNAME                \
  {                                                        \
    struct DefaultWrap { typedef DefaultType TNAME; };         \
                                                           \
    typedef typename                                       \
      ::boost::intrusive::detail::if_c                     \
        < boost_intrusive_has_type_ ## TNAME<T>::value         \

      , T, DefaultWrap>::type::TNAME type;                 \
  };                                                       \
  //
```

```
#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL)   \
    typename INSTANTIATION_NS_PREFIX                                        \
      boost_intrusive_default_type_ ## TNAME< T, TIMPL >::type              \
//

#define BOOST_INTRUSIVE_HAS_TYPE(INSTANTIATION_NS_PREFIX, T, TNAME)  \
    INSTANTIATION_NS_PREFIX                                 \
      boost_intrusive_has_type_ ## TNAME< T >::value        \
//

#define BOOST_INTRUSIVE_INSTANTIATE_EVAL_DEFAULT_TYPE_TMPLT(TNAME)\
 template <typename T, typename DefaultType>                \
 struct boost_intrusive_eval_default_type_ ## TNAME         \
 {                                                          \
    template <typename X>                                   \
    static char
 test(int, typename X::TNAME*);                             \
                                                            \
    template <typename X>                                   \
    static int test(...);                                   \
                                                            \
    struct DefaultWrap                                      \
    { typedef typename DefaultType::type TNAME; };          \
                                                            \
    static const bool value = (1 == sizeof(test<T>(0, 0)));    \
                                                            \
    typedef typename                                        \
      ::boost::intrusive::detail::eval_if_c                 \
        < value                                             \
        , ::boost::intrusive::detail::identity<T>           \
        , ::boost::intrusive::detail::identity<DefaultWrap>
  \
        >::type::TNAME type;                                \
 };                                                         \
//

#define BOOST_INTRUSIVE_OBTAIN_TYPE_WITH_EVAL_DEFAULT(INSTANTIATION_NS_PREFIX, T,
TNAME, TIMPL) \
    typename INSTANTIATION_NS_PREFIX                                        \
      boost_intrusive_eval_default_type_ ## TNAME< T, TIMPL >::type         \
//

#define BOOST_INTRUSIVE_INTERNAL_STATIC_BOOL_IS_TRUE(TRAITS_PREFIX,
TYPEDEF_TO_FIND) \
template <class T>\
struct TRAITS_PREFIX##_bool\
{\
```

```
  template<bool Add>\
  struct two_or_three {yes_type _[2 + Add];};\
  template <class U> static yes_type test(...);\
  template <class U> static two_or_three<U::TYPEDEF_TO_FIND> test (int);\
  static const std::size_t value = sizeof(test<T>(0));\
};\
\
template <class T>\
struct TRAITS_PREFIX##_bool_is_true\
{\
  static const bool value = TRAITS_PREFIX##_bool<T>::value > sizeof(yes_type)*2;\
};\
//

#define BOOST_INTRUSIVE_HAS_STATIC_MEMBER_FUNC_SIGNATURE(TRAITS_NAME,
 FUNC_NAME) \
 template <typename U, typename Signature> \
 class TRAITS_NAME \
 { \
 private: \
 template<Signature> struct helper;\
 template<typename T> \
 static ::boost::intrusive::detail::yes_type test(helper<&T::FUNC_NAME>*); \
 template<typename T> static ::boost::intrusive::detail::no_type test(...); \
 public: \
 static const bool value = sizeof(test<U>(0)) == sizeof(::boost::intrusive::detail::yes_type); \
 }; \
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME, FUNC_NAME) \
template <typename Type> \
struct TRAITS_NAME \
{ \
  struct BaseMixin \
  { \
    void FUNC_NAME(); \
  }; \
  struct Base : public Type, public BaseMixin { Base(); }; \
  template <typename T, T t> class Helper{}; \
  template <typename U> \
  static ::boost::intrusive::detail::no_type  test(U*, Helper<void (BaseMixin::*)(), &U::FUNC_NAME>* = 0); \
  static ::boost::intrusive::detail::yes_type test(...); \

 static const bool value = sizeof(::boost::intrusive::detail::yes_type) == sizeof(test((Base*)(0))); \
};\
//

#define BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED_IGNORE_SIGNATURE(TRAITS_NAME,
```

```
FUNC_NAME) \
BOOST_INTRUSIVE_HAS_MEMBER_FUNC_CALLED(TRAITS_NAME##_ignore_signature, FUNC_NAME)
\
\
template <typename Type, class> \
struct TRAITS_NAME \
  : public TRAITS_NAME##_ignore_signature<Type> \
{};\
//

} //namespace detail
} //namespace intrusive
} //namespace boost

#include <boost/intrusive/detail/config_end.hpp>

#endif //BOOST_INTRUSIVE_DETAIL_MPL_HPP
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]

[section:mpl MPL Interoperability]

All the value based traits in this library conform to MPL's requirements
for an [@../../../../libs/mpl/doc/refmanual/integral-constant.html Integral Constant type].

Please note that these types no longer inherit from `mpl::true_` or `mpl::false_` etc, and the library
will no longer implicitly include any MPL header. However there is an implicit conversion from
`integral_constant` to the corresponding MPL types, therefore tag-dispatching that uses MPL types
in function overloads will still work as before.

[endsect]
[/
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href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png" alt="Next">

<h2 class="title" style="clear: both">
MPL Interoperability
</h2>

    All the value based traits in this library conform to MPL's requirements for
    an <a
 href="../../../../../libs/mpl/doc/refmanual/integral-constant.html" target="_top">Integral
    Constant type.

    Please note that these types no longer inherit from <code class="computeroutput">mpl::true_</code> or
    <code class="computeroutput">mpl::false_</code> etc, and the library will no longer
    implicitly include any MPL header. However there is an implicit conversion
    from <code class="computeroutput">integral_constant</code> to the
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    Jesse Jones, Mat Marcus, Itay Maman, John Maddock, Alexander Nasonov, Thorsten
    Ottosen, Roman Perepelitsa, Robert Ramey, Jeremy Siek, Robert Stewart and Steven
    Watanabe
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target="_top">http://www.boost.org/LICENSE_1_0.txt)

</td>
</tr></table>
<hr>

<img src="../../../../../doc/src/images/prev.png" alt="Prev"><a
accesskey="u" href="../index.html"><img src="../../../../../doc/src/images/up.png" alt="Up"><a accesskey="h"
href="../index.html"><img src="../../../../../doc/src/images/home.png" alt="Home"><a accesskey="n"
href="examples.html"><img src="../../../../../doc/src/images/next.png"
 alt="Next">

</body>
</html>
[article Copyright Test
[quickbook 1.5]

```
[copyright 1963-1965 Jane Doe, 2018 Joe Blow, John Coe]
[copyright 1977,1985 Someone else]
]
var group__group_ext_mpl =
[
  [ "integral_c", "structboost_1_1mpl_1_1integral__c.html", null ],
  [ "list", "structboost_1_1mpl_1_1list.html", null ],
  [ "vector", "structboost_1_1mpl_1_1vector.html", null ]
];
//////////////////////////////////////////////////////////////////////////////
//
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//
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// (See accompanying file LICENSE_1_0.txt or copy at
// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/container for documentation.
//
//////////////////////////////////////////////////////////////////////////////

#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
#define BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP

#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif

#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <boost/container/detail/config_begin.hpp>
#include <boost/container/detail/workaround.hpp>
#include <boost/move/detail/type_traits.hpp>
#include <boost/intrusive/detail/mpl.hpp>

#include <cstddef>

namespace boost {
namespace container {
namespace dtl {

using boost::move_detail::integral_constant;
using boost::move_detail::true_type;
using
 boost::move_detail::false_type;
using boost::move_detail::enable_if_c;
```

```
using boost::move_detail::enable_if;
using boost::move_detail::enable_if_convertible;
using boost::move_detail::disable_if_c;
using boost::move_detail::disable_if;
using boost::move_detail::disable_if_convertible;
using boost::move_detail::is_convertible;
using boost::move_detail::if_c;
using boost::move_detail::if_;
using boost::move_detail::identity;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::yes_type;
using boost::move_detail::no_type;
using boost::move_detail::bool_;
using boost::move_detail::true_;
using boost::move_detail::false_;
using boost::move_detail::unvoid_ref;
using boost::move_detail::and_;
using boost::move_detail::or_;
using boost::move_detail::not_;
using boost::move_detail::enable_if_and;
using boost::move_detail::disable_if_and;
using boost::move_detail::enable_if_or;
using boost::move_detail::disable_if_or;

template
 <class FirstType>
struct select1st
{
  typedef FirstType type;

  template<class T>
  const type& operator()(const T& x) const
  {  return x.first;   }

  template<class T>
  type& operator()(T& x)
  {  return const_cast<type&>(x.first);   }
};

template <class T, class=void>
struct is_transparent
{
  static const bool value = false;
};

template <class T>
```

```
struct is_transparent<T, typename T::is_transparent>
{
  static const bool value = true;
};

template <typename C, typename K, typename R>
struct enable_if_transparent
  : boost::move_detail::enable_if_c<dtl::is_transparent<C>::value, R>
{};



}  //namespace dtl {
}  //namespace container {
}  //namespace boost {

#include <boost/container/detail/config_end.hpp>

#endif   //#ifndef BOOST_CONTAINER_CONTAINER_DETAIL_MPL_HPP
```

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SOFTWARE.

```
#!/usr/bin/env python
from subprocess import check_output as run
from datetime import datetime
from itertools import groupby
from operator import itemgetter
import re
import magic
```

```
def authors(filename):
  log = run(['git', 'log', '--follow',
          '--date=short','--format=%aN%x09%ad', filename],
          universal_newlines=True)
  for line in log.splitlines():
     author, date = line.split('\t')
     if author != 'fix-copyright.py':
        yield author, datetime.strptime(date, '%Y-%m-%d')

def new_copyright(filename, previous):
  def f():
     au = list(authors(filename))
     alldates = map(itemgetter(1), au)
     aup = sorted(au + map(lambda a: (a, None), previous), key=itemgetter(0))
     for author, records in groupby(aup, itemgetter(0)):
        dates = filter(None, map(itemgetter(1), records))
        if not dates: dates = alldates
        start = min(dates)
        end = max(dates)
        fmt = '{0}' if start.year ==
 end.year else '{0}-{1}'
        line = 'Copyright ' + fmt.format(start.year, end.year) + ' ' + author
        key = (start, author)
        yield key, line
  return map(itemgetter(1), sorted(f()))

def fix_copyright(filename):
  # Find copyright block in original file
  prefix = set()
  names = []
  lines = []
  with open(filename, 'r') as f:
     content = list(f)
  for i, line in enumerate(content[:15]):
     m = re.match(r'^(?P<prefix>\W*)(\(c\))?\s*?copyright\s*(\(c\))?\s+\d{4}(\s*-\s*\d{4})?\s+(?P<name>.+?)\s*$',
line, re.IGNORECASE)
     if m:
        d = m.groupdict()
        prefix.add(d['prefix'])
        lines.append(i)
        names.append(d['name'].strip())
  if len(prefix) != 1:
     print 'Not found:', filename
     return
  prefix = list(prefix)[0]

  print filename
  new = iter(new_copyright(filename, names))
```

```
  with open(filename, 'w') as f:
     for i, line in enumerate(content):
        if i in
lines:
           for repl in new:
              print >>f, prefix + repl
        else:
           print >>f, line,
  pass

def all_files():
  ls = run(['git', 'ls-files'], universal_newlines=True)
  for filename in ls.splitlines():
     if magic.from_file(filename, mime=True).split('/')[0] == 'text':
        yield filename

for f in all_files():
  fix_copyright(f)
[article Invalid copyright
[quickbook 1.5]
[copyright No year]
]

Maybe this should pass?
<?xml version="1.0" encoding="utf-8"?>

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-->

<section id="date_time.license">
 <title>Boost Date-Time Library License</title>
 <bridgehead renderas="sect2">Boost Date-Time Library License</bridgehead>
 <!--
 <ulink url="../../../index.htm">
   <imagedata align="left"
              format="GIF"
       fileref="../../../boost.png"
       alt="C++ Boost" />
    </ulink>-->
 <!--hr /-->
 <para>
   The following is the overall license for the boost date_time
   library. This notice is found in all source files related to the
   library.
 </para>
 <para>
```

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</para>
<!--hr / -->
<ulink url="mailto:jeff@crystalclearsoftware.com">Jeff Garland</ulink>
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Joerg Walter (jhr.walter - at - t-online.de : email to ublas mailing list Mon, 17 Sep 2007 10:17:08 +0200)
Mathias Koch (mkoch - at - idesis.de 7 : email to boost-owner@lists.boost.org Sep 2007 13:20:09 +0200)

--- end ---
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```
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-->
<!-- boost-no-inspect -->
<!-- HTML header for doxygen 1.8.9.1-->
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/xhtml;charset=UTF-8"/>
<meta http-equiv="X-UA-Compatible" content="IE=9"/>
<meta name="generator" content="Doxygen 1.8.11"/>
<title>Boost.Hana: Boost.MPL adapters</title>
<link href="tabs.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="jquery.js"></script>
<script type="text/javascript" src="dynsections.js"></script>
<link href="navtree.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="resize.js"></script>
<script type="text/javascript" src="navtreedata.js"></script>
<script type="text/javascript"
 src="navtree.js"></script>
<script type="text/javascript">
 $(document).ready(initResizable);
 $(window).load(resizeHeight);
</script>
<link href="search/search.css" rel="stylesheet" type="text/css"/>
<script type="text/javascript" src="search/searchdata.js"></script>
<script type="text/javascript" src="search/search.js"></script>
<script type="text/javascript">
 $(document).ready(function() { init_search(); });
</script>
<script type="text/x-mathjax-config">
 MathJax.Hub.Config({
   extensions: ["tex2jax.js"],
   jax: ["input/TeX","output/HTML-CSS"],
});
```

