

Introduction

This document describes the Cisco Network Convergence System (NCS) 6000 Platform Independent CLI Commands in Cisco IOS® XR Release 5.0.1 that have changed compared to the Cisco Carrier Routing System (CRS) routers that run other releases of Cisco IOS XR.

This document is intended for anyone who is familiar with Cisco IOS XR and wants to understand what CLI changes have been made with the NCS 6008 and Release 5.0.1.

Note: This document does not address Platform Dependent (PD) commands that have changed or have been created specifically for the NCS 6008 Platform.

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Prerequisites

Requirements

Cisco recommends that you have a high-level knowledge of these topics:

- Cisco IOS XR CLI Commands
- NCS 6008 Architecture

Components Used

This document is restricted to Cisco IOS XR Release 5.0.1 that runs on the NCS 6008.

The information in this document was created from the devices in a specific lab environment. All of the devices used in this document started with a cleared (default) configuration. If your network is live, make sure that you understand the potential impact of any command.

How to Use this Document

The NCS 6008 Platform Independent commands listed in this document have changed for the NCS 6008 and Cisco IOS XR Release 5.0.1. Each command is listed in alphabetical order. A summary of the changes as well as additional details regarding the specific differences is provided. Each command is linked to the appropriate Command Reference Guide when available.

Example CLI output and comparisons with CRS CLI outputs are included for many of the commands.

A significance of Minor or Major has been designated for each command in order to help the reader identify significant changes from those that are minor syntax, option, or output changes only.

attach

Refer to the attach section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: The option is available from the EXEC mode.

Details: In order to connect to a host from a remote location, use the **attach location** command in the System Admin EXEC and XR EXEC modes. This operation differs slightly from the **run attach** command on the CRS platform due to the separation of the System Admin (SysAdmin) and XR Virtual Machines (VMs) in Cisco IOS XR Release 5.0.1. For each linecard and route processor (RP), there exists a host shell for the System Admin VM and XR VM.

Significance: Minor

Here is how you attach to a linecard or RP from XR VM:

```
RP/0/RP0/CPU0:ncs6k#attach ?
location Specify a location
RP/0/RP0/CPU0:ncs6k#attach location ?
0/0/CPU0 Fully qualified location specification
0/7/CPU0 Fully qualified location specification
0/RP0/CPU0 Fully qualified location specification
0/RP1/CPU0 Fully qualified location specification
WORD Fully qualified location specification
```

```
RP/0/RP0/CPU0:ncs6k#attach location 0/0/CPU0
Mon Jan 20 10:03:53.863 UTC
[xr-vm_node0_0_CPU0:~]$ export PS1=#
#
#
#
#exit
```

```
RP/0/RP0/CPU0:ncs6k#attach location 0/RP A/CPU0
Mon Jan 20 10:04:08.287 UTC
[xr-vm_node0_RP1_CPU0:~]$ export PS1=#
#
#
#exit
```

Here is how you attach to a linecard or RP from the SysAdmin VM:

```
RP/0/RP0/CPU0:ncs6k#admin
Mon Jan 20 10:04:30.400 UTC
root connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0
```

```
sysadmin-vm:0_RP0# attach ?
Possible completions:
location node ID, in #/#/CPU# format
```

```
sysadmin-vm:0_RP0# attach location ?
Possible completions:
0/0 0/7 0/RP0 0/RP1
```

```
sysadmin-vm:0_RP0# attach location 0/0
Mon Jan 20 10:05:08.279 UTC
[sysadmin-vm:0_0:~]$ exec chvrf 2 bash
[sysadmin-vm:0_0:~]$
[sysadmin-vm:0_0:~]$
[sysadmin-vm:0_0:~]$ exit
```

```
sysadmin-vm:0_RP0# attach location 0/RP1
Mon Jan 20 10:05:27.960 UTC
[sysadmin-vm:0_RP1:~]$ exec chvrf 2 bash
[sysadmin-vm:0_RP1:~]$
[sysadmin-vm:0_RP1:~]$
[sysadmin-vm:0_RP1:~]$ exit
```

```
sysadmin-vm:0_RP0#
```

```
sysadmin-vm:0_RP0#
```

clear context

Refer to the clear context section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are minor behavior changes.

Details: It has the same CLI options.

Significance: Minor

copy

Refer to the copy section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: Some options are not available. It is difficult to copy between SysAdmin VM and XR VM.

Details: FTP is supported for file transfer under XR VM copy CLI.

The SysAdmin VM and XR VM filesystems are separate. Both the SysAdmin and XR VMs have **harddisk:** and **disk0:** directories. When you copy or install add packages from **disk0:** or **harddisk:**, the packages that are installed from the XR VM (iso, optional packages, XR SMUs) must be copied to the XR VM filesystem. SysAdmin VM SMUs are copied to the Admin VM filesystem before they perform the install add operation.

Significance: Major

```
RRP/0/RP0/CPU0:NCS6008-SJ#copy ?
 /recurse      Recursively list subdirectories encountered
 WORD          Copy from file
 access-list   Access lists
 disk0:        Copy from disk0: file system
 disk1:        Copy from disk1: file system
 ftp:          Copy from ftp: file system
 harddisk:     Copy from harddisk: file system
 prefix-list   Prefix lists
 running-config Copy from current system configuration
 tftp:         Copy from tftp: file system
 xml-schema    Copy XML schema files as a tar ball file (.tar.gz)
```

```
RP/0/RP0/CPU0:NCS6008-SJ#admin
Wed Feb 19 18:08:46.614 UTC
```

```
cisco connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0
sysadmin-vm:0_RP0# copy ?
```

Possible completions:

```
<WORD>        Name of the file
 config:       Copy from config: file system
 disk0:        Copy from disk0: file system
 harddisk:     Copy from harddisk: file system
 log:          Copy from log: file system
 recurse       Recursively list subdirectories encountered
 rootfs:       Copy from rootfs: file system
 running-config Copy running config to file, overwriting it if it exists
 tftp:         Copy from tftp: file system
```

describe

Summary: There are minor output changes. The command is available in XR VM and in SysAdmin VM.

The command output indicates that there are some changes to the TaskIDs needed in order to run XR commands on a CRS versus on the NCS-6008.

Details: When *describe* is used in the SysAdmin VM, it works for some commands but not for others. The SysAdmin VM version of this command output displays the Linux Operating System (OS) Command called in order to execute the command in SysAdmin VM. Since TaskIDs are not used in order to execute SysAdmin VM commands, the describe output does not include that information when used in SysAdmin VM.

Significance: Minor

RP/0/RP1/CPU0:NCS6008-A#**describe show install active**

The command is defined in instmgr_cmd.parser

User needs ALL of the following taskids:

root-system (READ) or cisco-support (READ) or root-lr (READ)

It will take the following actions:

Thu Jun 25 08:40:38.485 UTC

Spawn the process:

sdr_instcmd show install active

RP/0/RP0/CPU0:CRS-J#**describe show install active**

The command is defined in instmgr_cmds.parser

Node 0/RP0/CPU0 has file instmgr_cmds.parser for boot package
/disk0/hfr-os-mbi-4.3.1/0x100008/mbihfr-rp-x86e.vm from iosxr-infra

Package:

```
iosxr-infra
iosxr-infra V4.3.1[Default] IOS-XR Infra Package Definition
Vendor : Cisco Systems
Desc   : IOS-XR Infra Package Definition
Build  : Built on Sun May 12 03:53:02 UTC 2013
Source : By iox-bld2 in /auto/srcarchive7/production/4.3.1/all/workspace
for pie
Card(s): RP, RP-B, HRP, CRS-RP-X86, CRS8-RP-x86, CRS16-RP-x86, DRP,
40G-MS-C, 140G-MS-C, SP, SC
Restart information:
  Default:
    parallel impacted processes restart
Size Compressed/Uncompressed: 87MB/214MB (40%)
```

Component:

```
installmgr.x86e V0.0.5[r43x/12] On the box installation program
```

File:

```
instmgr_cmds.parser
Card(s)           : CRS-RP-X86, CRS8-RP-x86, CRS16-RP-x86
File type         : Default
Remotely-hosted   : No
Local view        : /pkg/parser/instmgr_cmds.parser
Local install path : /disk0/iosxr-infra-4.3.1/0x100008/parser/instmgr_cmds.parser
(Compressed)
Central install path : /disk0/iosxr-infra-4.3.1/0x100008/parser/instmgr_cmds.parser
```

```
(Compressed)
Uncompressed size   : 116KB
Compressed size     : 45KB
Uncompressed MD5    : 697582f5d5318bf583b5c3329adad088
Compressed MD5      : ef9cad3bf493e9f8173520b513a7c777
```

User needs ALL of the following taskids:

```
pkg-mgmt (READ)
```

It will take the following actions:

```
Tue Feb 11 21:57:54.803 UTC
```

```
Spawn the process:
```

```
instcmd show install active
```

```
RP/0/RP1/CPU0:NCS6008-A#admin
```

```
sysadmin-vm:0_RP1# describe show media
```

```
Thu Jun 25 09:09:59.573 UTC
```

```
Common
```

```
Source : clispec
```

```
File   : /opt/cisco/calvados/confd/etc/confd/schema/showmedia.cli
```

```
Callback [os command]
```

```
OS command : /opt/cisco/calvados/confd/etc/confd/scripts/show_media.sh
```

```
Help
```

```
display media info
```

```
Info
```

```
display media info
```

```
sysadmin-vm:0_RP1# run
```

```
Thu Jun 25 09:14:45.756 UTC
```

```
[sysadmin-vm:0_RP1:~]$ /opt/cisco/calvados/confd/etc/confd/scripts/show_media.sh
```

```
-----
Partition              Size      Used  Percent  Avail
-----
rootfs:                 2.9G     480M    18%     2.3G
log:                   494M     103M    22%     366M
config:                 494M      24M     6%     445M
disk0:                  965M      25M     3%     892M
harddisk:               37G      1.5G     5%      34G
-----
```

```
rootfs: = root file system (read-only)
```

```
log: = system log files (read-only)
```

```
config: = configuration storage (read-only)
```

dumpcore

Refer to the dumpcore section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are minor changes to the CLI options and behavior.

Details: The process corehelper is used instead of the dumper. When dumpcore running is executed on NCS, there is reduced output in the syslogs since the crashinfo is not written to the syslog by the dumper.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#dumpcore ?
```

