

show task

This chapter describes the outputs of the **show task** command.

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show task info

This command displays current information about tasks running on the system.

Table 1: show task info Command Output Descriptions

Field	Description
Task <facility> instance <id>	Identifies the task by its facility name and the instance identifier for which statistics are displayed.
Process <process>	Identifies the process for which statistics are displayed.
Location	The card number, CPU number and process identifier (Pid) for which statistics are displayed.
Parent	The parent task and instance identifier, as well the location where the parent task is running.
CPU usage	The percentage of CPU time actually used versus allocated (allc), as well as the maximum used.
File usage	The number of files actually used versus allocated, as well as the maximum used.
Memory usage	The amount of memory actually used versus allocated, as well as the maximum used. (release 12.x)
Heap Memory usage	The amount of memory initialized at runtime that was dynamically allocated (used) versus originally allocated.

Field	Description
Physical Memory usage	The amount of physical memory used versus allocated.
Virtual Memory usage	The amount of memory managed by the kernel that was actually used versus allocated.
Max usage reset info	Information related to the resetting of maximum usage statistics.
Last reset	Timestamp identifying when maximum usage statistics were last reset.
Last reset reason	The reason why maximum usage statistics were reset.
P2P sessions	Displays the number of P2P sessions used and the maximum number of P2P sessions allowed.
Per Subscriber Firewall sessions	Displays the number of subscriber Firewall sessions used and the maximum number of subscriber Firewall sessions allowed.
Total sessions	Displays the total number of used sessions, the maximum number of sessions allowed, and the number of allocated sessions.
Status	Indicates the status of the configured service sessions.

show task memory

This command displays current statistics for memory.

Table 2: show task memory Command Output Descriptions

Field	Description
cpu	The CPU on the specified card where the task is running (identified by slot_number/CPU_number).
facility	The facility for which statistics are displayed.
task inst	The task instance identifier.
heap memory usage	The amount of memory initialized at runtime that was dynamically allocated (used) versus originally allocated.
physical memory usage	The amount of physical memory actually used versus allocated.
virtual memory usage	The amount of memory managed by the kernel that was actually used versus allocated.

Field	Description
status	The general status of the card, for example, "good". **Important** The starSGSNRMMemWarn trap will only be generated if the memory usage is above the threshold limit for more than the configured amount of time (60 seconds). Refer to the **show task resources** and **show task memory** CLI commands in the *Statistics and Counters Reference* to list the used and maximum allocated resources for all proclets. A trap is generated if the memory usage reaches the Warn state or over. The trap will clear as soon as the resource usage is below the threshold values without any delay.
Total	Summary for all task instances, CPU time, memory, files and sessions.

show task resources card

This command displays current statistics per card.

Table 3: show task resources card Command Output Descriptions

Field	Description
cpu	The CPU on the specified card where the task is running (identified by slot_number/CPU_number).
facility	The facility for which statistics are displayed.
task inst	The task instance identifier.
cputime	The percentage of CPU time actually used versus the allocated time (allc).
memory	The amount of memory actually used versus allocated.
files	The number of files actually used versus allocated.
sessions	The number of sessions used versus allocated, as well as the status of those sessions.
status	The general status of the card, for example, "good". **Important** The starSGSNRMMemWarn trap will only be generated if the memory usage is above the threshold limit for more than the configured amount of time (60 seconds). Refer to the **show task resources** and **show task memory** CLI commands in the *Statistics and Counters Reference* to list the used and maximum allocated resources for all proclets. A trap is generated if the memory usage reaches the Warn state or over. The trap will clear as soon as the resource usage is below the threshold values without any delay.
Total	Summary for all task instances, CPU time, memory, files and sessions.

show task resources facility

This command displays current statistics for the specified facility.

Table 4: show task resources facility Command Output Descriptions

Field	Description
cpu	The CPU on the card where the facility is running (identified by slot_number/CPU_number).
facility	The facility for which statistics are displayed.
task inst	The task instance identifier.
cputime	The percentage of CPU time actually used versus the allocated time (allc).
memory	The amount of memory actually used versus allocated.
files	The number of files actually used versus allocated.
sessions	The number of sessions used versus allocated, as well as the status of those sessions.
Total	Summary for all task instances, CPU time, memory, files and sessions.

show task resources max

This command displays maximum (instead of current) statistics for all facilities.

Table 5: show task resources max Command Output Descriptions

Field	Description
cpu	The CPU on the specified card where the facility is running (identified by slot_number/CPU_number).
facility	The facility for which maximum statistics are displayed.
task inst	The task instance identifier.
cputime	The maximum percentage of CPU time actually used versus the allocated time (allc).
memory	The maximum amount of memory actually used versus allocated.
files	The maximum number of files actually used versus allocated.
sessions	The maximum number of sessions used versus allocated, as well as the status of those sessions.
Total	Summary of maximum statistics for all task instances, CPU time, memory, files and sessions.

show task table

This command displays current statistics for all child and parent facilities running on all cards in the system.

Table 6: show task table Command Output Descriptions

Field	Description
Currently Running Tasks	
cpu	The CPU on the specified card where the facility is running (identified by slot_number/CPU_number).
task facility	The task/facility for which statistics are displayed.
inst	The task instance identifier.
pid	The process identifier.
pri	The priority of the instance.
Parent Tasks	
parent facility	The parent facility of the task for which statistics are displayed.
inst	The instance identifier of the parent facility.
pid	The process identifier of the parent facility.