```
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MathJax.Hub.Config({
  "HTML-CSS": {
    linebreaks: {
      automatic: true,
      width: "75% container"
    }
  }
});
</script><script type="text/javascript" src="https://cdn.mathjax.org/mathjax/latest/MathJax.js"></script>
<link
 href="doxygen.css" rel="stylesheet" type="text/css" />
<!-- Additional javascript for drawing charts. -->
<script type="text/javascript" src="highcharts.js"></script>
<script type="text/javascript" src="highcharts-data.js"></script>
<script type="text/javascript" src="highcharts-exporting.js"></script>
<script type="text/javascript" src="chart.js"></script>
<script type="text/javascript" src="hana.js"></script>
</head>
<body>
<div id="top"><!-- do not remove this div, it is closed by doxygen! -->
<div id="titlearea">
<table cellspacing="0" cellpadding="0">
<tbody>
<tr style="height: 56px;">
 <td id="projectlogo"><img alt="Logo" src="Boost.png"/></td>
 <td style="padding-left: 0.5em;">
  <div id="projectname">Boost.Hana
   <span id="projectnumber">1.5.0</span>
  </div>
  <div id="projectbrief">Your standard library for metaprogramming</div>
 </td>
  <td>        <div id="MSearchBox" class="MSearchBoxInactive">
      <span class="left">

  <img id="MSearchSelect" src="search/mag_sel.png"
            onmouseover="return searchBox.OnSearchSelectShow()"
            onmouseout="return searchBox.OnSearchSelectHide()"
            alt=""/>
        <input type="text" id="MSearchField" value="Search" accesskey="S"
            onfocus="searchBox.OnSearchFieldFocus(true)"
            onblur="searchBox.OnSearchFieldFocus(false)"
            onkeyup="searchBox.OnSearchFieldChange(event)"/>
        </span><span class="right">
          <a id="MSearchClose" href="javascript:searchBox.CloseResultsWindow()"><img id="MSearchCloseImg"
border="0" src="search/close.png" alt=""/></a>
```

```
        </span>
       </div>
</td>
</tr>
</tbody>
</table>
</div>
<!-- end header part -->
<!-- Generated by Doxygen 1.8.11 -->
<script type="text/javascript">
var searchBox = new SearchBox("searchBox", "search",false,'Search');
</script>
</div><!-- top -->
<div id="side-nav" class="ui-resizable side-nav-resizable">
 <div id="nav-tree">
    <div id="nav-tree-contents">
     <div id="nav-sync" class="sync"></div>
   </div>
 </div>
 <div id="splitbar" style="-moz-user-select:none;"
      class="ui-resizable-handle">
 </div>
</div>
<script type="text/javascript">
$(document).ready(function(){initNavTree('group__group-ext-mpl.html','');});
</script>
<div id="doc-content">
<!-- window showing the filter options -->
<div id="MSearchSelectWindow"
    onmouseover="return searchBox.OnSearchSelectShow()"
    onmouseout="return searchBox.OnSearchSelectHide()"
    onkeydown="return searchBox.OnSearchSelectKey(event)">
</div>

<!-- iframe showing the search results (closed by default) -->
<div id="MSearchResultsWindow">
<iframe src="javascript:void(0)" frameborder="0"
       name="MSearchResults" id="MSearchResults">
</iframe>
</div>

<div class="header">
 <div class="summary">
<a href="#nested-classes">Classes</a>  </div>
 <div class="headertitle">
<div class="title">Boost.MPL adapters<div class="ingroups"><a
 class="el" href="group__group-ext.html">External adapters</a></div></div>  </div>
</div><!--header-->
```

<h2 class="groupheader">Description</h2>
Adapters for Boost.MPL containers.
<table class="memberdecls">
<tr class="heading"><td colspan="2"><h2 class="groupheader">
Classes</h2></td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1integral__c.html">boost::mpl::integral_c< T, v ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for IntegralConstants
from the Boost.MPL. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
 class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1list.html">boost::mpl::list< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL lists.
More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
<tr class="memitem:"><td class="memItemLeft" align="right" valign="top">struct </td><td
class="memItemRight" valign="bottom"><a class="el"
href="structboost_1_1mpl_1_1vector.html">boost::mpl::vector< T ></td></tr>
<tr class="memdesc:"><td class="mdescLeft"> </td><td class="mdescRight">Adapter for Boost.MPL
vectors. More...
</td></tr>
<tr class="separator:"><td class="memSeparator" colspan="2"> </td></tr>
</table>
<!-- contents -->
<!-- doc-content -->
<!--
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-->
<!-- boost-no-inspect -->
<!-- HTML footer for doxygen 1.8.9.1-->
<!-- start footer part -->
<!-- id is needed for treeview function! -->

</body>
</html>
This is an attempt to acknowledge early contributions to the garbage
collector. Later contributions should instead be mentioned in
README.changes.

HISTORY -

Early versions of this collector were developed as a part of research
projects supported in part by the National Science Foundation
and the Defense Advance Research Projects Agency.

The garbage collector originated as part of the run-time system for
the Russell programming language implementation. The first version of the
garbage collector was written primarily by Al Demers. It was then refined
and mostly rewritten, primarily by Hans-J. Boehm, at Cornell U.,
the University of Washington, Rice University (where it was first used for
C and assembly code), Xerox PARC, SGI, and HP Labs. However, significant
contributions have also been made by many others.

Some other contributors:

More recent contributors are mentioned in the modification history in
README.changes. My apologies for any omissions.

The SPARC specific code was
originally contributed by Mark Weiser.
The Encore Multimax modifications were supplied by
Kevin Kenny (kenny@m.cs.uiuc.edu). The adaptation to the IBM PC/RT is largely
due to Vernon Lee, on machines made available to Rice by IBM.
Much of the HP specific code and a number of good suggestions for improving the
generic code are due to Walter Underwood.
Robert Brazile (brazile@diamond.bbn.com) originally supplied the ULTRIX code.
Al Dosser (dosser@src.dec.com) and Regis Cridlig (Regis.Cridlig@cl.cam.ac.uk)
subsequently provided updates and information on variation between ULTRIX
systems. Parag Patel (parag@netcom.com) supplied the A/UX code.
Jesper Peterson(jep@mtiame.mtia.oz.au), Michel Schinz, and
Martin Tauchmann (martintauchmann@bigfoot.com) supplied the Amiga port.
Thomas Funke (thf@zelator.in-berlin.de(?)) and
Brian D.Carlstrom (bdc@clark.lcs.mit.edu) supplied the NeXT ports.
Douglas Steel (doug@wg.icl.co.uk) provided ICL DRS6000 code.
Bill Janssen (janssen@parc.xerox.com) supplied
the SunOS dynamic loader
specific code. Manuel Serrano (serrano@cornas.inria.fr) supplied linux and
Sony News specific code. Al Dosser provided Alpha/OSF/1 code. He and
Dave Detlefs(detlefs@src.dec.com) also provided several generic bug fixes.
Alistair G. Crooks(agc@uts.amdahl.com) supplied the NetBSD and 386BSD ports.
Jeffrey Hsu (hsu@soda.berkeley.edu) provided the FreeBSD port.
Brent Benson (brent@jade.ssd.csd.harris.com) ported the collector to
a Motorola 88K processor running CX/UX (Harris NightHawk).
Ari Huttunen (Ari.Huttunen@hut.fi) generalized the OS/2 port to
nonIBM development environments (a nontrivial task).
Patrick Beard (beard@cs.ucdavis.edu) provided the initial MacOS port.
David Chase, then at Olivetti Research, suggested several improvements.
Scott Schwartz (schwartz@groucho.cse.psu.edu) supplied some of the
code to save and print call stacks for leak detection on a SPARC.

Jesse Hull and John Ellis supplied the C++ interface code.
Zhong Shao performed much of the
 experimentation that led to the
current typed allocation facility. (His dynamic type inference code hasn't
made it into the released version of the collector, yet.)
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-->

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=======

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<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
 "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">

<html xmlns="http://www.w3.org/1999/xhtml">
 <head>
  <meta http-equiv="Content-Type" content="text/html; charset=utf-8" />

  <title><no title> — Boost.HigherOrderFunctions 0.6 documentation</title>

  <link rel="stylesheet" href="_static/boostbook.css" type="text/css" />
  <link rel="stylesheet" href="_static/pygments.css" type="text/css" />

```
  <script type="text/javascript">
    var DOCUMENTATION_OPTIONS = {
      URL_ROOT:    './',
      VERSION:     '0.6',
      COLLAPSE_INDEX: false,
      FILE_SUFFIX: '.html',
      HAS_SOURCE:  true,
      SOURCELINK_SUFFIX: '.txt'
    };
  </script>
  <script type="text/javascript" src="_static/jquery.js"></script>
  <script type="text/javascript" src="_static/underscore.js"></script>
  <script type="text/javascript" src="_static/doctools.js"></script>
  <link
 rel="index" title="Index" href="genindex.html" />
  <link rel="search" title="Search" href="search.html" />
 </head>
 <body role="document">
<table cellpadding="2" width="100%"><tr>
<td valign="top"><img alt="Boost C++ Libraries" width="277" height="86"src="_static/boost.png"></td>
</tr></table>

<div class="spirit-nav">
<a accesskey="p"  ><img src="_static/prev.png" alt="Prev"></a>
<a accesskey="u" href="doc/index.html"><img src="_static/up.png" alt="Up"></a>
<a accesskey="h" href="doc/index.html"><img src="_static/home.png" alt="Home"></a>
<a accesskey="n"  ><img src="_static/next.png" alt="Next"></a>
</div>


  <div class="document">
 <div class="chapter">
    <div class="body" role="main">

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```

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<table xmlns:rev="http://www.cs.rpi.edu/~gregod/boost/tools/doc/revision" width="100%"><tr>
<td align="left"></td>
<td align="right">
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target="_top">http://www.boost.org/LICENSE_1_0.txt)

</td>
</tr></table>

</body>
</html>
<!DOCTYPE html>
<html>
<head></head>
<body>
<h3>
Copyright Test
</h3>

1963, 1964, 1965 Jane Doe

2018 Joe Blow, John Coe

```
    1977, 1985 Someone else
  </p>
 </body>
</html>
<?xml version="1.0" encoding="UTF-8"?>
<!DOCTYPE article PUBLIC "-//Boost//DTD BoostBook XML V1.0//EN"
"http://www.boost.org/tools/boostbook/dtd/boostbook.dtd">
<article id="copyright_test" last-revision="DEBUG MODE Date: 2000/12/20 12:00:00 $"
xmlns:xi="http://www.w3.org/2001/XInclude">
 <title>Copyright Test</title>
 <articleinfo>
  <copyright>
   <year>1963</year> <year>1964</year> <year>1965</year> <holder>Jane Doe</holder>
  </copyright>
  <copyright>
   <year>2018</year> <holder>Joe Blow, John Coe</holder>
  </copyright>
  <copyright>
   <year>1977</year> <year>1985</year> <holder>Someone else</holder>
  </copyright>
 </articleinfo>
</article>
```

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////

[#mpl]
MPL Support, <boost/mp11/mpl.hpp>

:toc:
:toc-title:
:idprefix:

The header `<boost/mp11/mpl.hpp>`, when included, defines the
necessary support infrastructure for `mp_list` and `std::tuple`
to be valid link:../../../../libs/mpl[MPL] sequences.

NOTE: `mpl.hpp` is not included by `<boost/mp11.hpp>`.
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#include <boost/mpl/fold.hpp>
#include <boost/mpl/push_back.hpp>
#include <boost/mpl/quote.hpp>
#include <boost/mpl/vector.hpp>

template <typename State, typename X>
struct f { using type = X; };

struct state { };

template <int i>
struct t { };

using vector = <%= mpl_vector((1..input_size).to_a.map { |n| "t<#{n}>" }) %>;

using result = boost::mpl::fold<vector, state, boost::mpl::quote2<f>>::type;

int main() { }
//
//
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// http://www.boost.org/LICENSE_1_0.txt)
//
// See http://www.boost.org/libs/interprocess for documentation.
//
//