```
running   Perform a core dump for a running process
```

```
suspended Suspend the process while generating core and resume afterwards
```

RP/0/RP0/CPU0:NCS6008-A#**dumpcore running admin-cli-proxy-xr_static**

Sat Jan 31 23:54:27.345 UTC

Dump core Succeeded

RP/0/RP0/CPU0:Jan 31 23:54:27.422 : corehelper[139]: dump_core starts, only one core is dumped at a time

RP/0/RP0/CPU0:Jan 31 23:54:27.600 : corehelper[139]: Copied core admin-cli-proxy-xr_static.14548.by.user.19700131-235427.xr-vm_node0_RP0_CPU0.9e781.core.gz to 0/RP0/CPU0:/misc/disk1

RP/0/RP0/CPU0:Jan 31 23:54:27.601 : corehelper[139]: Deleted core file admin-cli-proxy-xr_static.14548.by.user.19700131-235427.xr-vm_node0_RP0_CPU0.9e781.core.gz.

RP/0/RP0/CPU0:CRS-J#**dumpcore running bgp**

Fri Nov 15 17:56:33.834 UTC

RP/0/RP0/CPU0:Nov 15 17:56:33.852 : dumper[61]: %OS-DUMPER-7-DUMP_REQUEST : Dump request for process pkg/bin/bgp

RP/0/RP0/CPU0:Nov 15 17:56:33.853 : dumper[61]: %OS-DUMPER-7-DUMP_ATTRIBUTE : Dump request with attribute 7 for process pkg/bin/bgp

RP/0/RP0/CPU0:Nov 15 17:56:33.854 : dumper[61]: %OS-DUMPER-4-CORE_INFO : Core for pid = 549148 (pkg/bin/bgp) requested by pkg/bin/dumper_gen@node0_RP0_CPU0

RP/0/RP0/CPU0:Nov 15 17:56:33.854 : dumper[61]: %OS-DUMPER-7-PROC_PAGES : Process memory pages 581

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-6-FALLBACK_CHOICE : Fall back choice: 0(harddisk:/dumper) in use

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : EDI ESI EBP(fp) EXX

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : R0 1031b8bc 041ff980 041ff95c e899ab58

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : EBX EDX ECX EAX

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : R4 1031b99c 082657da 041ff8dc 0000000e

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : EIP(pc) CS EFL ESP

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : R8 082657da 000000f3 80001202 041ff8dc

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : SS

RP/0/RP0/CPU0:Nov 15 17:56:33.856 : dumper[61]: %OS-DUMPER-7-REGISTERS_INFO : R12 000000fb

RP/0/RP0/CPU0:Nov 15 17:56:33.857 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #0 0x82657da

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #1 0x81ef5d3

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #2 0x81f1605

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #3 0x81f287b

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #4 0xb439fb4

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #5 0x424d770

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-TRACE_BACK : #6 0x4202080

RP/0/RP0/CPU0:Nov 15 17:56:33.862 : dumper[61]: %OS-DUMPER-7-INSTALL_PKG_SHOW_FAILED : active installed packages show failed: Information not available

RP/0/RP0/CPU0:Nov 15 17:56:33.864 : dumper[61]: %OS-DUMPER-7-DLL_INFO_HEAD : DLL path Text addr. Text size Data addr. Data size Version

RP/0/RP0/CPU0:Nov 15 17:56:33.864 : dumper[61]: %OS-DUMPER-7-DLL_INFO : /hfr-os-4.1.2/0x100008/lib/libplatform.dll 0x08178000 0x0000a000 0x08182000 0x00001000 0

RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO : /lib/libsysmgr.dll 0x08186000 0x00018000 0x0819e000 0x00001000 0

RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO : /hfr-os-4.1.2/0x100008/lib/libcerrno.dll 0x0819f000 0x00003000 0x081a2000

0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libios.dll 0x081a3000 0x0002f000 0x081d2000
0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libss_common.dll 0x081d4000 0x00007000 0x081db000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libinfra.dll 0x081dc000 0x0003e000 0x0821a000
0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.865 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/lib/libltrace.dll 0x0821d000 0x0000b000 0x08228000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/lib_platform_infra_ltrace.dll 0x08229000 0x00001000
0x0822a000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libcsemlock.dll 0x0822b000 0x00003000 0x0822e000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpcds.dll 0x08233000 0x00008000 0x0823b000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/lib/libc.dll 0x08241000 0x0007c000 0x082bd000 0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/lib_procfs_util.dll 0x082c6000 0x00004000
0x082ca000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libsyslog.dll 0x082cb000 0x00004000 0x082cf000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libbackplane.dll 0x082d0000 0x00002000 0x082d2000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libnodeid.dll 0x082d3000 0x00009000 0x082dc000
0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.866 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpackage.dll 0x08341000 0x00062000 0x083a3000
0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libdebug.dll 0x083ba000 0x0000f000 0x083c9000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libnotify.dll 0x08400000 0x00030000 0x08430000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libinst_debug.dll 0x08431000 0x00003000 0x08434000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/lib_shmwin_pl_vm.dll 0x08444000 0x00001000
0x08445000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/lib_mutex_monitor.dll 0x08453000 0x00002000
0x08455000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libshmwin.dll 0x08456000 0x00012000 0x08468000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libcci_client.dll 0x085de000 0x0000b000 0x085e9000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libcci_hal.dll 0x085ea000 0x0000e000 0x085f8000
0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.867 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libtlv.dll 0x08c75000 0x00004000 0x08c79000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :

/hfr-os-4.1.2/0x100008/lib/lib_i2c_client_api.dll 0x08d9a000 0x00012000
0x08dac000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libsysdb.dll 0x08e00000 0x0003e000
0x08e3e000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libsysdbutils.dll 0x08e3f000 0x00012000
0x08e51000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libship.dll 0x08e80000 0x00007000 0x08e87000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libwd_notif.dll 0x08e88000 0x00008000
0x08e90000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpkgfs_query.dll 0x08ea9000 0x00002000
0x08eab000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libshmalloc.dll 0x08ebc000 0x00005000 0x08ec1000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libredcon.dll 0x08ec2000 0x00006000
0x08ec8000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.868 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpacket_common.dll 0x08ee1000 0x00015000
0x08ef6000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libgroup.dll 0x08ef7000 0x0001b000
0x08f12000 0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libgsputils.dll 0x08f24000 0x0000c000
0x08f30000 0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/hfr-base-4.1.2/0x100008/lib/redcon_plfm.dll 0x08fa3000 0x00003000
0x08fa6000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libinfra_nsr.dll 0x0901f000 0x00008000
0x09027000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/hfr-base-4.1.2/0x100008/lib/lib_cctl_client_api.dll 0x0903d000
0x0001d000 0x0905a000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_tlvlib.dll 0x09219000 0x00003000
0x0921c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libbag.dll 0x09223000 0x00007000
0x0922a000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/hfr-base-4.1.2/0x100008/lib/libfabaddr.dll 0x09267000 0x00003000
0x0926a000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libens.dll 0x09283000 0x00010000
0x09293000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.869 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/lib_spp_client.dll 0x092ac000 0x00012000
0x092be000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libnrsutils.dll 0x09337000 0x00005000
0x0933c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpacket.dll 0x093dc000 0x00012000 0x093ee000
0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libnrs.dll 0x094a0000 0x00007000
0x094a7000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :


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/disk0/iosxr-fwding-4.1.2/0x100008/lib/libifmgr.dll 0x09778000 0x00042000
0x097ba000 0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-6-BAD_PATH :
Choice 0() either not configured or bad path at <3524>. Trying next choice.
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libim_util.dll 0x097c4000 0x00021000
0x097e5000 0x00009000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-6-BAD_PATH :
Choice 1() either not configured or bad path at <3384>. Trying next choice.
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librpc.dll 0x09800000 0x00008000
0x09808000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-6-BAD_PATH :
Choice 2() either not configured or bad path at <3384>. Trying next choice.
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libasync.dll 0x09840000 0x0000d000
0x0984d000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.870 : dumper[61]: %OS-DUMPER-6-BAD_PATH :
Choice 3() either not configured or bad path at <3384>. Trying next choice.
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libcbp.dll 0x0984e000 0x00007000
0x09855000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libsysdbbackend.dll 0x099d0000
0x00006000 0x099d6000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libipaddr_cons.dll 0x09ae7000
0x0001f000 0x09b06000 0x00004000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libiparmaddr.dll 0x09b0a000
0x00002000 0x09b0c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libiparmtlv.dll 0x09b0d000 0x00002000
0x09b0f000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.871 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libbackend_sysdb.dll 0x09b4c000
0x00006000 0x09b52000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libbackend_parser.dll 0x09b53000
0x00003000 0x09b56000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libwd_evm.dll 0x09b83000 0x00004000
0x09b87000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/hfr-fwding-4.1.2/0x100008/lib/lib_ppfi_buffhdr.dll 0x09b88000
0x00014000 0x09b9c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/hfr-fwding-4.1.2/0x100008/lib/libhfr_buffhdr_hal.dll 0x09b9d000
0x00004000 0x09ba1000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libsysdbhelper.dll 0x09c1d000
0x00004000 0x09c21000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librsi.dll 0x0a0fc000 0x0000d000
0x0a109000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librsi_util.dll 0x0a11b000 0x00003000
0x0a11e000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.872 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libpacket_netio.dll 0x0a13e000 0x0000b000
0x0a149000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librsi_dbg.dll 0x0a14a000 0x00002000
0x0a14c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librp_isolation.dll 0x0a152000
```

0x00002000 0x0a154000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libnsr_platform.dll 0x0a1dc000 0x00003000
0x0a1df000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libpfi_ifh.dll 0x0a1fb000 0x00005000
0x0a200000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/hfr-os-4.1.2/0x100008/lib/libhfr_spp_client.dll 0x0a235000 0x00006000
0x0a23b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libpfi_util.dll 0x0a24c000 0x00002000
0x0a24e000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.873 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libxipc.dll 0x0a26f000 0x00004000
0x0a273000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_bgp_attr_util.dll 0x0a2af000
0x00002000 0x0a2b1000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libnsr_qad_client.dll 0x0a2cd000
0x00008000 0x0a2d5000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip6_acl.dll 0x0a2db000 0x0001a000
0x0a2f5000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libimattrclient.dll 0x0a2f9000
0x00018000 0x0a311000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip4_acl.dll 0x0a315000 0x00023000
0x0a338000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.874 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip6_acl_support.dll 0x0a354000
0x00004000 0x0a358000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libpcl.dll 0x0a359000 0x00021000
0x0a37a000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip4_acl_support.dll 0x0a395000
0x00002000 0x0a397000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip6_ma_las.dll 0x0a39a000
0x00008000 0x0a3a2000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libbsd_addr_presentation.dll 0x0a3ee000
0x00002000 0x0a3f0000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libip4.dll 0x0a406000 0x00008000
0x0a40e000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_addr.dll 0x0a4a3000 0x00003000
0x0a4a6000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libbfd_ltrace.dll 0x0a92a000
0x00008000 0x0a932000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.875 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip4_rib.dll 0x0a9cf000 0x00014000
0x0a9e3000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/lib_ip6_rib.dll 0x0ab5a000 0x0000f000
0x0ab69000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_rib.dll 0x0abae000 0x00012000
0x0abc0000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libsocket.dll 0x0acc9000 0x0001c000

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0x0ace5000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-6-FALLBACK_CHOICE :
Fall back choice: 4(dumper_harddisk:/dumper) in use
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/liboradock.dll 0x0ad07000 0x00013000
0x0ad1a000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.876 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/librasf.dll 0x0ad1b000 0x0000a000
0x0ad25000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libauto_dll.dll 0x0ad2b000 0x00005000
0x0ad30000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/librpl_util.dll 0x0ad34000 0x00002000
0x0ad36000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/librib_ora.dll 0x0ad37000 0x00004000
0x0ad3b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/liborashared.dll 0x0ad3c000
0x0000e000 0x0ad4a000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_policy_ora_v1_0_0.dll
0x0ad4b000 0x0003a000 0x0ad85000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_damp_ora_v1_0_0.dll 0x0ad8f000
0x00006000 0x0ad95000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libbfd_client.dll 0x0add7000
0x0000a000 0x0ade1000 0x00009000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.877 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/liblsd.dll 0x0ae04000 0x0000c000
0x0ae10000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_util_common.dll 0x0b433000
0x0001a000 0x0b44d000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_debug.dll 0x0b44f000
0x0000b000 0x0b45a000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_sysdb_util.dll 0x0b45c000
0x00018000 0x0b474000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_af_lib.dll 0x0b477000
0x00009000 0x0b480000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_vrf_import.dll 0x0b481000
0x00017000 0x0b498000 0x00077000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-5-CORE_FILE_NAME :
Core for process pkg/bin/bgp at harddisk:
/dumper/first.bgp_1036.by.dumper_gen.node0_RP0_CPU0.x86.Z on local_node
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_vrf_db.dll 0x0b50f000
0x00009000 0x0b518000 0x00003000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.878 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_bgp_attr_extcomm.dll 0x0b533000
0x00004000 0x0b537000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.879 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_vrf_util.dll 0x0b538000
0x00012000 0x0b54a000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.879 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_af.dll 0x0b54c000 0x0000f000
0x0b55b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.879 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_table.dll 0x0b55c000 0x00039000
0x0b595000 0x00002000 0
```

RP/0/RP0/CPU0:Nov 15 17:56:33.879 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_nbr.dll 0x0b597000 0x0000a000
0x0b5a1000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/librsi_prod.dll 0x0b5a2000 0x00004000
0x0b5a6000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_policy.dll 0x0b5a7000 0x00010000
0x0b5b7000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libpcl_v1_0_ora.dll 0x0b5b8000
0x00003000 0x0b5bb000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_sysdb.dll 0x0b5bc000 0x00034000
0x0b5f0000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libtcp_sso_client.dll 0x0b5f2000
0x00005000 0x0b5f7000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_aggregate.dll 0x0b5f8000
0x0000e000 0x0b606000 0x0003a000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.880 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_rib.dll 0x0b640000 0x00026000
0x0b666000 0x00002000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_rib_lookup.dll 0x0b668000
0x00003000 0x0b66b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_import.dll 0x0b66c000 0x00014000
0x0b680000 0x00006000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_scanner.dll 0x0b686000 0x0002b000
0x0b6b1000 0x0000a000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_label.dll 0x0b6bb000 0x0001a000
0x0b6d5000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_ipv4_unicast.dll 0x0b6d6000
0x00003000 0x0b6d9000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_vpnv4_unicast.dll 0x0b6da000
0x00003000 0x0b6dd000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.881 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_ipv6_unicast.dll 0x0b6de000
0x00003000 0x0b6e1000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_vpnv6_unicast.dll 0x0b708000
0x00003000 0x0b70b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libxp.dll 0x0b70c000 0x0001f000
0x0b72b000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-infra-4.1.2/0x100008/lib/libdom.dll 0x0b72c000 0x00004000
0x0b730000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/cisco_ipv6_lib.dll 0x0b731000
0x00003000 0x0b734000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libl2vpn_ad.dll 0x0b735000 0x00007000
0x0b73c000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_ipv6_addr_cache.dll 0x0b75a000
0x00003000 0x0b75d000 0x00001000 0
RP/0/RP0/CPU0:Nov 15 17:56:33.882 : dumper[61]: %OS-DUMPER-7-DLL_INFO :
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_ipv4_common.dll 0x0b787000
0x0000b000 0x0b792000 0x00001000 0

```
RP/0/RP0/CPU0:Nov 15 17:56:33.883 : dumper[61]: %OS-DUMPER-7-DLL_INFO :  
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_af_common.dll 0x0b793000  
0x00002000 0x0b795000 0x00001000 0  
RP/0/RP0/CPU0:Nov 15 17:56:33.883 : dumper[61]: %OS-DUMPER-7-DLL_INFO :  
/disk0/iosxr-routing-4.1.2/0x100008/lib/libbgp_ipv6_common.dll 0x0b811000  
0x0000b000 0x0b81c000 0x00001000 0  
RP/0/RP0/CPU0:Nov 15 17:56:33.883 : dumper[61]: %OS-DUMPER-7-DLL_INFO :  
/disk0/iosxr-infra-4.1.2/0x100008/lib/libip_bgp_attrbag.dll 0x0b88e000  
0x00002000 0x0b890000 0x00001000 0  
RP/0/RP0/CPU0:Nov 15 17:56:33.883 : dumper[61]: %OS-DUMPER-7-DLL_INFO :  
/disk0/iosxr-fwding-4.1.2/0x100008/lib/libipt_biscuit_bgp.dll 0x0b891000  
0x00005000 0x0b896000 0x00001000 0  
RP/0/RP0/CPU0:Nov 15 17:56:37.049 : dumper[61]: %OS-DUMPER-5-DUMP_SUCCESS :  
Core dump success  
RP/0/RP0/CPU0:Nov 15 17:56:37.420 : dumper[61]: %OS-DUMPER-6-CORE_MD5 :  
harddisk:/dumper/first.bgp_1036.by.dumper_gen.node0_RP0_CPU0.x86.Z has just  
been written. size:16907006 md5:ef2cd0fd4c45c434c03f858974033543
```

follow

Refer to the follow section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: The options change along with output.

Significance: Minor

install

Refer to the install section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are options changes along with the output. Available in both XR VM and SysAdmin VM mode.

Details: Release 5.0.1 only supports a single system upgrade install procedure for the router from the XR VM. A separate install of a release for the SysAdmin VM and XR VM is not supported in Release 5.0.1, except for Software Maintenance Update (SMU) install. SMUs for each VM (SysAdmin or XR) must be installed from the correct VM. Optional packages must be installed from the XR VM.

The *install prepare* command option is added in order to reduce upgrade/maintenance downtime. The *install prepare* command is not required.

The *install abort* option has been deprecated. There are no plans to support it in the future.

Install rollback has been removed in Release 5.0.1. A fallback/rollback to a release is treated as any other install process.

Install commit is not required and is implicit in Release 5.0.1. The *install commit* command is available in Release 5.0.1 but is not needed since the commit is automatic.

In Release 5.2.1, the *install commit* will stop being implicit and will require an explicit *install commit*.

In a future release, the ability to *install rollback* will be introduced along with the change to the *install commit* command.

Significance: Major

```
RP/0/RP0/CPU0:NCS#install ?
  activate    Activate software package(s)
  add         Add package file(s) to software repository
  commit     Commit changes to the active software
  deactivate  Deactivate software package(s)
  prepare    Prepare software package(s) to be activated
  remove     Remove package file(s) from software repository
  verify     verifies packages present on the router
RP/0/RP0/CPU0:TLAB97-NCS1#
RP/0/RP0/CPU0:TLAB97-NCS1#admin
Wed Dec 11 03:41:00.393 EST

admin connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0
sysadmin-vm:0_RP1# install ?
Possible completions:
  activate    Activate rpm(s) and iso and smu(s).
  add         add rpm(s) and iso to the software repository.
  commit     commit changes to the active software
  deactivate  deactivate rpm(s) and iso and smu(s).
  prepare    prepare rpm(s) and iso for activation.
  remove     remove rpm(s) and iso from install repository.
  verify     verifies packages present on the router
```

monitor processes

Refer to the monitor processes section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are minor option and output changes.

Details: The location option is not available.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#monitor processes ?
  dumbtty  Disable screen management
  <cr>

RP/0/RP0/CPU0:CRS-K#monitor processes ?
  dumbtty  Disable screen management
  location Location
  <cr>
```

show configuration

Refer to the show configuration section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: The *show configuration* command output is different from the classic XR.

Details: The keywords available have changed for the SysAdmin VM. The keywords for the XR VM remain the same as with classic XR.

Significance: Minor

XR VM – Same as Traditional IOS–XR

```
RP/0/RP1/CPU0:NCS6k#show config ?
backup System configuration backup information
commit Show commit information
failed Contents of failed configuration
history Display history of configuration events (up to 1500 events)
inconsistency Configuration inconsistencies
lock Configuration lock
persistent Show persistent configuration
removed Display configuration removed during install operations
rollback Show rollback information
running-config Current operating configuration
sessions Users with active configuration sessions
trace Show trace data for config shell
```

SysAdmin VM – (Only commit keyword shown as an option):

```
sysadmin-vm:0_RP1# show configuraiton ?
Possible completions:
commit Commit configuration changes
```

```
RP/0/RP1/CPU0:CRS-H(admin)#show configuration ?
commit Show commit information
failed Contents of the failed configuration
history Display history of configuration events (up to 1500 events)
inconsistency Configuration inconsistencies
lock Configuration lock
persistent Show persistent configuration
removed Display configuration removed during install operations
rollback Show rollback information
running Current operating configuration
sessions Users with active configuration sessions
```

show context

Refer to the show context section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are no significant changes to the CLI options. Minor CLI output changes.

Details: The directory where the core file is saved is not always displayed (*harddisk:* by default). The crashinfo files are not written to the same directory as the core files by default and are saved to the *disk0:/core* directory. The *show context* command and associated crashinfo file (.txt) includes backtrace and register information for each thread of the crashing process on the NCS 6008

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-SJ#show context
Wed Feb 19 12:25:31.999 UTC

node:      node0_RP0_CPU0
-----
Core for pid = 2117 (syslogd)
Core for process: syslogd_2117.by.11.20140219-122529.xr-vm_node0_RP0_CPU0.ddc58.core.gz
Core dump time: 2014-02-19 12:25:29.152358704 +0000

Process:
Core was generated by `syslogd'.

Signal information:
Program terminated with signal 11, Segmentation fault.

Faulting thread: 2117
```

Registers for Thread 2117

rax: 0xfffffffffffffffcc
rbx: 0x18
rcx: 0xfffffffffffffffcc
rdx: 0x40
rsi: 0x7fff640b9c40
rdi: 0x18
rbp: 0x7fff640b9fc0
rsp: 0x7fff640b9b90
r8: 0x0
r9: 0x200000
r10: 0xffffffff
r11: 0x293
r12: 0xbaef70
r13: 0x7fff640bb180
r14: 0x0
r15: 0x0
rip: 0x7fe0a588c683
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2117

#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0aa343636 in msg_receivev+0x29d from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#2 0x000000000041483a in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#3 0x00007fe0a57c6cce in __libc_start_main+0xfe from
/lib64/libc-2.12.so
#4 0x0000000000405869 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd

Registers for Thread 2366

rax: 0xffffffffffffe00
rbx: 0x7fe0ab5b0bf0
rcx: 0xfffffffffffffffcc
rdx: 0x7fe0ab5b0bac
rsi: 0x7fe0ab5b0bf0
rdi: 0xa
rbp: 0x7fe0ab5b0c80
rsp: 0x7fe0ab5b0b90
r8: 0x6e
r9: 0x101010101010101
r10: 0x22
r11: 0x293
r12: 0xa
r13: 0x7fe0ab5b0bac
r14: 0x7fe0ab673040
r15: 0x3
rip: 0x7fe0a588cc4d
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2366

```
#0 0x00007fe0a588cc4d in accept+0x2d from /lib64/libc-2.12.so
#1 0x00007fe0aa3537dd in lwm_debug_wait_for_conns+0xbe from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#2 0x00007fe0aa353a2a in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#3 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#4 0x0000000000000003 in ?? ()
```

Registers for Thread 2367

```
rax: 0xffffffffffffffff
rbx: 0x7fe0ab52fe30
rcx: 0xffffffffffffffff
rdx: 0x0
rsi: 0x7fe0ab52fe30
rdi: 0x7fe0ab52fdb0
rbp: 0x7fe0ab52fee0
rsp: 0x7fe0ab52fcf0
r8: 0x0
r9: 0x7fe0ab530700
r10: 0x8
r11: 0x246
r12: 0x7fe0a559cc80
r13: 0x7fe0ab5309c0
r14: 0x7fe0ab673040
r15: 0x7fe0ab52fe30
rip: 0x7fe0a57dc7af
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2367

```
#0 0x00007fe0a57dc7af in sigwaitinfo+0xdf from /lib64/libc-2.12.so
#1 0x00007fe0aa36a1a0 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a559294b in start_thread+0x6b from /lib64/libpthread-2.12.so
#4 0x02c570128022879a in ?? ()
```

Registers for Thread 2369

```
rax: 0xffffffffffffffff
rbx: 0x1
rcx: 0xffffffffffffffff
rdx: 0x40
rsi: 0x7fe08eb6abb0
rdi: 0x4
rbp: 0x7fe08eb6aee0
rsp: 0x7fe08eb6aa60
r8: 0x7fe0ab44a4a0
r9: 0x941
r10: 0xffffffff
r11: 0x293
r12: 0x0
r13: 0xb00001
r14: 0x4
r15: 0x3b
rip: 0x7fe0a588c683
eflags: 0x293
```

cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2369

#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0aa34fc0c in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so

Registers for Thread 2370

rax: 0xfffffffffffffc
rbx: 0xb67b70
rcx: 0xfffffffffffff
rdx: 0x20
rsi: 0xb67e00
rdi: 0x6
rbp: 0xb5e9c0
rsp: 0x7fe08eae9790
r8: 0xb68000
r9: 0x0
r10: 0xfffffffff
r11: 0x293
r12: 0xb67e00
r13: 0xe
r14: 0x0
r15: 0xb5e9c0
rip: 0x7fe0a588c683
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2370

#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0a277e236 in ?? () from /usr/lib64/libevent-2.0.so.5.0.1
#2 0x00007fe0a276d076 in event_base_loop+0x1c6 from
/usr/lib64/libevent-2.0.so.5.0.1
#3 0x00007fe0a29a2a52 in levn_block+0x2a from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
#4 0x00007fe0aa36d216 in event_block+0x500 from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#5 0x00007fe0aa34dae5 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#6 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so

Registers for Thread 2372

rax: 0xffffffffffffe00
rbx: 0x7fe0ab608008
rcx: 0xfffffffffffff
rdx: 0x20
rsi: 0x0
rdi: 0x7fe0ab608034
rbp: 0x7fe08ea68ee0
rsp: 0x7fe08ea68e28
r8: 0x0

```
r9: 0x0
r10: 0x0
r11: 0x246
r12: 0x7fe0a559cc80
--More-- --More-- filtering...
```

Registers for Thread 2370

```
rax: 0xffffffffffffc
rbx: 0xb67b70
rcx: 0xfffffffffffff
rdx: 0x20
rsi: 0xb67e00
rdi: 0x6
rbp: 0xb5e9c0
rsp: 0x7fe08eae9790
r8: 0xb68000
r9: 0x0
r10: 0xfffffffff
r11: 0x293
r12: 0xb67e00
r13: 0xe
r14: 0x0
r15: 0xb5e9c0
rip: 0x7fe0a588c683
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2370

```
#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0a277e236 in ?? () from /usr/lib64/libevent-2.0.so.5.0.1
#2 0x00007fe0a276d076 in event_base_loop+0x1c6 from
/usr/lib64/libevent-2.0.so.5.0.1
#3 0x00007fe0a29a2a52 in levm_block+0x2a from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
#4 0x00007fe0aa36d216 in event_block+0x500 from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#5 0x00007fe0aa34dae5 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#6 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
```

Registers for Thread 2372

```
rax: 0xffffffffffffe00
rbx: 0x7fe0ab608008
rcx: 0xfffffffffffff
rdx: 0x20
rsi: 0x0
rdi: 0x7fe0ab608034
rbp: 0x7fe08ea68ee0
rsp: 0x7fe08ea68e28
r8: 0x0
r9: 0x0
r10: 0x0
r11: 0x246
r12: 0x7fe0a559cc80
r13: 0x7fe08ea699c0
--More-- --More-- r14: 0x7fe0ab673040
r15: 0x3
rip: 0x7fe0a55969ac
eflags: 0x246
cs: 0x33
```

ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2372

#0 0x00007fe0a55969ac in pthread_cond_wait@GLIBC_2.3.2+0xcc from
/lib64/libpthread-2.12.so
#1 0x00007fe0a5b22672 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosag.so
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so

Registers for Thread 2417

rax: 0xfffffffffffffe00
rbx: 0x0
rcx: 0xfffffffffffff
rdx: 0x0
rsi: 0x0
rdi: 0x11
rbp: 0x7fe08e8ceee0
rsp: 0x7fe08e8ced00
r8: 0x2
r9: 0x971
r10: 0x80000
r11: 0x246
r12: 0x7fe0ab452640
r13: 0x7fe08e8cf9c0
r14: 0x7fe0ab673040
r15: 0x3
rip: 0x7fe0a588d52f
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2417

#0 0x00007fe0a588d52f in accept4+0x5f from /lib64/libc-2.12.so
#1 0x00007fe0ab248557 in backing_thread+0xe2 from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmalloc_stat.so.0.0.1
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so

Registers for Thread 2544

rax: 0xfffffffffffffc
rbx: 0xbb6290
rcx: 0xfffffffffffff
rdx: 0x20
rsi: 0xbb6560
rdi: 0x1f
rbp: 0xbb6520
rsp: 0x7fe08efa0b40
r8: 0x1
r9: 0x9f0
r10: 0xffffffff
r11: 0x293
r12: 0xbb6560
r13: 0xd
r14: 0x0

r15: 0xbb6520
rip: 0x7fe0a588c683
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2544

#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0a277e236 in ?? () from /usr/lib64/libevent-2.0.so.5.0.1
#2 0x00007fe0a276d076 in event_base_loop+0x1c6 from
/usr/lib64/libevent-2.0.so.5.0.1
#3 0x00007fe0a29a2a52 in levmm_block+0x2a from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
#4 0x00007fe0aa36d216 in event_block+0x500 from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#5 0x0000000000411de1 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#6 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#7 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so

Registers for Thread 2545

rax: 0x0
rbx: 0x7fe086ba82b0
rcx: 0xffffffffffffffff
rdx: 0x626380
rsi: 0x0
rdi: 0x7fe08ed1ca00
rbp: 0x7fe08ed1eee0
rsp: 0x7fe08ed1c980
r8: 0x20305550432f30
r9: 0x6320612064657473
r10: 0x20666f2068736172
r11: 0x293
r12: 0x7fe08ed1cbc0
r13: 0x7fe08ed1ca20
r14: 0x1
r15: 0x0
rip: 0x7fe0a584feed
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 2545

#0 0x00007fe0a584feed in __nanosleep+0x2d from /lib64/libc-2.12.so
#1 0x0000000000413316 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so

Registers for Thread 2546

rax: 0xfffffffffffffc
rbx: 0x7fe08ec9de20
rcx: 0xffffffffffffffff
rdx: 0x0

```
rsi: 0x0
rdi: 0x7fe08ec9de20
rbp: 0x7fe08ec9deac
rsp: 0x7fe08ec9d2c0
r8: 0x0
r9: 0x80
r10: 0x8
r11: 0x246
r12: 0x7fe08ec9d3a0
r13: 0x7fe08ec9daf0
r14: 0x7fe08ec9deac
r15: 0x7fe08ec9de20
rip: 0x7fe0a57dba08
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2546

```
#0 0x00007fe0a57dba08 in sigwait+0xc8 from /lib64/libc-2.12.so
#1 0x0000000000418349 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so
```

Registers for Thread 2547

```
rax: 0xffffffffffffffffc
rbx: 0x7fe08ec1ce20
rcx: 0xffffffffffffffff
rdx: 0x0
rsi: 0x0
rdi: 0x7fe08ec1ce20
rbp: 0x7fe08ec1ceac
rsp: 0x7fe08ec1be50
r8: 0x0
r9: 0x80
r10: 0x8
r11: 0x246
r12: 0x7fe08ec1cbf5
r13: 0x7fe08ec1cbf5
r14: 0x7fe0ab673040
r15: 0x7fe08ec1bf70
rip: 0x7fe0a57dba08
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2547

```
#0 0x00007fe0a57dba08 in sigwait+0xc8 from /lib64/libc-2.12.so
#1 0x0000000000416b9d in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so
```

Registers for Thread 2548

```
rax: 0xffffffffffffffffc
rbx: 0x7fe08e7cde20
rcx: 0xfffffffffffffffff
rdx: 0x0
rsi: 0x0
rdi: 0x7fe08e7cde20
rbp: 0x7fe08e7cdeac
rsp: 0x7fe08e7cd5d0
r8: 0x0
r9: 0x80
r10: 0x8
r11: 0x246
r12: 0xc1a6c0
r13: 0x7fe08e7cd6c0
r14: 0xa5
r15: 0x7fe08e7cdaf0
rip: 0x7fe0a57dba08
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2548

```
#0 0x00007fe0a57dba08 in sigwait+0xc8 from /lib64/libc-2.12.so
#1 0x000000000041547d in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so
```

Registers for Thread 2549

```
rax: 0xffffffffffffffffc
rbx: 0x7fe08e74ce20
rcx: 0xfffffffffffffffff
rdx: 0x0
rsi: 0x0
rdi: 0x7fe08e74ce20
rbp: 0x7fe08e74ceac
rsp: 0x7fe08e74c5a0
r8: 0x0
r9: 0x80
r10: 0x8
r11: 0x246
r12: 0x0
r13: 0x7fe08e74caf0
r14: 0x0
r15: 0x7fe08e74c6e0
rip: 0x7fe0a57dba08
eflags: 0x246
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0
```

Backtrace for Thread 2549

```
#0 0x00007fe0a57dba08 in sigwait+0xc8 from /lib64/libc-2.12.so
#1 0x0000000000416047 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
```

#3 0x00007fe0a588c08d in clone+0x6d from /lib64/libc-2.12.so

Registers for Thread 3289

rax: 0xffffffffffffffffc
rbx: 0x8
rcx: 0xfffffffffffffffff
rdx: 0x20
rsi: 0x7fe08e1b7d30
rdi: 0x4d
rbp: 0x7fe08e1b7ee0
rsp: 0x7fe08e1b7a70
r8: 0x0
r9: 0x0
r10: 0xfffffffff
r11: 0x293
r12: 0x1
r13: 0x7fe08e1b7d48
r14: 0x4d
r15: 0x51
rip: 0x7fe0a588c683
eflags: 0x293
cs: 0x33
ss: 0x2b
ds: 0x0
es: 0x0
fs: 0x0
gs: 0x0