#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
#define BOOST_INTERPROCESS_DETAIL_MPL_HPP

```
#ifndef BOOST_CONFIG_HPP
#  include <boost/config.hpp>
#endif
#
#if defined(BOOST_HAS_PRAGMA_ONCE)
#  pragma once
#endif

#include <cstddef>

namespace boost {
namespace interprocess {
namespace ipcdetail {

template <class T, T val>
struct integral_constant
{
  static const T value = val;
  typedef integral_constant<T,val> type;
};

template< bool C_ >
struct bool_ : integral_constant<bool, C_>
{
  static const bool value = C_;
};

typedef bool_<true>        true_;
typedef
 bool_<false>       false_;

typedef true_  true_type;
typedef false_ false_type;

typedef char yes_type;
struct no_type
{
  char padding[8];
};

template <bool B, class T = void>
struct enable_if_c {
 typedef T type;
};

template <class T>
struct enable_if_c<false, T> {};
```

```
template <class Cond, class T = void>
struct enable_if : public enable_if_c<Cond::value, T> {};

template <class Cond, class T = void>
struct disable_if : public enable_if_c<!Cond::value, T> {};

template<
    bool C
  , typename T1
  , typename T2
  >
struct if_c
{
  typedef T1 type;
};

template<
    typename T1
  , typename T2
  >
struct if_c<false,T1,T2>
{
  typedef T2 type;
};

template<
    typename T1
  , typename T2
  , typename T3
  >
struct if_
{
 typedef typename if_c<0 != T1::value, T2, T3>::type type;
};


template<std::size_t S>
struct ls_zeros
{
 static const std::size_t value = (S & std::size_t(1)) ? 0 : (1u + ls_zeros<(S >> 1u)>::value);
};

template<>
struct ls_zeros<0>
{
  static const std::size_t value = 0;
};
```

```
template<>
struct ls_zeros<1>
{
  static const std::size_t value = 0;
};

}  //namespace ipcdetail {
}  //namespace interprocess {
}  //namespace boost {

#endif   //#ifndef BOOST_INTERPROCESS_DETAIL_MPL_HPP
/*
*
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* Boost Software License, Version 1.0. (See accompanying file
* LICENSE_1_0.txt or copy at http://www.boost.org/LICENSE_1_0.txt)
*
*/

#include "licence_info.hpp"
#include "bcp_imp.hpp"
#include "fileview.hpp"
#include <fstream>
#include <iomanip>
#include <cstring>
#include <stdexcept>
#include <boost/lexical_cast.hpp>
#include <boost/filesystem/operations.hpp>
#include <boost/throw_exception.hpp>

//
// split_path is a small helper for outputting a path name,
// complete with a link to that path:
//
struct split_path
{
  const fs::path& root;
  const fs::path& file;
  split_path(const fs::path& r, const fs::path& f)
     : root(r), file(f){}
private:
  split_path& operator=(const split_path&);
};

std::ostream& operator << (std::ostream& os, const split_path& p)
{
  os << "<a href=\"" << (p.root / p.file).string() << "\">" << p.file.string() << "</a>";
```

```
 return os;
}

std::string
 make_link_target(const std::string& s)
{
 // convert an arbitrary string into something suitable
 // for an <a> name:
 std::string result;
 for(unsigned i = 0; i < s.size(); ++i)
 {
   result.append(1, static_cast<std::string::value_type>(std::isalnum(s[i]) ? s[i] : '_'));
 }
 return result;
}


void bcp_implementation::output_license_info()
{
 std::pair<const license_info*, int> licenses = get_licenses();

 std::map<int, license_data>::const_iterator i, j;
 i = m_license_data.begin();
 j = m_license_data.end();

 std::ofstream os(m_dest_path.string().c_str());
 if(!os)
 {
   std::string msg("Error opening ");
   msg += m_dest_path.string();
   msg += " for output.";
   std::runtime_error e(msg);
   boost::throw_exception(e);
 }
 os <<
   "<!DOCTYPE HTML PUBLIC \"-//W3C//DTD HTML 4.0 Transitional//EN\">\n"
   "<html>\n"
   "<head>\n"
   "<title>Boost Licence Dependency Information";
 if(m_module_list.size() == 1)
  {
   os << " for " << *(m_module_list.begin());
 }
 os <<
   "</title>\n"
   "</head>\n"
   "<body>\n"
   "<H1>Boost Licence Dependency Information";
```

```
if(m_module_list.size() == 1)
{
  os << " for " << *(m_module_list.begin());
}
os <<
  "</H1>\n"
  "<H2>Contents</h2>\n"
  "<pre><a href=\"#input\">Input Information</a>\n";
if(!m_bsl_summary_mode)
  os << "<a href=\"#summary\">Licence Summary</a>\n";
os << "<a href=\"#details\">Licence Details</a>\n";

while(i != j)
{
  // title:
  os << "   <A href=\"#" << make_link_target(licenses.first[i->first].license_name)
     << "\">" << licenses.first[i->first].license_name << "</a>\n";
  ++i;
}

os << "<a href=\"#files\">Files with no recognised license</a>\n"
  "<a href=\"#authors\">Files with no recognised copyright holder</a>\n";
if(!m_bsl_summary_mode)
{
  os <<
  "Moving to the Boost Software License...\n"
  "  <a href=\"#bsl-converted\">Files
that can be automatically converted to the Boost Software License</a>\n"
  "  <a href=\"#to-bsl\">Files that can be manually converted to the Boost Software License</a>\n"
  "  <a href=\"#not-to-bsl\">Files that can <b>NOT</b> be moved to the Boost Software License</a>\n"
  "  <a href=\"#need-bsl-authors\">Authors we need to move to the Boost Software License</a>\n"
  "<a href=\"#copyright\">Copyright Holder Information</a>\n";
}
os <<
  "<a href=\"#depend\">File Dependency Information</a>\n"
  "</pre>";

//
// input Information:
//
os << "<a name=\"input\"></a><h2>Input Information</h2>\n";
if(m_scan_mode)
  os << "<P>The following files were scanned for boost dependencies:<BR>";
else
  os << "<P>The following Boost modules were checked:<BR>";

std::list<std::string>::const_iterator si = m_module_list.begin();
std::list<std::string>::const_iterator sj = m_module_list.end();
```

```
 while(si != sj)
 {
   os
<< *si << "<BR>";
   ++si;
 }
 os << "</p><p>The Boost path was: <code>" << m_boost_path.string() << "</code></P>";
 //
 // extract the boost version number from the boost directory tree,
 // not from this app (which may have been built from a previous
 // version):
 //
 fileview version_file(m_boost_path / "boost/version.hpp");
 static const boost::regex version_regex(
   "^[[:blank:]]*#[[:blank:]]*define[[:blank:]]+BOOST_VERSION[[:blank:]]+(\\d+)");
 boost::cmatch what;
 if(boost::regex_search(version_file.begin(), version_file.end(), what, version_regex))
 {
   int version = boost::lexical_cast<int>(what.str(1));
   os << "<p>The Boost version is: " << version / 100000 << "." << version / 100 % 1000 << "." << version % 100
<< "</P>\n";
 }

 //
 // output each license:
 //
 i = m_license_data.begin();
 j = m_license_data.end();
 if(!m_bsl_summary_mode)
 {
   //
   // start with the summary:
   //
   os << "<a name=\"summary\"></a><h2>Licence
Summary</h2>\n";
   while(i != j)
   {
     // title:
     os <<
       "<H3>" << licenses.first[i->first].license_name << "</H3>\n";
     // license text:
     os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
     // Copyright holders:
     os << "<P>This license is used by " << i->second.authors.size()
       << " authors and " << i->second.files.size()
       << " files <a href=\"#" << make_link_target(licenses.first[i->first].license_name) << "\">(see details)</a>";
     os << "</P></BLOCKQUOTE>\n";
     ++i;
```

```
    }
  }
  //
  // and now the details:
  //
  i = m_license_data.begin();
  j = m_license_data.end();
  int license_index = 0;
  os << "<a name=\"details\"></a><h2>Licence Details</h2>\n";
  while(i != j)
  {
    // title:
    os <<
      "<H3><A name=\"" << make_link_target(licenses.first[i->first].license_name)
      << "\"></a>" << licenses.first[i->first].license_name
<< "</H3>\n";
    // license text:
    os << "<BLOCKQUOTE>" << licenses.first[i->first].license_text << "</BLOCKQUOTE>";
    if(!m_bsl_summary_mode || (license_index >= 3))
    {
      // Copyright holders:
      os << "<P>This license is used by the following " << i->second.authors.size() << " copyright
holders:</P>\n<BLOCKQUOTE><P>";
      std::set<std::string>::const_iterator x, y;
      x = i->second.authors.begin();
      y = i->second.authors.end();
      while(x != y)
      {
        os << *x << "<BR>\n";
        ++x;
      }
      os << "</P></BLOCKQUOTE>\n";
      // Files using this license:
      os << "<P>This license applies to the following " << i->second.files.size() << "
files:</P>\n<BLOCKQUOTE><P>";
      std::set<fs::path, path_less>::const_iterator m, n;
      m = i->second.files.begin();
      n = i->second.files.end();
      while(m != n)
      {
        os << split_path(m_boost_path,
 *m) << "<br>\n";
        ++m;
      }
      os << "</P></BLOCKQUOTE>\n";
    }
    else
    {
```

```
      os << "<P>This license is used by " << i->second.authors.size() << " authors (list omitted for brevity).</P>\n";
      os << "<P>This license applies to " << i->second.files.size() << " files (list omitted for brevity).</P>\n";
    }
    ++license_index;
    ++i;
  }
  //
  // Output list of files not found to be under license control:
  //
  os << "<h2><a name=\"files\"></a>Files With No Recognisable Licence</h2>\n"
    "<P>The following " << m_unknown_licenses.size() << " files had no recognisable license
information:</P><BLOCKQUOTE><P>\n";
  std::set<fs::path, path_less>::const_iterator i2, j2;
  i2 = m_unknown_licenses.begin();
  j2 = m_unknown_licenses.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  //
  // Output list of files with no found
 copyright holder:
  //
  os << "<h2><a name=\"authors\"></a>Files With No Recognisable Copyright Holder</h2>\n"
    "<P>The following " << m_unknown_authors.size() << " files had no recognisable copyright
holder:</P>\n<BLOCKQUOTE><P>";
  i2 = m_unknown_authors.begin();
  j2 = m_unknown_authors.end();
  while(i2 != j2)
  {
    os << split_path(m_boost_path, *i2) << "<br>\n";
    ++i2;
  }
  os << "</p></BLOCKQUOTE>";
  if(!m_bsl_summary_mode)
  {
    //
    // Output list of files that have been moved over to the Boost
    // Software License, along with enough information for human
    // verification.
    //
    os << "<h2><a name=\"bsl-converted\"></a>Files that can be automatically converted to the Boost Software
License</h2>\n"
       << "<P>The following " << m_converted_to_bsl.size() << " files can be automatically converted to the Boost
Software License, but require manual verification before they can be committed to CVS:</P>\n";
    if (!m_converted_to_bsl.empty())
```

```
    {
      typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
        ::const_iterator conv_iterator;
      conv_iterator i = m_converted_to_bsl.begin(),
                    ie = m_converted_to_bsl.end();
      int file_num = 1;
      while (i != ie)
      {
        os << "<P>[" << file_num << "] File: <tt>" << split_path(m_boost_path, i->first)
          << "</tt><br>\n<table border=\"1\">\n  <tr>\n    <td><pre>"
          << i->second.first << "</pre></td>\n    <td><pre>"
          << i->second.second << "</pre></td>\n  </tr>\n</table>\n";
        ++i;
        ++file_num;
      }
    }
    //
    // Output list of files that could be moved over to the Boost Software License
    //
    os << "<h2><a name=\"to-bsl\"></a>Files that could be converted to the Boost Software License</h2>\n"
    "<P>The following " << m_can_migrate_to_bsl.size() << " files could be manually
 converted to the Boost Software License, but have not yet been:</P>\n<BLOCKQUOTE><P>";
    i2 = m_can_migrate_to_bsl.begin();
    j2 = m_can_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of files that can not be moved over to the Boost Software License
    //
    os << "<h2><a name=\"not-to-bsl\"></a>Files that can NOT be converted to the Boost Software
License</h2>\n"
    "<P>The following " << m_cannot_migrate_to_bsl.size() << " files cannot be converted to the Boost Software
License because we need the permission of more authors:</P>\n<BLOCKQUOTE><P>";
    i2 = m_cannot_migrate_to_bsl.begin();
    j2 = m_cannot_migrate_to_bsl.end();
    while(i2 != j2)
    {
      os << split_path(m_boost_path, *i2) << "<br>\n";
      ++i2;
    }
    os << "</p></BLOCKQUOTE>";
    //
    // Output list of authors that
```

```
 we need permission for to move to the BSL
    //
    os << "<h2><a name=\"need-bsl-authors\"></a>Authors we need for the BSL</h2>\n"
      "<P>Permission of the following authors is needed before we can convert to the Boost Software License. The
list of authors that have given their permission is contained in <code>more/blanket-
permission.txt</code>.</P>\n<BLOCKQUOTE><P>";
    std::copy(m_authors_for_bsl_migration.begin(), m_authors_for_bsl_migration.end(),
          std::ostream_iterator<std::string>(os, "<br>\n"));
    os << "</p></BLOCKQUOTE>";
    //
    // output a table of copyright information:
    //
    os << "<H2><a name=\"copyright\"></a>Copyright Holder Information</H2><table border=\"1\">\n";
    std::map<std::string, std::set<fs::path, path_less> >::const_iterator ad, ead;
    ad = m_author_data.begin();
    ead = m_author_data.end();
    while(ad != ead)
    {
      os << "<tr><td>" << ad->first << "</td><td>";
      std::set<fs::path,
 path_less>::const_iterator fi, efi;
      fi = ad->second.begin();
      efi = ad->second.end();
      while(fi != efi)
      {
        os << split_path(m_boost_path, *fi) << " ";
        ++fi;
      }
      os << "</td></tr>\n";
      ++ad;
    }
    os << "</table>\n";
 }

 //
 // output file dependency information:
 //
 os << "<H2><a name=\"depend\"></a>File Dependency Information</H2><BLOCKQUOTE><pre>\n";
 std::map<fs::path, fs::path, path_less>::const_iterator dep, last_dep;
 std::set<fs::path, path_less>::const_iterator fi, efi;
 fi = m_copy_paths.begin();
 efi = m_copy_paths.end();
 // if in summary mode, just figure out the "bad" files and print those only:
 std::set<fs::path, path_less> bad_paths;
 if(m_bsl_summary_mode)
 {
   bad_paths.insert(m_unknown_licenses.begin(), m_unknown_licenses.end());
   bad_paths.insert(m_unknown_authors.begin(), m_unknown_authors.end());
```

```
    bad_paths.insert(m_can_migrate_to_bsl.begin(),
m_can_migrate_to_bsl.end());
    bad_paths.insert(m_cannot_migrate_to_bsl.begin(), m_cannot_migrate_to_bsl.end());
    typedef std::map<fs::path, std::pair<std::string, std::string>, path_less>
      ::const_iterator conv_iterator;
    conv_iterator i = m_converted_to_bsl.begin(),
                  ie = m_converted_to_bsl.end();
    while(i != ie)
    {
      bad_paths.insert(i->first);
      ++i;
    }
    fi = bad_paths.begin();
    efi = bad_paths.end();
    os << "<P>For brevity, only files not under the BSL are shown</P>\n";
  }
  while(fi != efi)
  {
    os << split_path(m_boost_path, *fi);
    dep = m_dependencies.find(*fi);
    last_dep = m_dependencies.end();
    std::set<fs::path, path_less> seen_deps;
    if (dep != last_dep)
      while(true)
      {
        os << " -> ";
        if(fs::exists(m_boost_path / dep->second))
          os << split_path(m_boost_path, dep->second);
        else if(fs::exists(dep->second))
           os << split_path(fs::path(), dep->second);
        else
          os << dep->second.string();
        if(seen_deps.find(dep->second) != seen_deps.end())
          {
            os << " <I>(Circular dependency!)</I>";
            break; // circular dependency!!!
          }
        seen_deps.insert(dep->second);
        last_dep = dep;
        dep = m_dependencies.find(dep->second);
        if((dep == m_dependencies.end()) || (0 == compare_paths(dep->second, last_dep->second)))
          break;
      }
    os << "\n";
    ++fi;
  }
  os << "</pre></BLOCKQUOTE>\n";
```

```
 os << "</body></html>\n";

 if(!os)
 {
   std::string msg("Error writing to ");
   msg += m_dest_path.string();
   msg += ".";
   std::runtime_error e(msg);
   boost::throw_exception(e);
 }

}
[/============================================================================
 Boost.Geometry (aka GGL, Generic Geometry Library)

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```

1.4 minizip 1.01

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1.5 libdaemon 0.14

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1.11 avahi 0.8

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1.13 pcre 8.45

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End

1.14 libssh 0.9.6

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1.15 ncurses 6.3

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-- vile:txtmode fc=72
-- $Id: COPYING,v 1.10 2021/01/01 09:54:30 tom Exp $
Upstream source https://invisible-island.net/ncurses/Ada95.html

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On Debian systems, the complete text of the GNU General
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-- vile: txtmode file-encoding=utf-8
Upstream source https://invisible-island.net/ncurses/ncurses-examples.html

Current ncurses maintainer: Thomas Dickey <dickey@invisible-island.net>

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-- vile: txtmode file-encoding=utf-8

1.16 tiny-xml 2.6.2

1.16.1 Available under license :

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

/** @mainpage

<h1> TinyXML </h1>

TinyXML is a simple, small, C++ XML parser that can be easily
integrated into other programs.

<h2> What it does. </h2>

In brief, TinyXML parses an XML document, and builds from that a
Document Object Model (DOM) that can be read, modified, and saved.

XML stands for "eXtensible Markup Language." It allows you to create
your own document markups. Where HTML does a very good job of marking
documents for browsers, XML allows you to define any kind of document
markup, for example a document that describes a "to do" list for an
organizer application. XML is a very structured and convenient format.
All those random file formats created to store application data can
all be replaced with XML. One parser for everything.

The best place for the complete, correct, and quite frankly hard to
read spec is at
http://www.w3.org/TR/2004/REC-xml-20040204/.
 An intro to XML
(that I really like) can be found at

http://skew.org/xml/tutorial.

There are different ways to access and interact with XML data.
TinyXML uses a Document Object Model (DOM), meaning the XML data is parsed
into a C++ objects that can be browsed and manipulated, and then