Backtrace for Thread 3289

#0 0x00007fe0a588c683 in epoll_wait+0x33 from /lib64/libc-2.12.so
#1 0x00007fe0aa32f8a6 in ?? () from
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinfra.so
#2 0x00007fe0a55929bc in start_thread+0xdc from /lib64/libpthread-2.12.so
#3 0x00500001fccc920a in ?? ()

Mapping information

2117: syslogd
000000000400000 148K r-x-- /opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
0000000000625000 8K rw--- /opt/cisco/XR/packages/iosxr-os.rp-5.0.1/sbin/syslogd
0000000000627000 48K rw--- [anon]
0000000000b4e000 880K rw--- [anon]
0000000080000000 1920K ---s- /dev/zero (deleted)
00000000801e0000 40K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/header
00000000801ea000 24K ---s- /dev/zero (deleted)
00000000801f0000 36K rw-s- /dev/shm/dev/shmem/shmwin/im_db/header
00000000801f9000 28K ---s- /dev/zero (deleted)
0000000080200000 36K rw-s- /dev/shm/dev/shmem/shmwin/im_rd/header
0000000080209000 147624K ---s- /dev/zero (deleted)
0000000089233000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x89233000
000000008923b000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x8923b000
0000000089243000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x89243000
000000008924b000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x8924b000
0000000089253000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x89253000
000000008925b000 8K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x8925b000
000000008925d000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x8925d000
0000000089265000 32K rw-s- /dev/shm/dev/shmem/shmwin/im_rules/0x89265000
000000008926d000 1024K r--s- /dev/shm/dev/shmem/shmwin/im_db/0x8926d000
000000008936d000 1024K rw-s- /dev/shm/dev/shmem/shmwin/im_rd/0x8936d000
000000008946d000 104K rw-s- /dev/shm/dev/shmem/shmwin/im_rd/0x8946d000
0000000089487000 4328K ---s- /dev/zero (deleted)
00000000898c1000 104K r--s- /dev/shm/dev/shmem/shmwin/im_db/0x898c1000
00000000898db000 1940628K ---s- /dev/zero (deleted)


```

00007fe0868dc000 122072K rw-s- /dev/shm/logging_buffer
00007fe08e012000 56K rw-s- /dev/shmem/ltrace/shmwin/lib/err_b1_oaef
00007fe08e020000 16K rw-s- /dev/shmem/ltrace/shmwin/lib/err
00007fe08e024000 160K rw-s- /dev/shm/cdm_aqsm_services_db
00007fe08e04c000 864K ---s- /dev/shm/cdm_aqsm_services_db
00007fe08e124000 40K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/dbg_b2_o846
00007fe08e12e000 40K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/api_b1_o846
00007fe08e138000 4K ----- [ anon ]
00007fe08e139000 512K rw--- [ anon ]
00007fe08e1b9000 5120K rw-s- /dev/shm/dev/shmem/sysmgr_shmem
00007fe08e6b9000 56K rw-s- /dev/shmem/ltrace/epm/issu_b1_o803
00007fe08e6c7000 16K rw-s- /dev/shmem/ltrace/epm/issu
00007fe08e6cd000 4K ----- [ anon ]
00007fe08e6ce000 512K rw--- [ anon ]
00007fe08e74e000 4K ----- [ anon ]
00007fe08e74f000 512K rw--- [ anon ]
00007fe08e7cf000 16K rw-s- /dev/shmem/ltrace/sysdb/clientlib/file
00007fe08e7d3000 16K rw-s- /dev/shmem/ltrace/sysdb/clientlib/event
00007fe08e7d7000 16K rw-s- /dev/shmem/ltrace/sysdb/clientlib/suspend
00007fe08e7db000 12K rw-s- /dev/shmem/ltrace/sysdb/clientlib/vicr
00007fe08e7de000 12K rw-s- /dev/shmem/ltrace/sysdb/clientlib/edm_access
00007fe08e7e1000 40K rw-s- /dev/shmem/ltrace/sysdb/clientlib/recon-rst_tmo_b2_o803
00007fe08e7eb000 40K rw-s- /dev/shmem/ltrace/sysdb/clientlib/recon-rst_tmo_b1_o803
00007fe08e7f5000 12K rw-s- /dev/shmem/ltrace/sysdb/clientlib/recon-rst_tmo
00007fe08e7f8000 12K rw-s- /dev/shmem/ltrace/install/insthelper
00007fe08e7fb000 12K rw-s- /dev/shmem/ltrace/install/instdir
00007fe08e7fe000 8K rw-s- /dev/shmem/ltrace/im/ochn_evt
00007fe08e800000 8K rw-s- /dev/shmem/ltrace/im/ochn_msg
00007fe08e802000 136K rw-s- /dev/shmem/ltrace/im/client--
00007fe08e824000 8K rw-s- /dev/shmem/ltrace/im/register
00007fe08e826000 8K rw-s- /dev/shmem/ltrace/im/resync--
00007fe08e828000 8K rw-s- /dev/shmem/ltrace/im/replcate
00007fe08e82a000 8K rw-s- /dev/shmem/ltrace/im/dpc-----
00007fe08e82c000 8K rw-s- /dev/shmem/ltrace/im/attr_chg
00007fe08e82e000 8K rw-s- /dev/shmem/ltrace/im/caps_add
00007fe08e830000 8K rw-s- /dev/shmem/ltrace/im/ifcreate
00007fe08e832000 12K rw-s- /dev/shmem/ltrace/im/if_exist
00007fe08e835000 8K rw-s- /dev/shmem/ltrace/im/history-
00007fe08e837000 12K rw-s- /dev/shmem/ltrace/im/mgmt----
00007fe08e83a000 8K rw-s- /dev/shmem/ltrace/im/sys-fast
00007fe08e83c000 12K rw-s- /dev/shmem/ltrace/im/sys-slow
00007fe08e83f000 12K rw-s- /dev/shmem/ltrace/im/errors-s
00007fe08e842000 16K rw-s- /dev/shmem/ltrace/im/errors-o
00007fe08e846000 12K rw-s- /dev/shmem/ltrace/im/errors-i
00007fe08e849000 12K rw-s- /dev/shmem/ltrace/install/notify_error
00007fe08e84c000 12K rw-s- /dev/shmem/ltrace/install/notify
00007fe08e84f000 4K ----- [ anon ]
00007fe08e850000 512K rw--- [ anon ]
00007fe08e8d0000 36K rw-s- /dev/shmem/ltrace/install/instdir_loadpath_error
00007fe08e8d9000 12K rw-s- /dev/shmem/ltrace/install/instdir_loadpath
00007fe08e8dc000 52K rw-s- /dev/shmem/ltrace/install/inst_io_error
00007fe08e8e9000 1024K rw-s- /dev/shm/cdm_aqsm_services_db
00007fe08e9e9000 4K ----- [ anon ]
00007fe08e9ea000 512K rw--- [ anon ]
00007fe08ea6a000 4K ----- [ anon ]
00007fe08ea6b000 512K rw--- [ anon ]
00007fe08eaeb000 4K ----- [ anon ]
00007fe08eaec000 512K rw--- [ anon ]
00007fe08eb6e000 4K rw-s- /dev/shm/dev/shmem/ship_data_0
00007fe08eb6f000 12K rw-s- /dev/shmem/ltrace/ip_addr_c_data_trace_190
00007fe08eb72000 12K rw-s- /dev/shmem/ltrace/ip_addr_c_ctrl_trace_190
00007fe08eb75000 8K rw-s- /dev/shm/dev/shmem/shmwin_svr/window_grp_stats
00007fe08eb77000 80K rw-s- /dev/shmem/ltrace/sysdb/clientlib/recon-rst_tmo_b3_o803
00007fe08eb8b000 32K rw-s- /dev/shmem/ltrace/aqsmllib/190/debug_b1_o846
00007fe08eb93000 40K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/dbg_b1_o846
00007fe08eb9d000 4K ----- [ anon ]

```

```

00007fe08eb9e000    512K rw---    [ anon ]
00007fe08ec1e000     4K -----    [ anon ]
00007fe08ec1f000    512K rw---    [ anon ]
00007fe08ec9f000     4K -----    [ anon ]
00007fe08eca0000    512K rw---    [ anon ]
00007fe08eefe000    56K rw-s-    /dev/shmem/ltrace/syslog/slow_b1_o846
00007fe08ef0c000    80K rw-s-    /dev/shmem/ltrace/lwmlib/1_syslogd/dbg_b3_o846
00007fe08ef20000     4K rw-s-    /dev/shm/logging_buffer
00007fe08ef21000     4K -----    [ anon ]
00007fe08ef22000    512K rw---    [ anon ]
00007fe08efa2000     4K -----    [ anon ]
00007fe08efa3000    512K rw---    [ anon ]
00007fe08f023000   2904K rw-s-    /dev/shm/tmp/syslogd_msg_header_buffer
00007fe08f2f9000     8K rw-s-    /dev/shmem/ltrace/syslog/lib/read_error
00007fe08f2fb000     4K rw-s-    /dev/shm/dev/shmem/ship_data_0
00007fe08f2fc000    32K rw-s-    /dev/shmem/ltrace/aqsmllib/190/api_b1_o846
00007fe08f304000     8K rw-s-    /dev/shmem/ltrace/syslog/fast
00007fe08f306000    16K rw-s-    /dev/shmem/ltrace/syslog/slow
00007fe08f30a000    16K rw-s-    /dev/shmem/ltrace/syslog/error
00007fe08f30e000   224K rw-s-    /dev/shm/dev/shmem/ship_data_0
00007fe08f346000   132K rw-s-    /dev/shm/dev/shmem/ship_data_0
00007fe08f367000    32K rw-s-    /dev/shmem/ltrace/cdm/190/api_b1_o846
00007fe08f36f000     8K rw-s-    /dev/shmem/ltrace/pfi_ifh/fallback
00007fe08f371000    12K rw-s-    /dev/shmem/ltrace/alm_loc_fast
00007fe08f374000    24K rw-s-    /dev/shmem/ltrace/alm_loc_slow
00007fe08f37a000   112K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libreplicator.so
00007fe08f396000   2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libreplicator.so
00007fe08f595000     8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libreplicator.so
00007fe08f597000   488K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libchkpt.so
00007fe08f611000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libchkpt.so
00007fe08f810000    16K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libchkpt.so
00007fe08f814000     4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_cardinfo.so
00007fe08f815000   2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_cardinfo.so
00007fe08fa14000     4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_cardinfo.so
00007fe08fa15000    16K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl.so
00007fe08fa19000   2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl.so
00007fe08fc18000     4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl.so
00007fe08fc19000     4K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_ltracedebug.so
00007fe08fcla000   2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_ltracedebug.so
00007fe08fel1a000     4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_ltracedebug.so
00007fe08fel1b000     4K r-x--
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_ifib_platform_com.so
00007fe08felc000   2044K -----
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_ifib_platform_com.so
00007fe09001b000     4K rw---
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_ifib_platform_com.so
00007fe09001c000     4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp-5.0.1/lib/liblpts_ifib_platform.so
00007fe09001d000   2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp-5.0.1/lib/liblpts_ifib_platform.so
00007fe09021c000     4K rw---

```

```
/opt/cisco/XR/packages/iosxr-infra.rp-5.0.1/lib/liblpts_ifib_platform.so
00007fe09021d000    56K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_mrt.so
00007fe09022b000   2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_mrt.so
00007fe09042b000    4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_mrt.so
00007fe09042c000    4K r-x--
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_pa_dlvr_list.so
00007fe09042d000   2048K -----
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_pa_dlvr_list.so
00007fe09062d000    4K rw---
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/liblpts_pa_dlvr_list.so
00007fe09062e000    4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_ifc.so
00007fe09062f000   2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_ifc.so
00007fe09082e000    4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_ifc.so
00007fe09082f000   156K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libnotify.so
00007fe090856000   2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libnotify.so
00007fe090a56000    8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libnotify.so
00007fe090a58000   24K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath_file_mgmt.so
00007fe090a5e000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath_file_mgmt.so
00007fe090c5d000    4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath_file_mgmt.so
00007fe090c5e000   28K r-x--
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libinst_inv.so
00007fe090c65000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libinst_inv.so
00007fe090e64000    4K rw---
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libinst_inv.so
00007fe090e65000   16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_mem.so
00007fe090e69000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_mem.so
00007fe091068000    4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_mem.so
00007fe091069000   144K r-x-- /usr/lib64/libfuse.so.2.8.7
00007fe09108d000   2048K ----- /usr/lib64/libfuse.so.2.8.7
00007fe09128d000   72K rw--- /usr/lib64/libfuse.so.2.8.7
00007fe09129f000    4K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv6_acl_nh.so
00007fe0912a0000   2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv6_acl_nh.so
00007fe09149f000    4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv6_acl_nh.so
00007fe0914a0000    4K rw--- [ anon ]
00007fe0914a1000    4K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_ltrace.so
00007fe0914a2000   2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_ltrace.so
00007fe0916a2000    4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_ltrace.so
00007fe0916a3000   16K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_support.so
00007fe0916a7000   2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_support.so
00007fe0918a6000    4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl_support.so
00007fe0918a7000    4K rw--- [ anon ]
```

```
00007fe0918a8000      12K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_common.so
00007fe0918ab000     2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_common.so
00007fe091aaa000       4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libacl_common.so
00007fe091aab000      32K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_tree.so
00007fe091ab3000     2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_tree.so
00007fe091cb2000       4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_tree.so
00007fe091cb3000      28K rw--- [ anon ]
00007fe091cba000       4K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv4_acl_nh.so
00007fe091cbb000     2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv4_acl_nh.so
00007fe091ebb000       4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp-5.0.1/lib/libipv4_acl_nh.so
00007fe091ebc000       4K rw--- [ anon ]
00007fe091ebd000      32K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_edm.so
00007fe091ec5000     2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_edm.so
00007fe0920c4000       8K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_edm.so
00007fe0920c6000       4K rw--- [ anon ]
00007fe0920c7000       8K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_support.so
00007fe0920c9000     2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_support.so
00007fe0922c9000       4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl_support.so
00007fe0922ca000      20K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_api.so
00007fe0922cf000     2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_api.so
00007fe0924ce000       4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_api.so
00007fe0924cf000       4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ltrace.so
00007fe0924d0000     2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ltrace.so
00007fe0926cf000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ltrace.so
00007fe0926d0000      24K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ifib.so
00007fe0926d6000     2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ifib.so
00007fe0928d6000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_ifib.so
00007fe0928d7000      16K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_pa.so
00007fe0928db000     2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_pa.so
00007fe092ada000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_pa.so
00007fe092adb000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_severity.so
00007fe092adc000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_severity.so
00007fe092cdb000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_severity.so
00007fe092cdc000      16K r-x--
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libpanini_fwplib.so
00007fe092ce0000     2048K -----
```

```
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libpanini_fwplib.so
00007fe092ee0000      4K rw---
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libpanini_fwplib.so
00007fe092ee1000      8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libniantic.so
00007fe092ee3000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libniantic.so
00007fe0930e2000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libniantic.so
00007fe0930e3000      4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libipnodeid.so
00007fe0930e4000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libipnodeid.so
00007fe0932e3000      4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libipnodeid.so
00007fe0932e4000      4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid_pd.so
00007fe0932e5000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid_pd.so
00007fe0934e4000      4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid_pd.so
00007fe0934e5000      4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds_hex_dump.so
00007fe0934e6000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds_hex_dump.so
00007fe0936e5000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds_hex_dump.so
00007fe0936e6000     76K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcdr_invmgr_capi_proto.so
00007fe0936f9000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcdr_invmgr_capi_proto.so
00007fe0938f8000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcdr_invmgr_capi_proto.so
00007fe0938f9000     56K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libxr_ds_capi.so
00007fe093907000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libxr_ds_capi.so
00007fe093b07000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libxr_ds_capi.so
00007fe093b08000     84K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libinstmsg_proto.so
00007fe093bd000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libinstmsg_proto.so
00007fe093d1c000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libinstmsg_proto.so
00007fe093d1d000    100K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libifc.so
00007fe093d36000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libifc.so
00007fe093f35000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libifc.so
00007fe093f36000    696K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librds.so
00007fe093fe4000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librds.so
00007fe0941e3000     12K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librds.so
00007fe0941e6000     48K rw---      [ anon ]
00007fe0941f2000    164K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage_md5.so
00007fe09421b000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage_md5.so
00007fe09441a000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage_md5.so
00007fe09441b000     60K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpie.so
```

```
00007fe09442a000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpie.so
00007fe09462a000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpie.so
00007fe09462b000        16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_debug.so
00007fe09462f000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_debug.so
00007fe09482f000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_debug.so
00007fe094830000         8K rw--- [ anon ]
00007fe094832000        12K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf_switch_api.so
00007fe094835000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf_switch_api.so
00007fe094a34000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf_switch_api.so
00007fe094a35000       304K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath.so
00007fe094a81000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath.so
00007fe094c80000         8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libloadpath.so
00007fe094c82000        24K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io_device.so
00007fe094c88000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io_device.so
00007fe094e87000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io_device.so
00007fe094e88000         4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_reset.so
00007fe094e89000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_reset.so
00007fe095088000         4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_reset.so
00007fe095089000         4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_flash.so
00007fe09508a000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_flash.so
00007fe095289000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_flash.so
00007fe09528a000         8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_log.so
00007fe09528c000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_log.so
00007fe09548b000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_log.so
00007fe09548c000         4K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_ltrace.so
00007fe09548d000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_ltrace.so
00007fe09568c000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_ltrace.so
00007fe09568d000        24K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_shm.so
00007fe095693000    2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_shm.so
00007fe095893000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_shm.so
00007fe095894000       112K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_proto.so.0.0.1
00007fe0958b0000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_proto.so.0.0.1
00007fe095aaf000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_proto.so.0.0.1
00007fe095ab0000        56K r-x--
```

```
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_capi.so.0.0.1
00007fe095abe000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_capi.so.0.0.1
00007fe095cbd000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcm_capi.so.0.0.1
00007fe095cbe000     36K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libavl.so
00007fe095cc7000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libavl.so
00007fe095ec6000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libavl.so
00007fe095ec7000     72K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libasync.so
00007fe095ed9000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libasync.so
00007fe0960d9000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libasync.so
00007fe0960da000         8K rw--- [ anon ]
00007fe0960dc000     20K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libnrsutils.so
00007fe0960e1000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libnrsutils.so
00007fe0962e0000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libnrsutils.so
00007fe0962e1000    320K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_proto.so
00007fe096331000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_proto.so
00007fe096530000     12K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_proto.so
00007fe096533000    160K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl.so
00007fe09655b000    2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl.so
00007fe09675b000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv6_acl.so
00007fe09675c000         4K rw--- [ anon ]
00007fe09675d000    216K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl.so
00007fe096793000    2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl.so
00007fe096993000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libipv4_acl.so
00007fe096994000         4K rw--- [ anon ]
00007fe096995000    100K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_proto.so
00007fe0969ae000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_proto.so
00007fe096bae000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_proto.so
00007fe096baf000         4K rw--- [ anon ]
00007fe096bb0000     12K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmlv.so
00007fe096bb3000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmlv.so
00007fe096db2000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmlv.so
00007fe096db3000     28K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtlv.so
00007fe096dba000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtlv.so
00007fe096fb9000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtlv.so
00007fe096fba000     84K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_transport_generic.so
00007fe096fcf000    2044K -----
```

```
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_transport_generic.so
00007fe0971ce000      12K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblpts_transport_generic.so
00007fe0971d1000       4K rw--- [ anon ]
00007fe0971d2000      32K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libpa_client_generic.so
00007fe0971da000     2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libpa_client_generic.so
00007fe0973d9000       8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libpa_client_generic.so
00007fe0973db000       8K rw--- [ anon ]
00007fe0973dd000       4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librcmd_xform.so
00007fe0973de000     2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librcmd_xform.so
00007fe0975de000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librcmd_xform.so
00007fe0975df000      16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_sync.so
00007fe0975e3000     2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_sync.so
00007fe0977e3000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_sync.so
00007fe0977e4000       4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_ether_nodeid.so
00007fe0977e5000     2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_ether_nodeid.so
00007fe0979e4000       4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_ether_nodeid.so
00007fe0979e5000      36K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcbp.so
00007fe0979ee000     2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcbp.so
00007fe097bee000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcbp.so
00007fe097bef000      12K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libelib.so
00007fe097bf2000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libelib.so
00007fe097df1000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libelib.so
00007fe097df2000       8K r-x--
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libsse_fwplib.so
00007fe097df4000     2048K -----
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libsse_fwplib.so
00007fe097ff4000       4K rw---
/opt/cisco/XR/packages/ncs-fwding.rp_lc-5.0.1/lib/libsse_fwplib.so
00007fe097ff5000       4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi_netio.so
00007fe097ff6000     2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi_netio.so
00007fe0981f5000       4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi_netio.so
00007fe0981f6000       8K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpq_nodeid.so
00007fe0981f8000     2048K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpq_nodeid.so
00007fe0983f8000       4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpq_nodeid.so
00007fe0983f9000       4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libsock_media_platform.so
00007fe0983fa000     2048K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libsock_media_platform.so
00007fe0985fa000       4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libsock_media_platform.so
00007fe0985fb000      36K r-x--
```



```
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsmq.so
00007fe098604000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsmq.so
00007fe098804000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsmq.so
00007fe098805000    104K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libenf.so
00007fe09881f000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libenf.so
00007fe098a1e000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libenf.so
00007fe098a1f000         4K rw--- [ anon ]
00007fe098a20000        60K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmbp.so
00007fe098a2f000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmbp.so
00007fe098c2e000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmbp.so
00007fe098c2f000        32K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmalloc.so
00007fe098c37000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmalloc.so
00007fe098e36000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmalloc.so
00007fe098e37000         4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinst_devicemgr_platform.so
00007fe098e38000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinst_devicemgr_platform.so
00007fe099037000         4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinst_devicemgr_platform.so
00007fe099038000        28K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_devicemgr.so
00007fe09903f000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_devicemgr.so
00007fe09923f000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_devicemgr.so
00007fe099240000         4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_shmwin_pl_vm.so
00007fe099241000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_shmwin_pl_vm.so
00007fe099440000         4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_shmwin_pl_vm.so
00007fe099441000         8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpqmon.so
00007fe099443000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpqmon.so
00007fe099643000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpqmon.so
00007fe099644000         4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_pakman_pl_vm.so
00007fe099645000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_pakman_pl_vm.so
00007fe099844000         4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/lib_pakman_pl_vm.so
00007fe099845000    104K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_common.so
00007fe09985f000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_common.so
00007fe099a5f000         8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_common.so
00007fe099a61000    520K r-x-- /lib64/libm-2.12.so
00007fe099ae3000    2044K ----- /lib64/libm-2.12.so
00007fe099ce2000         8K rw--- /lib64/libm-2.12.so
00007fe099ce4000        12K r-x--&nbsp;
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_util.so
00007fe099ce7000    2044K -----
```

```
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_util.so
00007fe099ee6000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_util.so
00007fe099ee7000      8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_dbg.so
00007fe099ee9000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_dbg.so
00007fe09a0e8000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi_dbg.so
00007fe09a0e9000     28K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds.so
00007fe09a0f0000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds.so
00007fe09a2ef000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpcds.so
00007fe09a2f0000     16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_shmem.so
00007fe09a2f4000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_shmem.so
00007fe09a4f3000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_shmem.so
00007fe09a4f4000      4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_platform_infra_ltrace.so
00007fe09a4f5000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_platform_infra_ltrace.so
00007fe09a6f4000      4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/lib_platform_infra_ltrace.so
00007fe09a6f5000     12K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_parser.so
00007fe09a6f8000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_parser.so
00007fe09a8f8000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_parser.so
00007fe09a8f9000      4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_subdb.so
00007fe09a8fa000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_subdb.so
00007fe09aaf9000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_subdb.so
00007fe09aafa000     36K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_sysdb.so
00007fe09ab03000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_sysdb.so
00007fe09ad02000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbackend_sysdb.so
00007fe09ad03000      4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmemprofile.so
00007fe09ad04000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmemprofile.so
00007fe09af03000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libmemprofile.so
00007fe09af04000      4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_debug.so
00007fe09af05000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_debug.so
00007fe09b105000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_debug.so
00007fe09b106000     12K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libfim.so
00007fe09b109000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libfim.so
00007fe09b309000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libfim.so
00007fe09b30a000     56K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libhdr_invmgr_capi.so
00007fe09b318000    2044K -----
```

```
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcdr_invmgr_capi.so
00007fe09b517000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcdr_invmgr_capi.so
00007fe09b518000      4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libshelfmgrpi.so
00007fe09b519000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libshelfmgrpi.so
00007fe09b718000      4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libshelfmgrpi.so
00007fe09b719000      8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdscapi.so
00007fe09b71b000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdscapi.so
00007fe09b91a000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdscapi.so
00007fe09b91b000      4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_access.so
00007fe09b91c000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_access.so
00007fe09bb1b000      4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libmbi_access.so
00007fe09bb1c000     40K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbaggeneric.so
00007fe09bb26000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbaggeneric.so
00007fe09bd25000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbaggeneric.so
00007fe09bd26000     32K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libttnmspc.so
00007fe09bd2e000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libttnmspc.so
00007fe09bf2e000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libttnmspc.so
00007fe09bf2f000     24K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttytrace.so
00007fe09bf35000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttytrace.so
00007fe09c135000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttytrace.so
00007fe09c136000     24K rw---   [ anon ]
00007fe09c13c000     12K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtty_ptydb.so
00007fe09c13f000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtty_ptydb.so
00007fe09c33e000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libtty_ptydb.so
00007fe09c33f000    100K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage.so
00007fe09c358000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage.so
00007fe09c557000     12K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpackage.so
00007fe09c55a000    148K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libapi.so
00007fe09c57f000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libapi.so
00007fe09c77e000     12K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libapi.so
00007fe09c781000     44K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io.so
00007fe09c78c000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io.so
00007fe09c98c000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libinst_io.so
00007fe09c98d000     28K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsamclient.so
```

```
00007fe09c994000 2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsamclient.so
00007fe09cb94000 4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsamclient.so
00007fe09cb95000 4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinstbootinfo.so
00007fe09cb96000 2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinstbootinfo.so
00007fe09cd95000 4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libinstbootinfo.so
00007fe09cd96000 20K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpkg_platform.so
00007fe09cd9b000 2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpkg_platform.so
00007fe09cf9a000 4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libpkg_platform.so
00007fe09cf9b000 32K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_dll_support.so
00007fe09cfa3000 2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_dll_support.so
00007fe09d1a2000 4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_dll_support.so
00007fe09d1a3000 80K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_client.so
00007fe09d1b7000 2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_client.so
00007fe09d3b7000 4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libaib_client.so
00007fe09d3b8000 52K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_netio.so
00007fe09d3c5000 2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_netio.so
00007fe09d5c5000 4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket_netio.so
00007fe09d5c6000 12K r-x--
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libnpu_driver_board_hal.so
00007fe09d5c9000 2044K -----
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libnpu_driver_board_hal.so
00007fe09d7c8000 4K rw---
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libnpu_driver_board_hal.so
00007fe09d7c9000 60K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcmp.so
00007fe09d7d8000 2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcmp.so
00007fe09d9d8000 4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libcmp.so
00007fe09d9d9000 12K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_boot.so
00007fe09d9dc000 2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_boot.so
00007fe09dbdb000 4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_boot.so
00007fe09dbdc000 8K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_pd.so
00007fe09dbde000 2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_pd.so
00007fe09dddd000 4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_pd.so
00007fe09ddde000 4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libbackplane.so
00007fe09dddf000 2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libbackplane.so
00007fe09dfde000 4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libbackplane.so
00007fe09dfdf000 8K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libpanini_device_info.so
```

```
00007fe09dfe1000    2048K -----
/opt/cisco/XR/packages/ncs-os-support rp_lc-5.0.1/lib/libpanini_device_info.so
00007fe09e1e1000         4K rw---
/opt/cisco/XR/packages/ncs-os-support rp_lc-5.0.1/lib/libpanini_device_info.so
00007fe09e1e2000        12K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libital_shm.so
00007fe09e1e5000    2048K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libital_shm.so
00007fe09e3e5000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libital_shm.so
00007fe09e3e6000        92K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libens.so
00007fe09e3fd000    2044K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libens.so