written to disk or another output stream. You can also construct an XML document
from scratch with C++ objects and write this to disk or another output
stream.

TinyXML is designed to be easy and fast to learn. It is two headers
and four cpp files. Simply add these to your project and off you go.
There is an example file - xmltest.cpp - to get you started.

TinyXML is released under the ZLib license,
so you can use it in open source or commercial code. The details
of the license are at the top of every source file.

TinyXML attempts to be a flexible parser, but with truly correct and
compliant XML output. TinyXML should compile on
 any reasonably C++
compliant system. It does not rely on exceptions or RTTI. It can be
compiled with or without STL support. TinyXML fully supports
the UTF-8 encoding, and the first 64k character entities.

<h2> What it doesn't do. </h2>

TinyXML doesn't parse or use DTDs (Document Type Definitions) or XSLs
(eXtensible Stylesheet Language.) There are other parsers out there
(check out www.sourceforge.org, search for XML) that are much more fully
featured. But they are also much bigger, take longer to set up in
your project, have a higher learning curve, and often have a more
restrictive license. If you are working with browsers or have more
complete XML needs, TinyXML is not the parser for you.

The following DTD syntax will not parse at this time in TinyXML:

@verbatim
 <!DOCTYPE Archiv [
  <!ELEMENT Comment (#PCDATA)>
 ]>
@endverbatim

because TinyXML sees this as a !DOCTYPE node with an illegally
embedded !ELEMENT node. This may be addressed in the future.

<h2> Tutorials. </h2>

For
the impatient, here is a tutorial to get you going. A great way to get started,
but it is worth your time to read this (very short) manual completely.

- @subpage tutorial0

<h2> Code Status. </h2>

TinyXML is mature, tested code. It is very stable. If you find
bugs, please file a bug report on the sourceforge web site
(www.sourceforge.net/projects/tinyxml). We'll get them straightened
out as soon as possible.

There are some areas of improvement; please check sourceforge if you are
interested in working on TinyXML.

<h2> Related Projects </h2>

TinyXML projects you may find useful! (Descriptions provided by the projects.)

 TinyXPath (http://tinyxpath.sourceforge.net). TinyXPath is a small footprint
XPath syntax decoder, written in C++.
 TinyXML++ (http://code.google.com/p/ticpp/). TinyXML++ is a completely new
interface to TinyXML that uses MANY of the C++ strengths. Templates,
exceptions, and much better error handling.

<h2>
Features </h2>

<h3> Using STL </h3>

TinyXML can be compiled to use or not use STL. When using STL, TinyXML
uses the std::string class, and fully supports std::istream, std::ostream,
operator<<, and operator>>. Many API methods have both 'const char*' and
'const std::string&' forms.

When STL support is compiled out, no STL files are included whatsoever. All
the string classes are implemented by TinyXML itself. API methods
all use the 'const char*' form for input.

Use the compile time #define:

TIXML_USE_STL

to compile one version or the other. This can be passed by the compiler,
or set as the first line of "tinyxml.h".

Note: If compiling the test code in Linux, setting the environment
variable TINYXML_USE_STL=YES/NO will control STL compilation. In the
Windows project file, STL and non STL targets are provided. In your project,
It's probably easiest to add the line "#define TIXML_USE_STL" as the first
line of tinyxml.h.

<h3> UTF-8 </h3>

TinyXML supports UTF-8 allowing
to manipulate XML files in any language. TinyXML
also supports "legacy mode" - the encoding used before UTF-8 support and
probably best described as "extended ascii".

Normally, TinyXML will try to detect the correct encoding and use it. However,
by setting the value of TIXML_DEFAULT_ENCODING in the header file, TinyXML
can be forced to always use one encoding.

TinyXML will assume Legacy Mode until one of the following occurs:

 If the non-standard but common "UTF-8 lead bytes" (0xef 0xbb 0xbf)
begin the file or data stream, TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has an encoding="UTF-8", then
TinyXML will read it as UTF-8.
 If the declaration tag is read, and it has no encoding specified, then TinyXML will
read it as UTF-8.
 If the declaration tag is read, and it has an encoding="something else", then TinyXML
will read it as Legacy Mode. In legacy mode, TinyXML will work as it did before. It's

not clear what that mode does exactly, but old content should keep working.
 Until one of the above criteria is met, TinyXML runs in Legacy Mode.

What happens if the encoding is incorrectly set or detected? TinyXML will try
to read and pass through text seen as improperly encoded. You may get some strange results or
mangled characters. You may want to force TinyXML to the correct mode.

You may force TinyXML to Legacy Mode by using LoadFile(TIXML_ENCODING_LEGACY) or
LoadFile(filename, TIXML_ENCODING_LEGACY). You may force it to use legacy mode all
the time by setting TIXML_DEFAULT_ENCODING = TIXML_ENCODING_LEGACY. Likewise, you may
force it to TIXML_ENCODING_UTF8 with the same technique.

For English users, using English XML, UTF-8 is the same as low-ASCII. You
don't need to be aware of UTF-8 or change your code in any way. You can think
of UTF-8 as a "superset" of ASCII.

UTF-8 is not a double byte format - but it is a standard encoding of Unicode!
TinyXML

does not use or directly support wchar, TCHAR, or Microsoft's _UNICODE at this time. It is common to see the term "Unicode" improperly refer to UTF-16, a wide byte encoding of unicode. This is a source of confusion.

For "high-ascii" languages - everything not English, pretty much - TinyXML can handle all languages, at the same time, as long as the XML is encoded in UTF-8. That can be a little tricky, older programs and operating systems tend to use the "default" or "traditional" code page. Many apps (and almost all modern ones) can output UTF-8, but older or stubborn (or just broken) ones still output text in the default code page.

For example, Japanese systems traditionally use SHIFT-JIS encoding. Text encoded as SHIFT-JIS can not be read by TinyXML. A good text editor can import SHIFT-JIS and then save as UTF-8.

The Skew.org link does a great job covering the encoding issue.

The test file "utf8test.xml" is an XML containing English, Spanish, Russian, and Simplified Chinese. (Hopefully they are translated correctly). The file "utf8test.gif" is a screen capture of the XML file, rendered in IE. Note that if you don't have the correct fonts (Simplified Chinese or Russian) on your system, you won't see output that matches the GIF file even if you can parse it correctly. Also note that (at least on my Windows machine) console output is in a Western code page, so that Print() or printf() cannot correctly display the file. This is not a bug in TinyXML - just an OS issue. No data is lost or destroyed by TinyXML. The console just doesn't render UTF-8.

<h3> Entities </h3>
TinyXML recognizes the pre-defined "character entities", meaning special characters. Namely:

@verbatim
 & &
 < <
 > >
 " "
 ' '
@endverbatim

These are recognized when the XML document is read, and translated to there UTF-8 equivalents. For instance, text with the XML of:

@verbatim
 Far & Away
@endverbatim

will have the Value()
of "Far & Away" when queried from the TiXmlText object,
and will be written back to the XML stream/file as an ampersand. Older versions
of TinyXML "preserved" character entities, but the newer versions will translate
them into characters.

Additionally, any character can be specified by its Unicode code point:
The syntax " " or " " are both to the non-breaking space characher.

<h3> Printing </h3>
TinyXML can print output in several different ways that all have strengths and limitations.

- Print(FILE*). Output to a std-C stream, which includes all C files as well as stdout.
 - "Pretty prints", but you don't have control over printing options.
 - The output is streamed directly to the FILE object, so there is no memory overhead
   in the TinyXML code.
 - used by Print() and SaveFile()

- operator<<. Output to a c++ stream.
 - Integrates with standart C++ iostreams.
 - Outputs in "network printing" mode without line breaks. Good for network transmission
   and moving XML
 between C++ objects, but hard for a human to read.

- TiXmlPrinter. Output to a std::string or memory buffer.
 - API is less concise
 - Future printing options will be put here.
 - Printing may change slightly in future versions as it is refined and expanded.

<h3> Streams </h3>
With TIXML_USE_STL on TinyXML supports C++ streams (operator <<,>>) streams as well
as C (FILE*) streams. There are some differences that you may need to be aware of.

C style output:
 - based on FILE*
 - the Print() and SaveFile() methods

 Generates formatted output, with plenty of white space, intended to be as
 human-readable as possible. They are very fast, and tolerant of ill formed
 XML documents. For example, an XML document that contains 2 root elements
 and 2 declarations, will still print.

C style input:
 - based on FILE*
 - the Parse() and LoadFile() methods

 A fast, tolerant read. Use whenever you don't need the C++ streams.

C++ style output:
- based on std::ostream
- operator<<

Generates
condensed output, intended for network transmission rather than
readability. Depending on your system's implementation of the ostream class,
these may be somewhat slower. (Or may not.) Not tolerant of ill formed XML:
a document should contain the correct one root element. Additional root level
elements will not be streamed out.

C++ style input:
- based on std::istream
- operator>>

Reads XML from a stream, making it useful for network transmission. The tricky
part is knowing when the XML document is complete, since there will almost
certainly be other data in the stream. TinyXML will assume the XML data is
complete after it reads the root element. Put another way, documents that
are ill-constructed with more than one root element will not read correctly.
Also note that operator>> is somewhat slower than Parse, due to both
implementation of the STL and limitations of TinyXML.

<h3> White space </h3>
The world simply does not agree on whether white space should be kept,
or condensed.
For example, pretend the '_' is a space, and look at "Hello____world". HTML, and
at least some XML parsers, will interpret this as "Hello_world". They condense white
space. Some XML parsers do not, and will leave it as "Hello____world". (Remember
to keep pretending the _ is a space.) Others suggest that __Hello___world__ should become
Hello___world.

It's an issue that hasn't been resolved to my satisfaction. TinyXML supports the
first 2 approaches. Call TiXmlBase::SetCondenseWhiteSpace(bool) to set the desired behavior.
The default is to condense white space.

If you change the default, you should call TiXmlBase::SetCondenseWhiteSpace(bool)
before making any calls to Parse XML data, and I don't recommend changing it after
it has been set.

<h3> Handles </h3>

Where browsing an XML document in a robust way, it is important to check
for null returns from method calls. An error safe implementation can
generate a lot of code like:

@verbatim
TiXmlElement* root = document.FirstChildElement(
 "Document");
if (root)
{
 TiXmlElement* element = root->FirstChildElement("Element");
 if (element)
 {
  TiXmlElement* child = element->FirstChildElement("Child");
  if (child)
  {
   TiXmlElement* child2 = child->NextSiblingElement("Child");
   if (child2)
   {
    // Finally do something useful.
@endverbatim

Handles have been introduced to clean this up. Using the TiXmlHandle class,
the previous code reduces to:

@verbatim
TiXmlHandle docHandle(&document);
TiXmlElement* child2 = docHandle.FirstChild("Document").FirstChild("Element").Child("Child", 1
).ToElement();
if (child2)
{
 // do something useful
@endverbatim

Which is much easier to deal with. See TiXmlHandle for more information.

<h3> Row and Column tracking </h3>
Being able to track nodes and attributes back to their origin location
in source files can be very important for some applications. Additionally,
knowing where parsing errors occured in the original source can be very
time
 saving.

TinyXML can tracks the row and column origin of all nodes and attributes
in a text file. The TiXmlBase::Row() and TiXmlBase::Column() methods return
the origin of the node in the source text. The correct tabs can be
configured in TiXmlDocument::SetTabSize().

<h2> Using and Installing </h2>

To Compile and Run xmltest:

A Linux Makefile and a Windows Visual C++ .dsw file is provided.
Simply compile and run. It will write the file demotest.xml to your
disk and generate output on the screen. It also tests walking the
DOM by printing out the number of nodes found using different
techniques.

The Linux makefile is very generic and runs on many systems - it
is currently tested on mingw and
MacOSX. You do not need to run 'make depend'. The dependecies have been
hard coded.

<h3>Windows project file for VC6</h3>

tinyxml: tinyxml library, non-STL
tinyxmlSTL: tinyxml library, STL
tinyXmlTest: test app, non-STL
tinyXmlTestSTL: test app,
 STL

<h3>Makefile</h3>
At the top of the makefile you can set:

PROFILE, DEBUG, and TINYXML_USE_STL. Details (such that they are) are in
the makefile.

In the tinyxml directory, type "make clean" then "make". The executable
file 'xmltest' will be created.

<h3>To Use in an Application:</h3>

Add tinyxml.cpp, tinyxml.h, tinyxmlerror.cpp, tinyxmlparser.cpp, tinystr.cpp, and tinystr.h to your
project or make file. That's it! It should compile on any reasonably
compliant C++ system. You do not need to enable exceptions or
RTTI for TinyXML.

<h2> How TinyXML works. </h2>

An example is probably the best way to go. Take:
@verbatim
 <?xml version="1.0" standalone=no>
 <!-- Our to do list data -->
 <ToDo>
  <Item priority="1"> Go to the <bold>Toy store!</bold></Item>

<Item priority="2"> Do bills</Item>
</ToDo>
@endverbatim

Its not much of a To Do list, but it will do. To read this file
(say "demo.xml") you would create a document, and parse it in:
@verbatim
TiXmlDocument
doc("demo.xml");
doc.LoadFile();
@endverbatim

And its ready to go. Now lets look at some lines and how they
relate to the DOM.

@verbatim
<?xml version="1.0" standalone=no>
@endverbatim

The first line is a declaration, and gets turned into the
TiXmlDeclaration class. It will be the first child of the
document node.

This is the only directive/special tag parsed by TinyXML.
Generally directive tags are stored in TiXmlUnknown so the
commands wont be lost when it is saved back to disk.

@verbatim
<!-- Our to do list data -->
@endverbatim

A comment. Will become a TiXmlComment object.

@verbatim
<ToDo>
@endverbatim

The "ToDo" tag defines a TiXmlElement object. This one does not have
any attributes, but does contain 2 other elements.

@verbatim
<Item priority="1">
@endverbatim

Creates another TiXmlElement which is a child of the "ToDo" element.
This element has 1 attribute, with the name "priority" and the value
"1".

@verbatim
Go to the
@endverbatim

A TiXmlText.
This is a leaf node and cannot contain other nodes.
It is a child of the "Item" TiXmlElement.

@verbatim
<bold>
@endverbatim

Another TiXmlElement, this one a child of the "Item" element.

Etc.

Looking at the entire object tree, you end up with:
@verbatim
TiXmlDocument "demo.xml"
TiXmlDeclaration "version='1.0'" "standalone=no"
TiXmlComment " Our to do list data"
TiXmlElement "ToDo"
TiXmlElement "Item" Attribtutes: priority = 1
TiXmlText "Go to the "
TiXmlElement "bold"
TiXmlText "Toy store!"
TiXmlElement "Item" Attributes: priority=2
TiXmlText "Do bills"
@endverbatim

<h2> Documentation </h2>

The documentation is build with Doxygen, using the 'dox'
configuration file.

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<h2> References </h2>

The World Wide Web Consortium is the definitive standard body for
XML, and their web pages contain huge amounts of information.

The definitive spec:
http://www.w3.org/TR/2004/REC-xml-20040204/

I also recommend "XML Pocket Reference" by Robert Eckstein and published by
OReilly...the book that got
 the whole thing started.

<h2> Contributors, Contacts, and a Brief History </h2>

Thanks very much to everyone who sends suggestions, bugs, ideas, and
encouragement. It all helps, and makes this project fun. A special thanks
to the contributors on the web pages that keep it lively.

So many people have sent in bugs and ideas, that rather than list here
we try to give credit due in the "changes.txt" file.

TinyXML was originally written by Lee Thomason. (Often the "I" still
in the documentation.) Lee reviews changes and releases new versions,
with the help of Yves Berquin, Andrew Ellerton, and the tinyXml community.

We appreciate your suggestions, and would love to know if you
use TinyXML. Hopefully you will enjoy it and find it useful.
Please post questions, comments, file bugs, or contact us at:

www.sourceforge.net/projects/tinyxml

Lee Thomason, Yves Berquin, Andrew Ellerton
*/

Found in path(s):
* /tinyxml-2-6-2-1-tar-gz/tinyxml/readme.txt

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

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www.sourceforge.net/projects/tinyxml

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*/

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* /tinyxml-2-6-2-1-tar-gz/tinyxml/tinystr.cpp
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1.19 glibc 2.34

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1.22 util-linux 2.37.3

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NR START END SECTORS SIZE NAME UUID
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5 7936 12799 4864 2.4M
6 12544 16127 3584 1.8M

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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
```

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.23 mtd-utils 2.1.4

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1.24 zlib 1.2.13

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1.26 glib 2.70.5

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1.27 libxml2 2.10.2

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a storage or distribution medium does not bring the other work under
the scope of this
 License.

@item
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
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
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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
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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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 To apply these terms, attach the following notices to the library. It is
safest to attach them to the start of each source
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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.

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Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301,
USA.
@end
 smallexample

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necessary. Here is a sample; alter the names:

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`Frob' (a library for tweaking knobs) written by James Random Hacker.

@var{signature of Ty Coon}, 1 April 1990
Ty Coon, President of Vice
@end smallexample

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stating
that you changed the files and the date of any change.

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a storage or distribution medium does not bring
 the other work under
the scope of this License.

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under Section 2) in object code or executable form under the terms of
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@enumerate a
@item

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,

@item
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,

@item
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.)
@end enumerate

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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of preserving the free status of all derivatives of our free software and
of promoting the sharing and reuse of software generally.

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@ifinfo
@center
NO WARRANTY

@end ifinfo

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@end enumerate

@iftex
@heading END OF TERMS AND CONDITIONS
@end iftex
@ifinfo
@center END OF TERMS AND CONDITIONS

@end ifinfo

@page
@heading 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 the public, 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.

@smallexample
@var{one line to give the program's name

and a brief idea of what it does.}
Copyright (C) @var{yyyy} @var{name of author}

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@end smallexample

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:

@smallexample
Gnomovision version
69, Copyright (C) @var{year} @var{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.
@end smallexample

The hypothetical commands @samp{show w} and @samp{show c} should show
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commands you use may be called something other than @samp{show w} and
@samp{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 is a sample; alter the names:

@example
Yoyodyne, Inc., hereby disclaims all copyright interest in the program
`Gnomovision' (which makes passes at compilers) written by James Hacker.

@var{signature of Ty Coon}, 1 April 1989
Ty Coon, President of Vice
@end example

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1.31 sudo 1.9.13p3

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Ackeret, Matt
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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
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ek, Vtzslav
Coleman, Chris
Corzine, Deven T.
Cusack, Frank
Dai, Wei
Dill, David
Earickson, Jeff
Eckhardt, Drew
Edgington, Ben
Esipovich, Marc
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Faigon,
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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
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Holloway, Nick
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Hutchings, Ben
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Jackson, Brian
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Kadow, Kevin
Kasal, Stepan

Kienenberger, Mike
King, Dale
King, Michael
Klyachkin, Andrey
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Kopeek, Daniel
Kranenburg, Paul
Krause, David
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Larsen, Case
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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
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Miller, Todd C.
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Nieusma, Jeff
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Reid, Steve
Richards, Matt
Rossum, Guido van
Rouillard, John P.
Rowe, William A., Jr.
Roy, Alain
Ruusame, Elan
Ryabinkin, Eygene
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Sanders, Miguel
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Warburton, John
Webb, Kirk
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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
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Fontenelle, Rafael
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Hansen, Joe
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Hein, Jochen
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Kazik, Duan
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The following people designed the artwork used on the sudo website:

Shield logo: Badger, Trent
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1.32 attr 2.5.1-1

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* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/probe.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/probe-libblkid.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/probe.h
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Package: fstools
Version: 2022-06-02-93369be0-2
Depends: libc, librt, libpthread, ubox, ubi-utils
Source: package/system/fstools
SourceName: fstools
License: GPL-2.0
Section: base
SourceDateEpoch: 1660337211
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 22174
Description: OpenWrt filesystem tools

Found in path(s):
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-aarch64_cortex-a72/fstools/CONTROL/control
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*
* Authors: Artem Bityutskiy ( )
* Thomas Gleixner
* Frank Haverkamp
* Oliver Lohmann
* Andreas Arnez
 */

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* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libubi/ubi-media.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/ubi-media.h
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*
* Author: Artem Bityutskiy ( )
*/

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* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libubi/ubi-user.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/ubi-user.h
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* blkidP.h - Internal interfaces for libblkid
*
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* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ipkg-install/usr/include/libubi-tiny.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/overlay.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/volume.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/find.c
*
 /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/ubi.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/jffs2reset.c
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* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/snapshot.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/mount_root.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/volume.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/libfstools.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/mount.c
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libubi/libubi-tiny.h
* /fstools-2022-06-02-93369be0-zip/fstools-2022-06-02-93369be0/libfstools/extroot.c
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/*
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1.36 procd 2021-03-08-2cfc26f8-1

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* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/trace/trace.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/elf.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/trace/preload.c
*
 /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp-syscalls-helpers.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/preload.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/log.h

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* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/jail.h
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Package: procd
Version: 2021-03-08-2cfc26f8-1
Depends: libc, librt, libpthread, ubusd, ubus, libjson-script20220515, ubox, libubox20220515, libubus20220601, libblobmsg-json20220515, libjson-c5, jshn
Conflicts: procd-selinux
Source: package/system/procd
SourceName: procd
License: GPL-2.0
Section: base
Require-User: :dialout=20 :audio=29

SourceDateEpoch: 1654425472
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 61156
Description: OpenWrt system process manager

Found in path(s):
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ipkg-aarch64_cortex-a72/procd/CONTROL/control
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*
* reads unified cgroup config as proposed in
* https://github.com/opencontainers/runtime-spec/pull/1040
* attempt conversion from cgroup1 -> cgroup2
* https://github.com/containers/crun/blob/0.14.1/crun.1.md#cgroup-v2
*
* ToDo:
*  - convert cgroup1 devices to eBPF program
*  - convert cgroup1 net_prio and net_cls to eBPF program
*  - rdma (anyone?) intelrdt (anyone?)
*/
```

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Package: procd-ujail
Version: 2021-03-08-2cfc26f8-1
Depends: libc, librt, libpthread, libubox20220515, libubus20220601, libblobmsg-json20220515
Source: package/system/procd
SourceName: procd-ujail
License: GPL-2.0
Section: base
SourceDateEpoch: 1654425472
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 32039
Description: OpenWrt process jail helper

Found in path(s):
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ipkg-aarch64_cortex-a72/procd-ujail/CONTROL/control
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* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/console.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/jail/seccomp-oci.h
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* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/trigger.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/service.c
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 /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/state.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/system.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/instance.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plug/hotplug.h
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* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/mkdev.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plug/coldplug.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/watchdog.h

* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/plug/hotplug.c
*
 /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/utils/utils.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/procd.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/log.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/service.h
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/ubus.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/inittab.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/service/watch.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/procd.c
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/initd/init.c
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Found in path(s):
* /procd-2021-03-08-2cfc26f8-zip/procd-2021-03-08-2cfc26f8/rcS.c

1.37 fwtool 2019-11-12

1.37.1 Available under license :

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/*
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*
* Based on busybox code:
*   CRC32 table fill function
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Found in path(s):
* /fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/crc32.h
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Found in path(s):
* /fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/fwimage.h
* /fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/fwtool.c
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```
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* utils - misc libubox utility functions
*
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*/
```

Found in path(s):
* /fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/utils.h
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Package: fwtool
Version: 2019-11-12-8f7fe925-1
Depends: libc, librt, libpthread
Source: package/system/fwtool
SourceName: fwtool
License: GPL-2.0
Section: utils
SourceDateEpoch: 1573768411
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 5354
Description: Utility for appending and extracting firmware metadata and signatures

Found in path(s):
* /fwtool-2019-11-12-8f7fe925-zip/fwtool-2019-11-12-8f7fe925/ipkg-aarch64_cortex-a72/fwtool/CONTROL/control