00007fe09e5fc000         8K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libens.so
00007fe09e5fe000         4K rw--- [ anon ]
00007fe09e5ff000        40K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libnrs.so
00007fe09e609000    2044K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libnrs.so
00007fe09e808000         4K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libnrs.so
00007fe09e809000        12K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libcisco_ipv6_lib.so
00007fe09e80c000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libcisco_ipv6_lib.so
00007fe09ea0b000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libcisco_ipv6_lib.so
00007fe09ea0c000        12K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_transport.so
00007fe09ea0f000    2044K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_transport.so
00007fe09ec0e000         4K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_transport.so
00007fe09ec0f000         4K rw--- [ anon ]
00007fe09ec10000         8K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_addr.so
00007fe09ec12000    2048K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_addr.so
00007fe09ee12000         4K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libip_addr.so
00007fe09ee13000        24K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libpfi_ifh.so
00007fe09ee19000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libpfi_ifh.so
00007fe09f018000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libpfi_ifh.so
00007fe09f019000         8K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmifmapcons.so
00007fe09f01b000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmifmapcons.so
00007fe09f21a000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmifmapcons.so
00007fe09f21b000         4K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4_addr.so
00007fe09f21c000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4_addr.so
00007fe09f41b000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4_addr.so
00007fe09f41c000         8K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmaddr.so
00007fe09f41e000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmaddr.so
00007fe09f61d000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libiparmaddr.so
```

```
00007fe09f61e000      24K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmconsumer.so
00007fe09f624000      2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmconsumer.so
00007fe09f824000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmconsumer.so
00007fe09f825000         8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_tlvlib.so
00007fe09f827000      2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_tlvlib.so
00007fe09fa26000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_tlvlib.so
00007fe09fa27000         8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libport_un.so
00007fe09fa29000      2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libport_un.so
00007fe09fc28000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libport_un.so
00007fe09fc29000         8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_icmp_client_v2.so
00007fe09fc2b000      2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_icmp_client_v2.so
00007fe09fe2a000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libip_icmp_client_v2.so
00007fe09fe2b000         4K rw--- [ anon ]
00007fe09fe2c000        72K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libipv4_rib_lite.so
00007fe09fe3e000      2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libipv4_rib_lite.so
00007fe0a003d000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libipv4_rib_lite.so
00007fe0a003e000         4K rw--- [ anon ]
00007fe0a003f000        44K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_show.so
00007fe0a004a000      2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_show.so
00007fe0a0249000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace_show.so
00007fe0a024a000        16K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libpfi_util.so
00007fe0a024e000      2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libpfi_util.so
00007fe0a044d000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libpfi_util.so
00007fe0a044e000        68K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgsputils.so
00007fe0a045f000      2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgsputils.so
00007fe0a065e000         8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgsputils.so
00007fe0a0660000        12K rw--- [ anon ]
00007fe0a0663000       144K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgroup.so
00007fe0a0687000      2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgroup.so
00007fe0a0887000         8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libgroup.so
00007fe0a0889000         8K rw--- [ anon ]
00007fe0a088b000       92K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libimattrowner.so
00007fe0a08a2000      2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libimattrowner.so
00007fe0a0aa1000         8K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libimattrowner.so
00007fe0a0aa3000        12K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi.so
```

```
00007fe0a0aa6000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi.so
00007fe0a0ca5000         4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libplatform_pfi.so
00007fe0a0ca6000        20K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_client.so
00007fe0a0cab000       2048K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_client.so
00007fe0a0eab000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libnetio_client.so
00007fe0a0eac000         8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsysmrv.so
00007fe0a0eae000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsysmrv.so
00007fe0a10ad000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsysmrv.so
00007fe0a10ae000       196K r-x--
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libim_util.so
00007fe0a10df000       2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libim_util.so
00007fe0a12de000        12K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libim_util.so
00007fe0a12e1000        56K rw--- [ anon ]
00007fe0a12ef000        20K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcerr_dll_tbl.so
00007fe0a12f4000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcerr_dll_tbl.so
00007fe0a14f3000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcerr_dll_tbl.so
00007fe0a14f4000         4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcipc_endpoint_proto.so
00007fe0a14f5000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcipc_endpoint_proto.so
00007fe0a16f4000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcipc_endpoint_proto.so
00007fe0a16f5000        32K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_proto.so
00007fe0a16fd000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_proto.so
00007fe0a18fc000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_proto.so
00007fe0a18fd000        60K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_capi.so
00007fe0a190c000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_capi.so
00007fe0a1b0b000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_ds_capi.so
00007fe0a1b0c000        16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_cipc_proto.so
00007fe0a1b10000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_cipc_proto.so
00007fe0a1d0f000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_cipc_proto.so
00007fe0a1d10000         8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_impl.so
00007fe0a1d12000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_impl.so
00007fe0a1f11000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcapi_impl.so
00007fe0a1f12000       124K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_proto.so.0.0.1
00007fe0a1f31000       2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_proto.so.0.0.1
00007fe0a2130000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_proto.so.0.0.1
00007fe0a2131000       112K r-x--
```

```
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_capi.so.0.0.1
00007fe0a214d000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_capi.so.0.0.1
00007fe0a234d000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdr_nm_capi.so.0.0.1
00007fe0a234e000    44K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libctrace.so
00007fe0a2359000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libctrace.so
00007fe0a2559000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libctrace.so
00007fe0a255a000      8K r-x--
/usr/lib64/libevent_pthreads-2.0.so.5.0.1
00007fe0a255c000    2044K -----
/usr/lib64/libevent_pthreads-2.0.so.5.0.1
00007fe0a275b000      4K rw---
/usr/lib64/libevent_pthreads-2.0.so.5.0.1
00007fe0a275c000    256K r-x--
/usr/lib64/libevent-2.0.so.5.0.1
00007fe0a279c000    2048K -----
/usr/lib64/libevent-2.0.so.5.0.1
00007fe0a299c000      8K rw---
/usr/lib64/libevent-2.0.so.5.0.1
00007fe0a299e000    68K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
00007fe0a29af000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
00007fe0a2bae000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcalvados_infra.so
00007fe0a2baf000    316K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libaipc.so
00007fe0a2bfe000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libaipc.so
00007fe0a2dfe000      8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libaipc.so
00007fe0a2e00000    16K rw--- [ anon ]
00007fe0a2e04000    40K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libship.so
00007fe0a2e0e000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libship.so
00007fe0a300d000      8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libship.so
00007fe0a300f000      8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpkgfs_query.so
00007fe0a3011000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpkgfs_query.so
00007fe0a3210000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpkgfs_query.so
00007fe0a3211000      4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmediaerr.so
00007fe0a3212000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmediaerr.so
00007fe0a3411000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmediaerr.so
00007fe0a3412000    56K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdcl.so
00007fe0a3420000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdcl.so
00007fe0a3620000      4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libdcl.so
00007fe0a3621000    272K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdm.so
00007fe0a3665000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdm.so
00007fe0a3865000      8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcdm.so
```



```
00007fe0a3867000      32K rw---   [ anon ]
00007fe0a386f000      44K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libss_common.so
00007fe0a387a000     2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libss_common.so
00007fe0a3a7a000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libss_common.so
00007fe0a3a7b000      12K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcsemlock.so
00007fe0a3a7e000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcsemlock.so
00007fe0a3c7d000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcsemlock.so
00007fe0a3c7e000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdumper_snapshot.so
00007fe0a3c7f000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdumper_snapshot.so
00007fe0a3e7e000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdumper_snapshot.so
00007fe0a3e7f000       8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcompress.so
00007fe0a3e81000     2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcompress.so
00007fe0a4081000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libcompress.so
00007fe0a4082000      84K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbutils.so
00007fe0a4097000     2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbutils.so
00007fe0a4297000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbutils.so
00007fe0a4298000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_procfs_util.so
00007fe0a4299000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_procfs_util.so
00007fe0a4498000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_procfs_util.so
00007fe0a4499000      76K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdebug.so
00007fe0a44ac000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdebug.so
00007fe0a46ab000       8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libdebug.so
00007fe0a46ad000     100K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmwin.so
00007fe0a46c6000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmwin.so
00007fe0a48c5000       8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libshmwin.so
00007fe0a48c7000       8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_util.so
00007fe0a48c9000     2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_util.so
00007fe0a4ac8000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket_util.so
00007fe0a4ac9000     16K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libxipc.so
00007fe0a4acd000     2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libxipc.so
00007fe0a4ccc000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libxipc.so
00007fe0a4ccd000     76K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket.so
00007fe0a4ce0000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket.so
00007fe0a4edf000       4K rw---
```

```
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libpacket.so
00007fe0a4ee0000    408K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrt.so
00007fe0a4f46000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrt.so
00007fe0a5146000     4K r----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrt.so
00007fe0a5147000     8K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrt.so
00007fe0a5149000    220K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrtxml.so
00007fe0a5180000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrtxml.so
00007fe0a537f000     4K r----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrtxml.so
00007fe0a5380000     4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosysrtxml.so
00007fe0a5381000    36K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librpc.so
00007fe0a538a000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librpc.so
00007fe0a558a000     4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librpc.so
00007fe0a558b000    96K r-x-- /lib64/libpthread-2.12.so
00007fe0a55a3000   2044K ----- /lib64/libpthread-2.12.so
00007fe0a57a2000     4K r---- /lib64/libpthread-2.12.so
00007fe0a57a3000     4K rw--- /lib64/libpthread-2.12.so
00007fe0a57a4000    16K rw--- [ anon ]
00007fe0a57a8000  1444K r-x-- /lib64/libc-2.12.so
00007fe0a5911000   2048K ----- /lib64/libc-2.12.so
00007fe0a5b11000    12K r---- /lib64/libc-2.12.so
00007fe0a5b14000     8K rw--- /lib64/libc-2.12.so
00007fe0a5b16000    20K rw--- [ anon ]
00007fe0a5b1b000    52K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosag.so
00007fe0a5b28000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosag.so
00007fe0a5d27000     4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libosag.so
00007fe0a5d28000    20K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsyslog.so
00007fe0a5d2d000   2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsyslog.so
00007fe0a5f2c000     4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libsyslog.so
00007fe0a5f2d000    84K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi.so
00007fe0a5f42000   2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi.so
00007fe0a6141000     4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librsi.so
00007fe0a6142000    48K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf.so
00007fe0a614e000   2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf.so
00007fe0a634e000     4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/librmf.so
00007fe0a634f000    64K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace.so
00007fe0a635f000   2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace.so
00007fe0a655f000     4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libltrace.so
00007fe0a6560000     8K r-x-- /lib64/libdl-2.12.so
00007fe0a6562000   2048K ----- /lib64/libdl-2.12.so
00007fe0a6762000     8K rw--- /lib64/libdl-2.12.so
```

```
00007fe0a6764000      32K r-x-- /lib64/librt-2.12.so
00007fe0a676c000    2044K ----- /lib64/librt-2.12.so
00007fe0a696b000       8K rw--- /lib64/librt-2.12.so
00007fe0a696d000     24K r-x--
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libsyslog_rw.so
00007fe0a6973000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libsyslog_rw.so
00007fe0a6b72000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp-5.0.1/lib/libsyslog_rw.so
00007fe0a6b73000     12K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsltd.so
00007fe0a6b76000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsltd.so
00007fe0a6d75000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsltd.so
00007fe0a6d76000       4K rw--- [ anon ]
00007fe0a6d77000     20K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbbackend.so
00007fe0a6d7c000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbbackend.so
00007fe0a6f7b000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysdbbackend.so
00007fe0a6f7c000     40K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbag.so
00007fe0a6f86000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbag.so
00007fe0a7186000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbag.so
00007fe0a7187000       8K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_alarm_logger_locnotify.so
00007fe0a7189000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_alarm_logger_locnotify.so
00007fe0a7388000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/lib_alarm_logger_locnotify.so
00007fe0a7389000     12K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_infra.so
00007fe0a738c000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_infra.so
00007fe0a758b000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libalm_loc_infra.so
00007fe0a758c000     44K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblrdlib.so
00007fe0a7597000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblrdlib.so
00007fe0a7796000       4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/liblrdlib.so
00007fe0a7797000     16K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttyutil.so
00007fe0a779b000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttyutil.so
00007fe0a799a000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libttyutil.so
00007fe0a799b000    128K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysmgr.so
00007fe0a79bb000    2044K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysmgr.so
00007fe0a7bba000       8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsysmgr.so
00007fe0a7bbc000     40K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libovl.so
00007fe0a7bc6000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libovl.so
00007fe0a7dc6000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libovl.so
00007fe0a7dc7000     72K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid.so
```

```
00007fe0a7dd9000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid.so
00007fe0a7fd8000      16K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libnodeid.so
00007fe0a7fdc000       8K r-x--
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libplatform_netio.so
00007fe0a7fde000    2048K -----
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libplatform_netio.so
00007fe0a81de000       4K rw---
/opt/cisco/XR/packages/iosxr-sse.rp_lc-5.0.1/lib/libplatform_netio.so
00007fe0a81df000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_to_be_deprecated.so
00007fe0a81e0000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_to_be_deprecated.so
00007fe0a83df000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_to_be_deprecated.so
00007fe0a83e0000       4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libc12000_cardtype.so
00007fe0a83e1000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libc12000_cardtype.so
00007fe0a85e0000       4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libc12000_cardtype.so
00007fe0a85e1000       4K r-x--
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libc12000_chassis.so
00007fe0a85e2000    2044K -----
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libc12000_chassis.so
00007fe0a87e1000       4K rw---
/opt/cisco/XR/packages/ncs-base.rp_lc-5.0.1/lib/libc12000_chassis.so
00007fe0a87e2000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libc12000_bflc_io_reset.so
00007fe0a87e3000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libc12000_bflc_io_reset.so
00007fe0a89e2000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libc12000_bflc_io_reset.so
00007fe0a89e3000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_lc_mem.so
00007fe0a89e4000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_lc_mem.so
00007fe0a8be3000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_lc_mem.so
00007fe0a8be4000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_rp_rate_limit.so
00007fe0a8be5000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_rp_rate_limit.so
00007fe0a8de4000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_rp_rate_limit.so
00007fe0a8de5000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_mbus_fru.so
00007fe0a8de6000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_mbus_fru.so
00007fe0a8fe5000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_mbus_fru.so
00007fe0a8fe6000       4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_diagstrings.so
00007fe0a8fe7000    2044K -----
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_diagstrings.so
00007fe0a91e6000       4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_diagstrings.so
00007fe0a91e7000       4K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_plimq.so
00007fe0a91e8000    2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_plimq.so
00007fe0a93e7000       4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libplatform_plimq.so
00007fe0a93e8000      44K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform.so
```

```
00007fe0a93f3000    2044K -----
/opt/cisco/XR/packages/ncs-os-support rp_lc-5.0.1/lib/libplatform.so
00007fe0a95f2000         4K rw---
/opt/cisco/XR/packages/ncs-os-support rp_lc-5.0.1/lib/libplatform.so
00007fe0a95f3000         8K rw--- [ anon ]
00007fe0a95f5000       168K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipaddr_cons.so
00007fe0a961f000       2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipaddr_cons.so
00007fe0a981e000        24K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipaddr_cons.so
00007fe0a9824000         4K rw--- [ anon ]
00007fe0a9825000        44K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4.so
00007fe0a9830000       2048K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4.so
00007fe0a9a30000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libipv4.so
00007fe0a9a31000         4K rw--- [ anon ]
00007fe0a9a32000       148K r-x--
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcalvados_ios.so.0.0.1
00007fe0a9a57000       2044K -----
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcalvados_ios.so.0.0.1
00007fe0a9c56000         8K rw---
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcalvados_ios.so.0.0.1
00007fe0a9c58000       176K r-x--
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libios.so
00007fe0a9c84000       2048K -----
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libios.so
00007fe0a9e84000         8K rw---
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libios.so
00007fe0a9e86000         4K rw--- [ anon ]
00007fe0a9e87000       444K r-x--
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libifmgr.so
00007fe0a9ef6000       2044K -----
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libifmgr.so
00007fe0aa0f5000        20K rw---
/opt/cisco/XR/packages/iosxr-fwding rp_lc-5.0.1/lib/libifmgr.so
00007fe0aa0fa000        16K r-x--
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcerrno.so
00007fe0aa0fe000       2048K -----
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcerrno.so
00007fe0aa2fe000         4K rw---
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libcerrno.so
00007fe0aa2ff000       592K r-x--
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libinfra.so
00007fe0aa393000       2044K -----
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libinfra.so
00007fe0aa592000        16K rw---
/opt/cisco/XR/packages/iosxr-os rp_lc-5.0.1/lib/libinfra.so
00007fe0aa596000        52K rw--- [ anon ]
00007fe0aa5a3000        16K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdbhelper.so
00007fe0aa5a7000       2044K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdbhelper.so
00007fe0aa7a6000         4K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdbhelper.so
00007fe0aa7a7000       364K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdb.so
00007fe0aa802000       2044K -----
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdb.so
00007fe0aaa01000         8K rw---
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsysdb.so
00007fe0aaa03000         4K rw--- [ anon ]
00007fe0aaa04000       160K r-x--
/opt/cisco/XR/packages/iosxr-infra rp_lc-5.0.1/lib/libsocket.so
```

```

00007fe0aaa2c000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket.so
00007fe0aac2c000         8K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libsocket.so
00007fe0aac2e000         4K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_general.so
00007fe0aac2f000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_general.so
00007fe0aae2f000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_general.so
00007fe0aae30000         8K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_addr_presentation.so
00007fe0aae32000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_addr_presentation.so
00007fe0ab032000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_addr_presentation.so
00007fe0ab033000        44K r-x--
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_name_mapping.so
00007fe0ab03e000    2048K -----
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_name_mapping.so
00007fe0ab23e000         4K rw---
/opt/cisco/XR/packages/iosxr-infra.rp_lc-5.0.1/lib/libbsd_name_mapping.so
00007fe0ab23f000        24K rw--- [ anon ]
00007fe0ab245000        20K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmalloc_stat.so.0.0.1
00007fe0ab24a000    2048K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmalloc_stat.so.0.0.1
00007fe0ab44a000         4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libmalloc_stat.so.0.0.1
00007fe0ab44b000        32K rw--- [ anon ]
00007fe0ab453000       128K r-x-- /lib64/ld-2.12.so
00007fe0ab473000         4K rw-s- /dev/shm/tmp/syslogd_syslogd
00007fe0ab474000        12K rw-s- /dev/shmem/ltrace/install/inv_error
00007fe0ab477000        12K rw-s- /dev/shmem/ltrace/install/inv
00007fe0ab47a000        16K rw-s- /dev/shmem/ltrace/install/inst_io
00007fe0ab47e000        12K rw-s- /dev/shmem/ltrace/install/pkg
00007fe0ab481000        12K rw-s- /dev/shmem/ltrace/install/ifc
00007fe0ab484000        36K rw-s- /dev/shmem/ltrace/install/instdir_loadpath_error
00007fe0ab48d000        12K rw-s- /dev/shmem/ltrace/install/instdir_loadpath
00007fe0ab490000        12K rw-s- /dev/shmem/ltrace/aqsmllib/190/errors
00007fe0ab493000        12K rw-s- /dev/shmem/ltrace/aqsmllib/190/debug
00007fe0ab496000        12K rw-s- /dev/shmem/ltrace/aqsmllib/190/api
00007fe0ab499000         4K rw-s- /dev/shm/dev/shmem/tty_db_pty_map
00007fe0ab49a000         4K rw-s- /dev/shm/dev/shmem/ship_data_0
00007fe0ab49b000        32K rw-s- /dev/shmem/ltrace/cdm/190/heap_b1_o846
00007fe0ab4a3000         4K r--s- /dev/shm/dev/shmem/sysmgr_shmem
00007fe0ab4a4000        12K rw-s- /dev/shmem/ltrace/cdm/190/repl
00007fe0ab4a7000        12K rw-s- /dev/shmem/ltrace/cdm/190/heap
00007fe0ab4aa000        12K rw-s- /dev/shmem/ltrace/cdm/190/errors
00007fe0ab4ad000        12K rw-s- /dev/shmem/ltrace/cdm/190/api
00007fe0ab4b0000         4K ----- [ anon ]
00007fe0ab4b1000       512K rw--- [ anon ]
00007fe0ab531000         4K ----- [ anon ]
00007fe0ab532000       512K rw--- [ anon ]
00007fe0ab5b2000        12K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/err
00007fe0ab5b5000        12K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/dbg
00007fe0ab5b8000        12K rw-s- /dev/shmem/ltrace/lwmlib/1_syslogd/api
00007fe0ab5bb000        52K rw-s- /dev/shmem/ltrace/install/inst_devicemgr_error
00007fe0ab5c8000        16K rw-s- /dev/shmem/ltrace/install/inst_devicemgr
00007fe0ab5cc000        12K rw-s- /dev/shmem/ltrace/install/pkg
00007fe0ab5cf000        52K rw-s- /dev/shmem/ltrace/install/inst_io_error
00007fe0ab5dc000        16K rw-s- /dev/shmem/ltrace/install/inst_io
00007fe0ab5e0000        96K rw-s- /dev/shmem/ltrace/install/pkgfs_error
00007fe0ab5f8000        16K rw-s- /dev/shmem/ltrace/install/pkgfs
00007fe0ab5fc000        36K rw-s- /dev/shmem/ltrace/install/inst_mem_error
00007fe0ab605000        12K rw-s- /dev/shmem/ltrace/install/inst_mem