1.38 jsonfilter 2018-02-04

1.38.1 Available under license :

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```
/*
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*
```

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Found in path(s):
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/matcher.c
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/main.c
*
 /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ast.c
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/lexer.c
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/lexer.h
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/matcher.h
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/parser.y
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ast.h
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Package: jsonfilter
Version: 2018-02-04-c7e938d6-1
Depends: libc, librt, libpthread, libubox20220515, libjson-c5
Source: package/utils/jsonfilter
SourceName: jsonfilter
License: ISC
Section: base
SourceDateEpoch: 1645878990
Maintainer: Jo-Philipp Wich <jo@mein.io>
Architecture: aarch64_cortex-a72
Installed-Size: 12064
Description: OpenWrt JSON filter utility

Found in path(s):
* /jsonfilter-2018-02-04-c7e938d6-zip/jsonfilter-2018-02-04-c7e938d6/ipkg-aarch64_cortex-a72/jsonfilter/CONTROL/control

1.39 libnghttp2 1.44.0

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set yrange [0:]
set terminal pngcairo font 'Sans, 8' lw 1 size 1400,1024
set xtics rotate by -45
set style histogram errorbars gap 2 lw 1
set style fill solid border -1
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1.40 libuclient 2021-05-14

1.40.1 Available under license :

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Package: libuclient20201210
Version: 2021-05-14-6a6011df-1
Depends: libc, librt, libpthread, libubox20220515
Provides: libuclient

Source: package/libs/uclient
SourceName: libuclient
License: ISC
Section: libs
SourceDateEpoch: 1621028442
ABIVersion: 20201210
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 12104
Description: HTTP/1.1 client library

Found in path(s):
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-aarch64_cortex-a72/libuclient/CONTROL/control
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* uclient - ustream based protocol client library
*
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Found in path(s):
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-backend.h
*
 /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-utils.c
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-http.c
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-install/usr/include/libubox/uclient.h
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-install/usr/include/libubox/uclient-utils.h
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient.h
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-fetch.c
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient.c
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/uclient-utils.h
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Package: uclient-fetch
Version: 2021-05-14-6a6011df-1
Depends: libc, librt, libpthread, libuclient20201210
Provides: wget
Alternatives: 200:/usr/bin/wget:/bin/uclient-fetch
Source: package/libs/uclient
SourceName: uclient-fetch
License: ISC
Section: net
SourceDateEpoch: 1621028442
Maintainer: Felix Fietkau <nbd@nbd.name>

Architecture: aarch64_cortex-a72
Installed-Size: 9284
Description: Tiny wget replacement using libuclient

Found in path(s):
* /uclient-2021-05-14-6a6011df-zip/uclient-2021-05-14-6a6011df/ipkg-aarch64_cortex-a72/uclient-fetch/CONTROL/control

1.41 netifd 2022-08-25

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```
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1.42 ubox 2021-08-03

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Found in path(s):
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/logd.c
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/syslog.h
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/syslog.c
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* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/getrandom.c
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Package: getrandom
Version: 2021-08-03-205defb5-2
Depends: libc, librt, libpthread
Source: package/system/ubox
SourceName: getrandom

License: GPL-2.0
Section: base
SourceDateEpoch: 1643641405
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 2644
Description: OpenWrt getrandom system helper

Found in path(s):
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/getrandom/CONTROL/control
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* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/log/logread.c
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/kmodloader.c
No license file was found, but licenses were detected in source scan.

Package: ubox
Version: 2021-08-03-205defb5-2
Depends: libc, librt, libpthread, libubox20220515, ubusd, ubus, libubus20220601, libuci20130104
Alternatives: 100:/sbin/rmmod:/sbin/kmodloader, 100:/sbin/insmod:/sbin/kmodloader,
100:/sbin/lsmod:/sbin/kmodloader, 100:/sbin/modinfo:/sbin/kmodloader, 100:/sbin/modprobe:/sbin/kmodloader
Source: package/system/ubox
SourceName: ubox
License: GPL-2.0
Section: base
SourceDateEpoch: 1643641405
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 19388
Description: OpenWrt system helper toolbox

Found in path(s):
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/ubox/CONTROL/control
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Package: logd
Version: 2021-08-03-205defb5-2
Depends: libc, librt, libpthread, libubox20220515, libubus20220601, libblobmsg-json20220515
Source: package/system/ubox
SourceName: logd
License: GPL-2.0
Section: base

Require-User: logd=514:logd=514
SourceDateEpoch: 1643641405
Maintainer: John Crispin <john@phrozen.org>
Architecture: aarch64_cortex-a72
Installed-Size: 13382
Description: OpenWrt system log implementation

Found in path(s):
* /ubox-2021-08-03-205defb5-zip/ubox-2021-08-03-205defb5/ipkg-aarch64_cortex-a72/logd/CONTROL/control

1.43 ubus 2022-06-01

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Found in path(s):
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-sub.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-obj.c
No license file was found, but licenses were detected in source scan.

Package: libubus20220601
Version: 2022-06-01-2bebf93c-1
Depends: libc, librt, libpthread, libubox20220515
Provides: libubus
Source: package/system/ubus
SourceName: libubus
License: LGPL-2.1
Section: libs
SourceDateEpoch: 1654425492
ABIVersion: 20220601
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 12313
Description: OpenWrt RPC client library

Found in path(s):
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-aarch64_cortex-a72/libubus/CONTROL/control
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* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubus_common.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_event.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/count.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_obj.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/cli.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_id.c
*
 /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-install/usr/include/ubus_common.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_id.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusmsg.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/count.h

* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-install/usr/include/ubusmsg.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_obj.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/client.c
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* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-io.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd_proto.c
*
 /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ipkg-install/usr/include/libubus.h
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/examples/server.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/libubus-req.c
* /ubus-2022-06-01-2bebf93c-zip/ubus-2022-06-01-2bebf93c/ubusd.h
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Package: ubusd
Version: 2022-06-01-2bebf93c-1
Depends: libc, librt, libpthread, libubox20220515, libblobmsg-json20220515
Source: package/system/ubus
SourceName: ubusd
License: LGPL-2.1
Section: base
Require-User: ubus=81:ubus=81
SourceDateEpoch: 1654425492
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72

Installed-Size: 14363
Description: OpenWrt RPC daemon

Found in path(s):
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Package: ubus
Version: 2022-06-01-2bebf93c-1
Depends: libc, librt, libpthread, libubus20220601, libblobmsg-json20220515, ubusd
Source: package/system/ubus
SourceName: ubus
License: LGPL-2.1
Section: base
SourceDateEpoch: 1654425492
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 7710
Description: OpenWrt RPC client utility

Found in path(s):
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1.44 usign 2020-05-23

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Package: usign
Version: 2020-05-23-f1f65026-1
Depends: libc, librt, libpthread, libubox20220515
Source: package/system/usign
SourceName: usign
License: ISC
Section: base
SourceDateEpoch: 1590233892
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 13584

Description: OpenWrt signature verification utility

Found in path(s):
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* Daniel Beer <dlbeer@gmail.com>, 5 Jan 2014
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*/

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* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/f25519.c
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/* Arithmetic in prime fields
* Daniel Beer <dlbeer@gmail.com>, 10 Jan 2014
*
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*/

Found in path(s):
* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/fprime.c
* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/fprime.h
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/* Arithmetic mod p = 2^255-19
* Daniel Beer <dlbeer@gmail.com>, 8 Jan 2014
*
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*/

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* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/f25519.h
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/* Edwards curve operations
* Daniel Beer <dlbeer@gmail.com>, 9 Jan 2014
*
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* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/ed25519.c
* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/ed25519.h
No license file was found, but licenses were detected in source scan.

/* Edwards curve signature system
* Daniel Beer <dlbeer@gmail.com>, 22 Apr 2014
*
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*/

Found in path(s):
* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/edsign.h
* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/edsign.c
No license file was found, but licenses were detected in source scan.

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/* SHA512
* Daniel Beer <dlbeer@gmail.com>, 22 Apr 2014
*
* This file is in the public domain.
*/

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* /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/sha512.c
*
 /usign-2020-05-23-f1f65026-zip/usign-2020-05-23-f1f65026/sha512.h

1.45 libubox 2022-05-15

1.45.1 Available under license :

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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/examples/shunit2

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/*
* usock - socket helper functions
*
* Copyright (C) 2010 Steven Barth <steven@midlink.org>
* Copyright (C) 2011-2012 Felix Fietkau <nbd@openwrt.org>
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/usock.c
*
/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/usock.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/usock.h
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/*
* base64 - libubox base64 functions
*
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/*
* uloop - event loop implementation
*

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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/uloop.h
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/*
* runqueue-example.c
*
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/tests/test-runqueue.c
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Package: jshn
Version: 2022-05-15-d2223ef9-1
Depends: libc, librt, libpthread, libjson-c5, libubox20220515, libblobmsg-json20220515
Source: package/libs/libubox
SourceName: jshn

License: ISC
Section: utils
SourceDateEpoch: 1654630618
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 7890
Description: Library for parsing and generating JSON from shell scripts

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/jshn/CONTROL/control
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/lua/uloop.c
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*/

```
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
 * http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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* (This is a heavily cut-down "BSD license".)
*
* This differs from Colin Plumb's older public domain implementation in that
* no exactly 32-bit integer data type is required (any 32-bit or wider
* unsigned integer data type will do), there's no compile-time
 endianness
* configuration, and the function prototypes match OpenSSL's.  No code from
* Colin Plumb's implementation has been reused; this comment merely compares
* the properties of the two independent implementations.
*
* The primary goals of this implementation are portability and ease of use.
* It is meant to be fast, but not as fast as possible.  Some known
* optimizations are not included to reduce source code size and avoid
* compile-time configuration.
*/

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/md5.c
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blobmsg_json.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blobmsg.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg_json.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg_json.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blobmsg.c
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/*
* runqueue.c - a simple task queueing/completion tracking helper
*
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/runqueue.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/runqueue.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/runqueue.h
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Package: libblobmsg-json20220515
Version: 2022-05-15-d2223ef9-1
Depends: libc, librt, libpthread, libjson-c5, libubox20220515

Provides: libblobmsg-json
Source: package/libs/libubox
SourceName: libblobmsg-json
License: ISC
Section: libs
SourceDateEpoch: 1654630618
ABIVersion: 20220515
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 4795
Description: blobmsg <-> json conversion library

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/libblobmsg-json/CONTROL/control
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/*
* ulog - simple logging functions
*
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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ulog.c
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/ulog.h
No license file was found, but licenses were detected in source scan.

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* kvlist - simple key/value store
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/kvlist.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/kvlist.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/kvlist.h
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*/
/*
* This is an OpenSSL-compatible implementation of the RSA Data Security, Inc.
* MD5 Message-Digest Algorithm (RFC 1321).
*
* Homepage:
 * http://openwall.info/wiki/people/solar/software/public-domain-source-code/md5
*
* Author:
* Alexander Peslyak, better known as Solar Designer <solar at openwall.com>
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*/

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/md5.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/md5.h
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Package: libjson-script20220515
Version: 2022-05-15-d2223ef9-1
Depends: libc, librt, libpthread, libubox20220515
Provides: libjson-script
Source: package/libs/libubox
SourceName: libjson-script
License: ISC
Section: utils
SourceDateEpoch: 1654630618
ABIVersion: 20220515
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72
Installed-Size: 6329
Description: Minimalistic JSON based scripting engine

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/libjson-script/CONTROL/control
No license file was found, but licenses were detected in source scan.

Package: libubox20220515
Version: 2022-05-15-d2223ef9-1
Depends: libc, librt, libpthread
Provides: libubox
Source: package/libs/libubox
SourceName: libubox
License: ISC
Section: libs
SourceDateEpoch: 1654630618
ABIVersion: 20220515
Maintainer: Felix Fietkau <nbd@nbd.name>
Architecture: aarch64_cortex-a72

Installed-Size: 25465
Description: Basic utility library

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-aarch64_cortex-a72/libubox/CONTROL/control
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```
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* ustream - library for stream buffer management
*
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Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/ustream.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ustream.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ustream-fd.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ustream.h
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* blob - library for generating/parsing tagged binary data
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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blob.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/blob.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/blob.c
No license file was found, but licenses were detected in source scan.

/*
* uloop - event loop implementation
*
* Copyright (C) 2010-2016 Felix Fietkau <nbd@openwrt.org>
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*/

Found in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop.c
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop-kqueue.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/uloop-epoll.c
No license file was found, but licenses were detected in source scan.

```
# $Id: shunit2 189 2008-07-11 11:46:54Z kate.ward@forestent.com $
# vim:et:ft=sh:sts=2:sw=2
# vim:foldmethod=marker:foldmarker=/**,*/
#
#/**
# <?xml version="1.0" encoding="UTF-8"?>
# <s:shelldoc xmlns:s="http://www.forestent.com/projects/shelldoc/xsl/2005.0">
# <s:header>
# shUnit 2.1.4
# Shell Unit Test Framework
#
# http://shunit2.sourceforge.net/
#
# written by Kate Ward &lt;kate.ward@forestent.com&gt;
# released under the LGPL
#
# this module implements a xUnit based unit test framework similar to JUnit
# </s:header>
#*/

SHUNIT_VERSION='2.1.4'

_shunit_warn() { echo "shunit2:WARN $@" >&2; }
_shunit_error() { echo "shunit2:ERROR $@" >&2; }
_shunit_fatal() { echo "shunit2:FATAL $@" >&2; }

SHUNIT_TRUE=0
SHUNIT_FALSE=1
SHUNIT_ERROR=2

# specific shell checks
if [ -n "${ZSH_VERSION:-}" ]; then
 setopt |grep "^shwordsplit$" >/dev/null
 if [ $? -ne ${SHUNIT_TRUE} ]; then
   _shunit_fatal 'zsh shwordsplit option is
 required for proper operation'
   exit ${SHUNIT_ERROR}
 fi
 if [ -z "${SHUNIT_PARENT:-}" ]; then
   _shunit_fatal "zsh does not pass \$0 through properly. please declare \
```

```
\"SHUNIT_PARENT=\$0\" before calling shUnit2"
  exit ${SHUNIT_ERROR}
 fi
fi

# shell flags for shunit2:
# u - treat unset variables as an error when performing parameter expansion
__SHUNIT_SHELL_FLAGS='u'

# save the current set of shell flags, and then set some for ourself
shunit_shellFlags_="$-"
for shunit_shellFlag_ in `echo "${__SHUNIT_SHELL_FLAGS}" |sed 's/\(.\)/\1 /g'`
do
 set -${shunit_shellFlag_}
done

#
# constants
#

__SHUNIT_ASSERT_MSG_PREFIX='ASSERT:'
__SHUNIT_PARENT=${SHUNIT_PARENT:-$0}

# set the constants readonly
shunit_constants_=`set |grep "^__SHUNIT_" |cut -d= -f1`
echo "${shunit_constants_}" |grep "^Binary file" >/dev/null
if [ $? -eq 0 ]; then
 # deal with binary junk in 'set' output
 shunit_constants_=`set |grep -a "^__SHUNIT_" |cut -d= -f1`
fi
for shunit_const_ in ${shunit_constants_};
 do
 shunit_ro_opts_="
 if [ -n "${ZSH_VERSION:-}" ]; then
   case ${ZSH_VERSION} in
     [123].*) ;;
     *) shunit_ro_opts_='-g' ;;  # declare readonly constants globally
   esac
 fi
 readonly ${shunit_ro_opts_} ${shunit_const_}
done
unset shunit_const_ shunit_constants_ shunit_ro_opts_

# variables
__shunit_skip=${SHUNIT_FALSE}
__shunit_suite="

__shunit_testsPassed=0
```

```
__shunit_testsFailed=0
__shunit_testsSkipped=0
__shunit_testsTotal=0

# macros
_SHUNIT_LINENO_='eval if [ "${1:-}" = "--lineno" ]; then [ -n "$2" ] && shunit_message_="[$2]"; shift 2; fi'

#------------------------------------------------------------------------------
# assert functions
#

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertEquals</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>expected</parameter></paramdef>
#
       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>expected</emphasis> and
#   <emphasis>actual</emphasis> are equal to one another. The message is
#   optional.</para>
# </entry>
# </s:function>
#*/
assertEquals()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
   _shunit_error 'assertEquals() requires one or two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 3 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi
 shunit_expected_=$1
 shunit_actual_=$2
```

```
 shunit_return=${SHUNIT_TRUE}
 if [ "${shunit_expected_}" = "${shunit_actual_}" ]; then
   _shunit_testPassed
 else
   failNotEquals "${shunit_message_}" "${shunit_expected_}" "${shunit_actual_}"
   shunit_return=${SHUNIT_FALSE}
 fi

 unset shunit_message_ shunit_expected_ shunit_actual_
 __shunit_lineno
 return ${shunit_return}
}
_ASSERT_EQUALS_='eval assertEquals --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertNull</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>value</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>value</emphasis> is <literal>null</literal>,
#   or in shell terms a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNull()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 1 -o $# -gt 2 ]; then
   _shunit_error 'assertNull() requires one or two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 2 ]; then
   shunit_message_="${shunit_message_}$1"
    shift
 fi
 if [ $# -eq 2 ]; then
```

```
  assertTrue "${shunit_message_}$1" "[ -z '$2' ]"
 else
  assertTrue "[ -z '$1' ]"
 fi
}
_ASSERT_NULL_='eval assertNull --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertNotNull</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>value</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>value</emphasis> is <emphasis
#   role="strong">not</emphasis> <literal>null</literal>, or in shell terms not
#   a zero-length string. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotNull()
{
 ${_SHUNIT_LINENO_}
 if [ $# -gt 2 ]; then  # allowing 0 arguments as $1 might actually be null
  _shunit_error 'assertNotNull() requires one
 or two arguments'
  return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 if [ $# -eq 2 ]; then
  assertTrue "$1" "[ -n '$2' ]"
 else
  assertTrue "[ -n '${1:-}' ]"
 fi
}
_ASSERT_NOT_NULL_='eval assertNotNull --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
```

```
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertSame</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>expected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function is functionally equivalent to
#   <function>assertEquals</function>.</para>
# </entry>
# </s:function>
#*/
assertSame()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
   _shunit_error 'assertSame() requires one or two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 if [ $# -eq 2 ]; then
   assertEquals "$1" "$2"
 else
   assertEquals "$1" "$2" "$3"
 fi
}
_ASSERT_SAME_='eval assertSame --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertNotSame</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>unexpected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that <emphasis>unexpected</emphasis> and
#   <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
```

```
#   equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
assertNotSame()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
   _shunit_error 'assertNotSame()
 requires two or three arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 3 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi
 shunit_unexpected_=$1
 shunit_actual_=$2

 shunit_return=${SHUNIT_TRUE}
 if [ "${shunit_unexpected_}" != "${shunit_actual_}" ]; then
   _shunit_testPassed
 else
   failSame "${shunit_message_}" "$@"
   shunit_return=${SHUNIT_FALSE}
 fi

 unset shunit_message_ shunit_unexpected_ shunit_actual_
 return ${shunit_return}
}
_ASSERT_NOT_SAME_='eval assertNotSame --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertTrue</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>condition</parameter></paramdef>
#
```

```
    </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that a given shell test condition is true. The message is
#   optional.</para>
#   <para>Testing whether something is true or false is easy enough by using
#   the assertEquals/assertNotSame functions. Shell supports much more
#   complicated tests though, and a means to support them was needed. As such,
#   this function tests that conditions are true or false through evaluation
#   rather than just looking for a true or false.</para>
#   <funcsynopsis>
#     The following test will succeed: <funcsynopsisinfo>assertTrue "[ 34 -gt 23 ]"</funcsynopsisinfo>
#     The folloing test will fail with a message: <funcsynopsisinfo>assertTrue "test failed" "[ -r '/non/existant/file'
]"</funcsynopsisinfo>
#   </funcsynopsis>
# </entry>
# </s:function>
#*/
assertTrue()
{
 ${_SHUNIT_LINENO_}
 if [ $# -gt 2 ]; then
   _shunit_error 'assertTrue() takes one two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return
 ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 2 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi
 shunit_condition_=$1

 # see if condition is an integer, i.e. a return value
 shunit_match_=`expr "${shunit_condition_}" : '\([0-9]*\)'`
 shunit_return=${SHUNIT_TRUE}
 if [ -z "${shunit_condition_}" ]; then
   # null condition
   shunit_return=${SHUNIT_FALSE}
 elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
   # possible return value. treating 0 as true, and non-zero as false.
   [ ${shunit_condition_} -ne 0 ] && shunit_return=${SHUNIT_FALSE}
 else
   # (hopefully) a condition
   ( eval ${shunit_condition_} ) >/dev/null 2>&1
   [ $? -ne 0 ] && shunit_return=${SHUNIT_FALSE}
 fi
```

```
 # record the test
 if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
   _shunit_testPassed
 else
   _shunit_testFailed "${shunit_message_}"
 fi

 unset shunit_message_ shunit_condition_ shunit_match_
 return ${shunit_return}
}
_ASSERT_TRUE_='eval
 assertTrue --lineno "${LINENO:-}"'

#/**
# <s:function group="asserts">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>assertFalse</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>condition</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Asserts that a given shell test condition is false. The message is
#   optional.</para>
#   <para>Testing whether something is true or false is easy enough by using
#   the assertEquals/assertNotSame functions. Shell supports much more
#   complicated tests though, and a means to support them was needed. As such,
#   this function tests that conditions are true or false through evaluation
#   rather than just looking for a true or false.</para>
#   <funcsynopsis>
#     The following test will succeed: <funcsynopsisinfo>assertFalse "[
 'apples' = 'oranges' ]"</funcsynopsisinfo>
#     The folloing test will fail with a message: <funcsynopsisinfo>assertFalse "test failed" "[ 1 -eq 1 -a 2 -eq 2
]"</funcsynopsisinfo>
#   </funcsynopsis>
# </entry>
# </s:function>
#*/
assertFalse()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 1 -o $# -gt 2 ]; then
   _shunit_error 'assertFalse() quires one or two arguments'
```

```
  return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_=''
 if [ $# -eq 2 ]; then
  shunit_message_="${shunit_message_}$1"
  shift
 fi
 shunit_condition_=$1

 # see if condition is an integer, i.e. a return value
 shunit_match_=`expr "${shunit_condition_}" : '\([0-9]*\)'`
 shunit_return=${SHUNIT_TRUE}
 if [ -z "${shunit_condition_}" ]; then
  # null condition
  shunit_return=${SHUNIT_FALSE}
 elif [ "${shunit_condition_}" = "${shunit_match_}" ]; then
  # possible return value. treating 0 as true, and non-zero as false.
  [ ${shunit_condition_}
-eq 0 ] && shunit_return=${SHUNIT_FALSE}
 else
  # (hopefully) a condition
  ( eval ${shunit_condition_} ) >/dev/null 2>&1
  [ $? -eq 0 ] && shunit_return=${SHUNIT_FALSE}
 fi

 # record the test
 if [ ${shunit_return} -eq ${SHUNIT_TRUE} ]; then
  _shunit_testPassed
 else
  _shunit_testFailed "${shunit_message_}"
 fi

 unset shunit_message_ shunit_condition_ shunit_match_
 return ${shunit_return}
}
_ASSERT_FALSE_='eval assertFalse --lineno "${LINENO:-}"'

#------------------------------------------------------------------------------
# failure functions
#

#/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
```

```
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>fail</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Fails the test immediately, with the optional message.</para>
# </entry>
# </s:function>
#*/
fail()
{
 ${_SHUNIT_LINENO_}
 if [ $# -gt 1 ]; then
   _shunit_error 'fail() requires one or two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 1 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi

 _shunit_testFailed "${shunit_message_}"

 unset shunit_message_
 return ${SHUNIT_FALSE}
}
_FAIL_='eval fail --lineno "${LINENO:-}"'

#/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>failNotEquals</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>unexpected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Fails the test if <emphasis>unexpected</emphasis> and
```

```
#
  <emphasis>actual</emphasis> are <emphasis role="strong">not</emphasis>
#   equal to one another. The message is optional.</para>
# </entry>
# </s:function>
#*/
failNotEquals()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
   _shunit_error 'failNotEquals() requires one or two arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 3 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi
 shunit_unexpected_=$1
 shunit_actual_=$2

 _shunit_testFailed "${shunit_message_:+${shunit_message_} }expected:<${shunit_unexpected_}> but
was:<${shunit_actual_}>"

 unset shunit_message_ shunit_unexpected_ shunit_actual_
 return ${SHUNIT_FALSE}
}
_FAIL_NOT_EQUALS_='eval failNotEquals --lineno "${LINENO:-}"'

#/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#
  <funcdef><function>failSame</function></funcdef>
#       <paramdef>string <parameter>[message]</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Indicate test failure because arguments were not the same. The
#   message is optional.</para>
# </entry>
# </s:function>
```

```
#*/
failSame()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
   _shunit_error 'failSame() requires two or three arguments'
   return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 [ -z "${shunit_message_:-}" ] && shunit_message_="
 if [ $# -eq 3 ]; then
   shunit_message_="${shunit_message_}$1"
   shift
 fi

 _shunit_testFailed "${shunit_message_:+${shunit_message_} }expected not same"

 unset shunit_message_
 return ${SHUNIT_FALSE}
}
_FAIL_SAME_='eval failSame --lineno "${LINENO:-}"'

#/**
# <s:function group="failures">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>failNotSame</function></funcdef>
#
       <paramdef>string <parameter>[message]</parameter></paramdef>
#       <paramdef>string <parameter>expected</parameter></paramdef>
#       <paramdef>string <parameter>actual</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>Fails the test if <emphasis>expected</emphasis> and
#   <emphasis>actual</emphasis> are equal to one another. The message is
#   optional.</para>
# </entry>
# </s:function>
#*/
failNotSame()
{
 ${_SHUNIT_LINENO_}
 if [ $# -lt 2 -o $# -gt 3 ]; then
```

```
  _shunit_error 'failNotEquals() requires one or two arguments'
  return ${SHUNIT_ERROR}
 fi
 _shunit_shouldSkip && return ${SHUNIT_TRUE}

 if [ $# -eq 2 ]; then
  failNotEquals "$1" "$2"
 else
  failNotEquals "$1" "$2" "$3"
 fi
}
_FAIL_NOT_SAME_='eval failNotSame --lineno "${LINENO:-}"'

#------------------------------------------------------------------------------
# skipping functions
#

#/**
# <s:function group="skipping">
# <entry
 align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>startSkipping</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function forces the remaining assert and fail functions to be
#   "skipped", i.e. they will have no effect. Each function skipped will be
#   recorded so that the total of asserts and fails will not be altered.</para>
# </entry>
# </s:function>
#*/
startSkipping()
{
 __shunit_skip=${SHUNIT_TRUE}
}

#/**
# <s:function group="skipping">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
```

```
#     <funcprototype>
#       <funcdef><function>endSkipping</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function returns calls to the assert and fail functions to their
#   default behavior, i.e. they will be called.</para>
# </entry>
# </s:function>
#*/
endSkipping()
{
  __shunit_skip=${SHUNIT_FALSE}
}

#/**
# <s:function group="skipping">
# <entry align="right">
#   <emphasis>boolean</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>isSkipping</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function returns the state of skipping.</para>
# </entry>
# </s:function>
#*/
isSkipping()
{
 return ${__shunit_skip}
}

#-------------------------------------------------------------------------
# suite functions
#

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
```

```
#       <funcdef><function>suite</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be optionally overridden by the user in their test
#   suite.</para>
#   <para>If this function exists, it will be called when
#   <command>shunit2</command>
 is sourced. If it does not exist, shUnit2 will
#   search the parent script for all functions beginning with the word
#   <literal>test</literal>, and they will be added dynamically to the test
#   suite.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# suite() { :; }

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>suite_addTest</function></funcdef>
#       <paramdef>string <parameter>function</parameter></paramdef>
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function adds a function name to the list of tests scheduled for
#   execution as part of this test suite. This function should only be called
#   from within the <function>suite()</function> function.</para>
# </entry>
# </s:function>
#*/
suite_addTest()
{
 _su_func=${1:-}

 __shunit_suite="${__shunit_suite:+${__shunit_suite}
 }${_su_func}"

 unset _su_func
}

#/**
# <s:function group="suites">
```

```
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>oneTimeSetUp</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be be optionally overridden by the user in their
#   test suite.</para>
#   <para>If this function exists, it will be called once before any tests are
#   run. It is useful to prepare a common environment for all tests.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeSetUp() { :; }

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>oneTimeTearDown</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be be
 optionally overridden by the user in their
#   test suite.</para>
#   <para>If this function exists, it will be called once after all tests are
#   completed. It is useful to clean up the environment after all tests.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# oneTimeTearDown() { :; }

#/**
# <s:function group="suites">
# <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
```

```
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>setUp</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be be optionally overridden by the user in their
#   test suite.</para>
#   <para>If this function exists, it will be called before each test is run.
#   It is useful to reset the environment before each test.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# setUp() { :; }

#/**
# <s:function group="suites">
#
 <entry align="right">
#   <emphasis>void</emphasis>
# </entry>
# <entry>
#   <funcsynopsis>
#     <funcprototype>
#       <funcdef><function>tearDown</function></funcdef>
#       <paramdef />
#     </funcprototype>
#   </funcsynopsis>
#   <para>This function can be be optionally overridden by the user in their
#   test suite.</para>
#   <para>If this function exists, it will be called after each test completes.
#   It is useful to clean up the environment after each test.</para>
# </entry>
# </s:function>
#*/
# Note: see _shunit_mktempFunc() for actual implementation
# tearDown() { :; }

#-------------------------------------------------------------------------------
# internal shUnit2 functions
#

_shunit_cleanup()
{
 name=$1
```

```
 case ${name} in
   EXIT) signal=0 ;;
   INT) signal=2 ;;
   TERM) signal=15 ;;
   *)
     _shunit_warn "unrecognized trap value (${name})"
     signal=0
     ;;
 esac

 # do our work
 rm -fr "${__shunit_tmpDir}"

 # exit for all non-EXIT signals

 if [ ${name} != 'EXIT' ]; then
   _shunit_warn "trapped and now handling the (${name}) signal"
   _shunit_generateReport
   # disable EXIT trap
   trap 0
   # add 128 to signal and exit
   exit `expr ${signal} + 128`
 fi
}

_shunit_execSuite()
{
 echo '#'
 echo '# Performing tests'
 echo '#'
 for _su_func in ${__shunit_suite}; do
   # disable skipping
   endSkipping

   # execute the per-test setup function
   setUp

   # execute the test
   echo "${_su_func}"
   eval ${_su_func}

   # execute the per-test tear-down function
   tearDown
 done

 unset _su_func
}
```

```
_shunit_generateReport()
{
 _su__awkPercent='{printf("%4d %3.0f%%", $1, $1*100/$2)}'
 if [ ${__shunit_testsTotal:-0} -gt 0 ]; then
   _su__passed=`echo ${__shunit_testsPassed} ${__shunit_testsTotal} |\
       awk "${_su__awkPercent}"`
   _su__failed=`echo ${__shunit_testsFailed} ${__shunit_testsTotal} |\
       awk "${_su__awkPercent}"`
   _su__skipped=`echo ${__shunit_testsSkipped} ${__shunit_testsTotal}
 |\
       awk "${_su__awkPercent}"`
   _su__total=`echo ${__shunit_testsTotal} 100 |\
       awk '{printf("%4d %3d%%", $1, $2)}'`
 else
   _su__passed=`echo 0 0 |awk '{printf("%4d %3d%%", $1, $2)}'`
   _su__failed=${_su__passed}
   _su__skipped=${_su__passed}
   _su__total=${_su__passed}
 fi

 cat <<EOF

#
# Test report
#
tests passed:  ${_su__passed}
tests failed:  ${_su__failed}
tests skipped: ${_su__skipped}
tests total:   ${_su__total}
EOF

 unset _su__awkPercent _su__passed _su__failed _su__skipped _su__total
}

# this function is a cross-platform temporary directory creation tool. not all
# OSes have the mktemp function, so one is included here.
_shunit_mktempDir()
{
 # try the standard mktemp function
 ( exec mktemp -dqt shunit.XXXXXX 2>/dev/null ) && return

 # the standard mktemp didn't work.  doing our own.
 if [ -r '/dev/urandom' ]; then
   _su__random=`od -vAn -N4 -tx4 </dev/urandom |sed 's/^[^0-9a-f]*//'`
 elif [ -n "${RANDOM:-}" ]; then
   # $RANDOM
 works
   _su__random=${RANDOM}${RANDOM}${RANDOM}$$
```

```
 else
   # $RANDOM doesn't work
   _su__date=`date '+%Y%m%d%H%M%S'`
   _su__random=`expr ${_su__date} / $$`
 fi

 _su__tmpDir="${TMPDIR:-/tmp}/shunit.${_su__random}"
 ( umask 077 && mkdir "${_su__tmpDir}" ) || {
   echo 'shUnit:FATAL could not create temporary directory! exiting' >&2
   exit 1
 }

 echo ${_su__tmpDir}
 unset _su__date _su__random _su__tmpDir
}

# this function is here to work around issues in Cygwin
_shunit_mktempFunc()
{
 for _su__func in oneTimeSetUp oneTimeTearDown setUp tearDown suite; do
   _su__file="${__shunit_tmpDir}/${_su__func}"
   cat <<EOF >"${_su__file}"
#! /bin/sh
exit 0
EOF
   chmod +x "${_su__file}"
 done

 unset _su__file
}

_shunit_shouldSkip()
{
 [ ${__shunit_skip} -eq ${SHUNIT_FALSE} ] && return ${SHUNIT_FALSE}
 _shunit_testSkipped
}

_shunit_testPassed()
{
 __shunit_testsPassed=`expr ${__shunit_testsPassed} + 1`
 __shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
}

_shunit_testFailed()
{
  _su__msg=$1

 __shunit_testsFailed=`expr ${__shunit_testsFailed} + 1`
```

```
 __shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
 echo "${__SHUNIT_ASSERT_MSG_PREFIX}${_su__msg}" >&2

 unset _su__msg
}

_shunit_testSkipped()
{
 __shunit_testsSkipped=`expr ${__shunit_testsSkipped} + 1`
 __shunit_testsTotal=`expr ${__shunit_testsTotal} + 1`
}

#------------------------------------------------------------------------------
# main
#

# create a temporary storage location
__shunit_tmpDir=`_shunit_mktempDir`

# setup traps to clean up after ourselves
trap '_shunit_cleanup EXIT' 0
trap '_shunit_cleanup INT' 2
trap '_shunit_cleanup TERM' 15

# create phantom functions to work around issues with Cygwin
_shunit_mktempFunc
PATH="${__shunit_tmpDir}:${PATH}"

# execute the oneTimeSetUp function (if it exists)
oneTimeSetUp

# execute the suite function defined in the parent test script
# deprecated as of 2.1.0
suite

# if no suite function was defined, dynamically build a list
 of functions
if [ -z "${__shunit_suite}" ]; then
 shunit_funcs_=`grep "^[ \t]*test[A-Za-z0-9_]* *()" ${__SHUNIT_PARENT} \
     |sed 's/[^A-Za-z0-9_]//g'`
 for shunit_func_ in ${shunit_funcs_}; do
   suite_addTest ${shunit_func_}
 done
fi
unset shunit_func_ shunit_funcs_

# execute the tests
_shunit_execSuite
```

```
# execute the oneTimeTearDown function (if it exists)
oneTimeTearDown

# generate report
_shunit_generateReport

# restore the previous set of shell flags
for shunit_shellFlag_ in ${__SHUNIT_SHELL_FLAGS}; do
 echo ${shunit_shellFlags_} |grep ${shunit_shellFlag_} >/dev/null \
   || set +${shunit_shellFlag_}
done
unset shunit_shellFlag_ shunit_shellFlags_

[ ${__shunit_testsFailed} -eq 0 ] || exit 1

#/**
# </s:shelldoc>
#*/
```