```

```

00007fe0ab608000      4K rw-s-  /dev/shm/shm_mutex_monitors
00007fe0ab609000      4K rw-s-  /dev/shm/cdm_db_dir
00007fe0ab60a000      4K rw-s-  /dev/shmem/ltrace/ltrace_global_ctrl
00007fe0ab60b000     412K rw---  [ anon ]
00007fe0ab672000      4K r----  /lib64/ld-2.12.so
00007fe0ab673000      4K rw---  /lib64/ld-2.12.so
00007fe0ab674000      4K rw---  [ anon ]
00007fff6409b000     132K rw---  [ stack ]
00007fff640db000      4K r-x--  [ anon ]
ffffffffffff600000      4K r-x--  [ anon ]
total                2700196K

```

```
node:      node0_RP1_CPU0
```

```
-----
No context
```

```
RP/0/RP0/CPU0:NCS6008-SJ#
```

```
RP/0/RP0/CPU0:NCS6008-SJ#dir harddisk:
```

```
Wed Feb 19 12:31:10.577 UTC
```

```
Directory of /harddisk:/
```

```

15 -rwx----- 1      42499 Feb  7  2011 running_backup
24 -rwxr--r-- 1    5181440 Feb  7 15:33 ncs6k-mpls.pkg-5.0.1
28 -rw-r--r-- 1    8231199 Feb 19 12:25
syslogd_2117.by.11.20140219-122529.xr-vm_node0_RP0_CPU0.ddc58.core.gz
21 -rwxr--r-- 1    7874560 Feb  7 14:57 ncs6k-mcast.pkg-5.0.1
16 -rwxr--r-- 1   19387904 Feb  7  2011 NCS6000-iosxr-k9-5.0.0.tar
784897 drwxr-xr-x 2      4096 Jan  5  1970 shutdown
13 -rw-r--r-- 1   10193834 Feb  1  2011
devc-conaux-con_2114.by.11.20110201-123522.xr-vm_node0_RP0_CPU0.8a616.core.gz
22 -rwxr--r-- 1    1515520 Feb  7 14:57 ncs6k-mgbl.pkg-5.0.1
12 -rw-r--r-- 1   49755237 Feb  1  2011
fia_driver_2157.by.6.20110201-062609.xr-vm_node0_0_CPU0.4b965.core.gz
27 -rwx----- 1      3947 Feb 12 13:14 running_config_upgrade_test.txt
2223873 drwxr-xr-x 2      4096 Jan  5  1970 nvram
26 -rwxr--r-- 1   621035520 Feb 10 21:15 ncs6k-usb-boot-5.0.1.zip
25 -rwxr--r-- 1    327680 Feb 10 18:55
ncs6k-sysadmin-5.0.0.CSCul30161-0.0.11.d.smu
18 -rwx----- 1      2079 Feb 17  2011 running-config
19 -rwxr--r-- 1   1720320 Feb  7 14:55 ncs6k-doc.pkg-5.0.1
14 -rwxr--r-- 1   643317760 Feb  4  2011 ncs6k-mini-x.iso
20 -rwxr--r-- 1   3471360 Feb  7 14:56 ncs6k-k9sec.pkg-5.0.1
17 -rwxr--r-- 1   1341440 Feb  7  2011
panini-admin-5.0.90.CSCui84753-0.0.10.d.smu
23 -rwxr--r-- 1   815474688 Feb  7 15:31 ncs6k-mini-x.iso-5.0.1
11 drwx----- 2    16384 Jan  5  1970 lost+found

```

```
RP/0/RP0/CPU0:NCS6008-SJ#dir disk0:/core
```

```
Wed Feb 19 12:32:15.252 UTC
```

```
Directory of /disk0:/core
```

```

16 -rw-r--r-- 1   87359 Feb 19 12:25
syslogd_2117.by.11.20140219-122529.xr-vm_node0_RP0_CPU0.ddc58.core.txt
19 drwxr-xr-x 2    4096 Feb 19 12:25 .1

```

show dll

Refer to the show dll section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are options changes and output changes.

Details: Only the *pid* keyword is supported. The location keyword is removed.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#show dll ?
pid  Pid of the process
```

```
RP/0/RP0/CPU0:NCS6008-A#show dll pid ?
<0-4294967295> <pid> of the process
```

```
RP/0/RP1/CPU0:CRS-H#show dll ?
address  Display the dllname for a particular address.
dllname  Display the pid_info for a particular dllname (virt-path).
jobid    job id
location location to display
memory   Display only a summary of memory usage.
symbol   Static function symbols will NOT work
virtual  Displays virtual path.
|        Output Modifiers
<cr>
```

show controller fabric

Refer to the show controller fabric section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: The *show* command keywords are changed.

Details: Support for the *bundle*, *connectivity*, and *summary* keywords is removed. Support for the *fsdb-aggregator* and *fsdb-server* keywords is added. Most of the output is very similar.

All show commands except for the *trace* keyword are in the SysAdmin VM.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#show controller fabric ?
trace  trace information
```

```
sysadmin-vm:0_RP0# show controller fabric ?
Possible completions:
fgid          FGID management information
fsdb-aggregator FSDB Aggregator information
fsdb-pla      Plane availability status option
fsdb-server   FSDB Server information
health        Fabric Health
link          Fabric link option
plane         plane info
sfe           Switch Fabric Element option
standby       Plane info in standby
|             Output modifiers <cr>
```

```
RP/0/RP1/CPU0:CRS-H#show controller fabric ?
barriers      Barriers(cisco-support)
block         Block Information(cisco-support)
debug         show debug utilities(cisco-support)
eio           Show eio commands for the Fabricq ASIC(cisco-support)
fabric-backpressure Fabric Backpressure details
health        Health(cisco-support)
imdr          IMDR (ISSU) upgrade info
link-info     Link Information(cisco-support)
queues        Queues Information(cisco-support)
```



```
statistics      Packet Statistics
summary        Summary(cisco-support)
```

```
RP/0/RP1/CPU0:CRS-H#admin
```

```
Mon Mar 31 17:36:58.363 EDT
```

```
RP/0/RP1/CPU0:CRS-H(admin)#show controller fabric ?
```

```
bundle          Fabric bundle option
connectivity    Connectivity to fabric option
deferral-info   deferral information
fgid            FGID management information
fsdb-pla        plane availability status option
link            Fabric link option
plane           Fabric plane option
pod             Fabric pod option
rack            Rack status option
sfe             Switch Fabric Element option
trace           Fabric trace option(cisco-support)
tuning          Dynamic link tuning option
warm-reload     Show fabric warm-reload data(cisco-support)
```

show environment

Refer to the show environment section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are output changes and command keyword changes.

Details: Support for the *leds* and *table* keywords are removed. Support for the *current* keyword is added. The output is cosmetically different. The output includes per slice information.

Significance: Minor

```
sysadmin-vm:0_RP0# show environment ?
```

```
Description: environment data
```

```
Possible completions:
```

```
all              All environment monitor parameters
current          Current information
fan              Chassis Fans information
power            Power supply voltage and current information
temperatures     Temperature information
trace            Debug trace information
voltages         Voltage information
|               Output modifiers
<cr>
```

```
RP/0/RP1/CPU0:CRS-H(admin)#show env ?
```

```
all              All environmental monitor parameters
fans             Fans information
last             Last readings of environmental parameters
leds             LEDS on cards
location         Location of a node
power-supply     Power supply voltage and current information
table            Environmental parameter ranges
temperatures     Temperature information
trace            Show trace data for environment monitoring
voltages         Voltage information
|               Output Modifiers
<cr>
```

show filesystem

Refer to the show filesystem section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are options changes along with CLI output.