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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/tests/shunit2/shunit2/shunit2
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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/json_script.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/json_script.c
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```
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```

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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/vlist.h
*
 /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/avl-cmp.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/vlist.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/vlist.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl-cmp.c
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* Original OLSRd implementation by Hannes Gredler <hannes@gredler.at>
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in path(s):
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/avl.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl.c
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/avl.h
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* utils - misc libubox utility functions
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*
/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/utils.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/utils.h

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* safe_list - linked list protected against recursive iteration with deletes
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*
/libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/safe_list.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/safe_list.h
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* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/list.h
* /libubox-2022-05-15-d2223ef9-zip/libubox-2022-05-15-d2223ef9/ipkg-install/usr/include/libubox/list.h

1.46 mbed-tls 2.28.1

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1.47 busybox 1.36.1

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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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1.51 opkg 2022-02-24

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1.52 tpm2-tools 5.2

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1.54 libnetconf 0.10.0

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1.55 libuuid 2.37.3

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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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```
#!/usr/bin/env bash
# MIT licenses will each have a unique MD5 sum since they contain a unique copyright.
# This script will read the license file into memory, strip out the copyright, and then
# generate an MD5 that is not unique and can be matched against a known MIT MD5 sum.
set -e

calculate_md5_sum() {
 local FILE="$1"

 # Read the contents of the file into a variable
 local raw_license_text=$(<"$FILE")

 # Convert to lowercase
 local lowercase_license_text="${raw_license_text,,}"

 # Remove anything before the beginning of the license
 local stripped_license_text=$(awk '/permission is hereby granted,/{p=1} p' <<< "$lowercase_license_text")

 # Replace line breaks (Windows or Linux) with a single space
 local replaced_linebreaks=$(tr '\r\n' ' ' <<< "$stripped_license_text")

 # Replace multiple spaces with a single space
 local normalized_license_text=$(tr -s ' ' <<< "$replaced_linebreaks")

 # Strip away any non-printable, non-whitespace characters
 local clean_unprintable_license_text=$(tr
 -cd '[:print:][:space:]' <<< "$normalized_license_text")

 # Remove punctuation and special characters
 local clean_license_text=$(echo "$clean_unprintable_license_text" | sed 's/[^a-zA-Z ]//g')

 # Calculate the MD5 sum of the cleaned license text
 local MD5SUM=$(echo -n "$clean_license_text" | md5sum | awk '{print $1}')

 # Output the MD5 sum
 echo "$MD5SUM"
}

# Check if the FILE argument is provided
if [ -z "$1" ]; then
 echo "Please provide a FILE as an argument."
 exit 1
fi

# Invoke the function with the provided FILE argument
calculate_md5_sum "$1"
WEV @@ WEV[B  "1
```

x ?"U@,5 @mISmIN<GimCN7g1u|E
43mI,5WEV @@ WEV @mImImIAmImImI0mImImI*mImI
A0mImImI...
lost+found...

;9GimCN7g

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~

!"#$%&'()*+,-
./0123456789:;<=>?@ABCDEFGHIJKLMNOPQRSTUVWXYZ[\]^_`abcdefghijklmnopqrstuvwxyz{|}~WEV @@
WEV[B "1
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1.56 ziplib 1

1.56.1 Available under license :

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/* ioapi.h -- IO base function header for compress/uncompress .zip
part of the MiniZip project

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http://www.winimage.com/zLibDll/minizip.html
Modifications for Zip64 support
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*/

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* /ziplib-tar-gz/ziplib/ioapi.h
* /ziplib-tar-gz/ziplib/ioapi.c
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/* unzip.h -- IO for uncompress .zip files using zlib
Version 1.1, February 14h, 2010
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Changes

See header of unzip64.c

*/

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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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file LICENSE, version 2000-Apr-09 or later
(the contents of which are also included in zip.h) for terms of use.
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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

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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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*/

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/* zip.c -- IO on .zip files using zlib
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Modifications for AES, PKWARE disk spanning
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/* zlib.h -- interface of the 'zlib' general purpose compression library
 version 1.2.8, April 28th, 2013

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 Jean-loup Gailly   Mark Adler
 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).
*/

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/* minizip.c
Version 1.1, February 14h, 2010
sample part of the MiniZip project

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1.57 base-files 1494-r19803-9a599fee93

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Package: base-files
Version: 1494-r19803-9a599fee93
Depends: libc, librt, libpthread, netifd, jsonfilter, usign, openwrt-keyring, ubi-utils, fstools, fwtool
Source: package/base-files
SourceName: base-files
License: GPL-2.0
Section: base
SourceDateEpoch: 1665837957
Architecture: aarch64_cortex-a72
Installed-Size: 46999
Description: This package contains a base filesystem and system scripts for OpenWrt.

Found in path(s):
* /base-files-1494-r19803-9a599fee93-tar-gz/base-files/ipkg-aarch64_cortex-a72/base-files/CONTROL/control

1.58 logd 2021-08-03-205defb5-2

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1.59 wolfssl 5.5.1.ee39414e_5.5.1-stable-3

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1.60 openssl 3.0.14

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