Details: The *show filesystem disk0:* command does not work any longer. The command is not available from the SysAdmin VM. The command displays the same information from the admin mode and exec on a CRS but not on the NCS 6008.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#show filesystem
```

```
Tue Feb 10 22:09:42.941 UTC
```

```
File Systems:
```

Size(b)	Free(b)	Type	Flags	Prefixes
0	0	network	rw	tftp:
39380996096	39196561408	harddisk	rw	harddisk:
1031311360	1012842496	flash-disk	rw	disk0:

```
RP/0/RP0/CPU0:NCS6008-A#show filesystem loc all
```

```
Tue Feb 10 22:10:20.285 UTC
```

```
node: node0_4_CPU0
```

```
-----  
File Systems:
```

Size(b)	Free(b)	Type	Flags	Prefixes
1031311360	981569536	flash-disk	rw	disk0:

```
node: node0_RP0_CPU0
```

```
-----  
File Systems:
```

Size(b)	Free(b)	Type	Flags	Prefixes
0	0	network	rw	tftp:
39380996096	39196561408	harddisk	rw	harddisk:
1031311360	1012838400	flash-disk	rw	disk0:

```
RP/0/RP0/CPU0:NCS6008-A#show filesystem ?
```

```
location specify the location
```

```
sysadmin-vm:0_RP0# show filesystem
```

```
-----  
^  
syntax error: element does not exist
```

```
RP/0/RP0/CPU0:CRS-J#show filesystem
```

```
Mon Nov 25 16:11:36.810 UTC
```

```
File Systems:
```

Size(b)	Free(b)	Type	Flags	Prefixes
-	-	network	rw	qsm/dev/fs/tftp:
-	-	network	rw	qsm/dev/fs/rcp:
-	-	network	rw	qsm/dev/fs/ftp:
11492376576	10348458496	dumper-lnk	rw	qsm/dumper_disk0:
1312817152	1056006144	dumper-lnk	rw	qsm/dumper_disk0a:
16568549376	15307819008	dumper-lnk	rw	qsm/dumper_harddisk:
3051651072	3049283584	dumper-lnk	rw	qsm/dumper_nvmem:
1017208832	1016152064	dumper-lnk	rw	qsm/dumper_nvmem2:
16392388608	16388352512	dumper-lnk	rw	qsm/dumper_harddiska:

```

1125122048 1124809216 dumper-lnk rw qsm/dumper_diskla:
11492376576 9500605440 dumper-lnk rw qsm/dumper_diskl:
11492376576 10348458496 flash-disk rw disk0:
11492376576 9500605440 flash-disk rw disk1:
16568549376 15307819008 harddisk rw harddisk:
16392388608 16388352512 harddisk rw harddiska:
1312817152 1056006144 flash-disk rw disk0a:
1125122048 1124809216 flash-disk rw diskla:
1043456 998400 nvram rw nvram:
3051651072 3049283584 rw nvmem:
1017208832 1016152064 rw nvmem2:

```

RP/0/RP0/CPU0:CRS-J(admin)#**show filesystem**

Mon Nov 25 16:14:24.159 UTC

File Systems:

Size(b)	Free(b)	Type	Flags	Prefixes
-	-	network	rw	qsm/dev/fs/tftp:
-	-	network	rw	qsm/dev/fs/rcp:
-	-	network	rw	qsm/dev/fs/ftp:
11492376576	10348458496	dumper-lnk	rw	qsm/dumper_disk0:
1312817152	1056006144	dumper-lnk	rw	qsm/dumper_disk0a:
16568549376	15307819008	dumper-lnk	rw	qsm/dumper_harddisk:
3051651072	3049283584	dumper-lnk	rw	qsm/dumper_nvmem:
1017208832	1016152064	dumper-lnk	rw	qsm/dumper_nvmem2:
16392388608	16388352512	dumper-lnk	rw	qsm/dumper_harddiska:
1125122048	1124809216	dumper-lnk	rw	qsm/dumper_diskla:
11492376576	9500605440	dumper-lnk	rw	qsm/dumper_diskl:
11492376576	10348458496	flash-disk	rw	disk0:
11492376576	9500605440	flash-disk	rw	disk1:
16568549376	15307819008	harddisk	rw	harddisk:
16392388608	16388352512	harddisk	rw	harddiska:
1312817152	1056006144	flash-disk	rw	disk0a:
1125122048	1124809216	flash-disk	rw	diskla:
1043456	998400	nvram	rw	nvram:
3051651072	3049283584		rw	nvmem:
1017208832	1016152064		rw	nvmem2:

RP/0/RP0/CPU0:CRS-J(admin)#**show filesystem ?**

```

bootflash: Show bootflash FFS3 file system information
configflash: Show configflash file system information
disk0: Show device information
disk1: Show device information
disk2: Show device information
harddisk: Show device information
lcdisk0: Show device information
lcdisk0a: Show device information
location specify the location

```

RP/0/RP0/CPU0:CRS-J(admin)#**show filesystem disk0:**

Mon Nov 25 16:15:10.110 UTC

```

Model: SMART iSATA
Serial Number: SMART iSATA 111110E984
Firmware: 20101203
BIOS Geometry: 16 Heads, 63 Sectors
Drive Geometry: 16 Heads, 16383 Tracks, 63 Sectors
Drive Capacity: 16514064 Cur Sctrs, 16514064 User Sctrs, Extd
Address Mode: LBA
PIO mode: 0
Multimode Blocks/Transfer: 32769

```

Capacity: 59071696 Sectors, Total 30244708352 Bytes, (512 Bytes/sector)

show install

Refer to the show install section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are keyword option changes along with the output changes.

Details: The support for the *prepare* and *repository* keywords is added. The support for the *summary* keyword is removed.

Significance: Major

```
RP/0/RP0/CPU0:NCS6008-A#show install ?
```

```
active      Show active package(s) installed
inactive    Show inactive package(s) information
log         Show log file
package     Show information for package(s) in repository
prepare     Show prepared package(s) ready for activation
repository  Show SDR software repository
request     Show current request
which       Show information about an installed file
```

```
RP/0/RP1/CPU0:CRS-H#show install ?
```

```
active      Show the active package information
audit       Audit installed packages
auto-abort-timer Show auto-abort-timer value
boot-options Show boot options
committed   Show the committed package information
compression Show Install File Compression information(cisco-support)
events      Show key events from the install history
inactive    Show inactive package information
log         Show log file
package     Name of the package
pie-info    Show information in a PIE file
request     Show current request
rollback    Show package information for a rollback point
summary     Show summary information
superceded  Show superceded packages
which       Show the origin of a named process, component or package
```

show inventory

Refer to the show inventory section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are output changes along with keyword changes.

Details: Support for the *trace* keyword is removed. Most other displays and functionality are the same.

The *show inventory* command can be run from the XR VM or the SysAdmin VM and shows similar outputs in both VMs. The *show inventory* output in the XR VM displays the PIDs and serial numbers for optics installed in linecards, while this information is not included when run from the SysAdmin VM.

Significance: Major

```
RP/0/RP0/CPU0:NCS6008-A#show inventory ?
```

```
WORD       Partially qualified location specification
all        Inventory information for all the physical entities
location   Location of node for inventory
```

```
oid      oid information
raw      raw information
|        Output Modifiers
<cr>
```

```
sysadmin-vm:0_RP0# show inventory ?
```

```
Possible completions:
```

```
all      Get all FRU info
chassis  Get chassis info
fan      Get Fan info
location Select node location
power    Get Power info
raw      Get all entity info
|        Output modifiers
<cr>
```

show media

Refer to the show media section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are CLI Output changes.

Details: Disk0: is not used as the boot disk on the NCS 6000. The **rootfs:** partition is the boot partition for both the XR and SysAdmin VMs. The boot partition is 3.9G for the XR VM and 2.9G for the SysAdmin VM. The **rootfs:** partition for each VM is carved from a 32GB Solid-State Drive (SSD) drive on the Route Processor. The **harddisk:** partition for each VM is carved from a 200GB SSD drive on the Route Processor.

Significance: Major

```
RP/0/RP0/CPU0:NCS6008-A#show media
Mon Mar 31 14:25:38.992 UTC
```

```
Media Information for local node.
```

```
-----
Partition              Size      Used    Percent    Avail
rootfs:                 3.9G     746M     20%        3.0G
log:                    485M     25M      6%         436M
config:                 485M     17M      4%         443M
disk0:                  984M     18M      2%         916M
harddisk:                37G     1.7G     5%         34G
-----
```

```
rootfs: = root file system (read-only)
log:    = system log files (read-only)
config: = configuration storage (read-only)
```

```
RP/0/RP0/CPU0:NCS6008-A#show media loc 0/3/cpu0
Mon Mar 31 14:51:44.648 UTC
```

```
Media Information for node0_3_CPU0.
```

```
-----
Partition              Size      Used    Percent    Avail
rootfs:                 3.9G     745M     20%        3.0G
log:                    485M     21M      5%         439M
config:                 485M     17M      4%         444M
disk0:                  984M     52M      6%         883M
-----
```

```
rootfs: = root file system (read-only)
log:    = system log files (read-only)
```

config: = configuration storage (read-only)

RP/0/RP0/CPU0:NCS6008-A#**admin**
Mon Mar 31 14:26:24.575 UTC

lab connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0
sysadmin-vm:0_RP0# sh media
Mon Mar 31 14:26:31.960 UTC

```
-----  
Partition                Size      Used  Percent  Avail  
-----  
rootfs:                  2.9G     485M    18%     2.3G  
log:                     494M      63M    14%     406M  
config:                  494M      24M     6%     445M  
disk0:                   965M      18M     2%     899M  
harddisk:                37G      956M    3%      34G  
-----
```

rootfs: = root file system (read-only)
log: = system log files (read-only)
config: = configuration storage (read-only)

RP/0/RP0/CPU0:CRS-K#**show media**
Sun Mar 30 21:31:30.784 UTC

Media Information for 0/RP0/CPU0.

Mountpoint	Image FsType	Current FsType	Part Size	State	DrvrPid	Mirror	Flags
/disk0:	QNX4	QNX4	10.0G	Mounted	0036891	Enabled	
/disk0a:	QNX4	QNX4	1.1G	Mounted	0036891		
/harddiska:	QNX4	QNX4	14.2G	Mounted	0036891		
/disk1:	QNX4	QNX4	10.0G	Mounted	0036891		
/disk1a:	QNX4	QNX4	1.0G	Mounted	0036891		
/harddisk:	QNX4	QNX4	14.4G	Mounted	0036891		
/nvme:	FAT32	FAT32	2.8G	Mounted	0032789		
/nvme2:	FAT32	FAT32	0.9G	Mounted	0032789		
/disk2:	FAT32	(?)		Not Present			
/lcdisk0:	FAT32	(?)		Not Present			
/lcdisk0a:	FAT32	(?)					

Output Truncated to size 1023

show memory

Refer to the show memory section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are options changes along with CLI output.

Details: The memory architecture is significantly changed with NCS 6008. As a result, there are many changes to the CLI output of the *show memory* command. The CLI command option changes are minor.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-A#show memory ?  
<0-4294967295> pid  
compare      Create and compare memory snapshots  
heap         Show process heap.  
location     location to display  
summary      Display only a summary of memory usage.
```

RP/0/RP0/CPU0:NCS6008-A#**show memory summ**
Sat Jan 31 23:42:43.354 UTC

```
Physical Memory: 11838M total (8707M available)
Application Memory : 11838M (8707M available)
Image: 4M (bootram: 0M)
Reserved: 0M, IOMem: 0M,          flashfsys: 0M
```

```
sysadmin-vm:0_RP0# show memory summ
```

```
Sat Jan 31 23:44:12.805 UTC
Sat Jan 31 23:44:12 UTC 1970
```

```
Physical Memory: 1905 MB total (781 MB available)
```

```
RP/0/RP0/CPU0:CRS-J#show memory ?
```

```
<0-4294967295>  job id
compare        Create and compare memory snapshots
heap           Show process heap.
location       location to display
summary        Display only a summary of memory usage.
```

```
RP/0/RP0/CPU0:CRS-J#show mem summ
```

```
Fri Nov 15 17:42:47.525 UTC
Physical Memory: 12288M total (10223M available)
Application Memory : 11896M (10223M available)
Image: 71M (bootram: 71M)
Reserved: 256M, IOMem: 64K, flashfsys: 0
Total shared window: 28M
```

```
RP/0/RP0/CPU0:CRS-J(admin)#show mem summ
```

```
Fri Nov 15 17:44:04.400 UTC
Physical Memory: 12288M total (10221M available)
Application Memory : 11896M (10221M available)
Image: 71M (bootram: 71M)
Reserved: 256M, IOMem: 64K, flashfsys: 0
Total shared window: 28M
```

show processes

Refer to the show processes section of the *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x* for more information.

Summary: There are minor changes in the options supported and also in the output for some of the options.

Details: The *show pidin* keyword is no longer supported.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-SJ#show processes ?
```

```
<0-4294967295>  job id
WORD           Name of the executable
aborts         Show process aborts
all            Show process data for all processes
blocked        Show file and channel use per process
boot           Show process boot info
boot-stalled   Show process boot-up blocked
cpu            Show CPU use per process new
distribution    Show distribution of processes
dynamic        Show process data for dynamically created processes
failover       Show process failover info
family         Show process family information.
files          Show file and channel use per process
location       location to display
log            Show process log
mandatory      Show process data for mandatory processes
memory         Show process memory information.
```

```

searchpath      Show the search path
signal          Show signal use for processes.
startup         Show process data for processes created at startup
threadname     Show thread names.
|              Output Modifiers
<cr>

```

```

RP/0/RP0/CPU0:CRS-J#show process ?
<0-4294967295>  job id
WORD           Name of the executable
aborts         Show process aborts
all            Show process data for all processes
blocked        Show detail for reply/send/mutex blocked processes.
boot           Show process boot info
boot-stalled   Show process boot-up blocked
cpu            Show CPU use per process
distribution    Show distribution of processes
dynamic        Show process data for dynamically created processes
failover       Show process failover info
family         Show process family information.
files          Show file and channel use per process
location       location to display
log            Show process log
mandatory      Show process data for mandatory processes
memory         Show memory use per process
pidin         Show processes using QNX pidin command
searchpath     Show the search path
signal         Show signal use for processes.
startup        Show process data for processes created at startup
threadname     Show thread names.

```

show platform

Refer to the show platform section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are additional keyword options and output changes.

Details: The *show platform* command can be run from the XR or SysAdmin VM.

XR VM: Support for the *vm* keyword was added.

On the NCS 6000, the command displays fabric, fan, and power module information from the XR VM, while it does not in classic XR. In order to get information about those types of components in Classic XR, the command must be run from admin mode.

SysAdmin VM: The *detail* keyword was added in order to provide additional information about the state and boot information for a node in the system. Support for the *slices* keyword is added.

Significance: Major

```

RP/0/RP0/CPU0:NCS6008-A#show platform
Mon Mar 31 21:28:58.255 UTC
Node name          Node type          Node state          Admin state          Config state
-----
0/3                NC6-10X100G-M-P   OPERATIONAL         UP                   NSHUT
0/3/NPU0           Slice              UP                   UP
0/3/NPU1           Slice              UP                   UP
0/3/NPU2           Slice              UP                   UP
0/3/NPU3           Slice              UP                   UP
0/3/NPU4           Slice              UP                   UP

```


0/4	NC6-10X100G-L-K	OPERATIONAL	UP	NSHUT
0/4/NPU0	Slice	UP	UP	
0/4/NPU1	Slice	UP	UP	
0/4/NPU2	Slice	UP	UP	
0/4/NPU3	Slice	UP	UP	
0/4/NPU4	Slice	UP	UP	
0/RP0	NC6-RP	OPERATIONAL	UP	NSHUT
0/RP1	NC6-RP	OPERATIONAL	UP	NSHUT
0/FC0	NC6-FC	OPERATIONAL	UP	NSHUT
0/FC1	NC6-FC	OPERATIONAL	UP	NSHUT
0/FC2	NC6-FC	OPERATIONAL	UP	NSHUT
0/FC3	NC6-FC	OPERATIONAL	UP	NSHUT
0/FC4	NC6-FC	OPERATIONAL	UP	NSHUT
0/FC5	NC6-FC	OPERATIONAL	UP	NSHUT
0/FT0	NC6-FANTRAY	OPERATIONAL	UP	NSHUT
0/FT1	NC6-FANTRAY	OPERATIONAL	UP	NSHUT
0/PT0	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT
0/PT1	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT
0/PT2	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT
0/PT3	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT
0/PT4	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT
0/PT5	NCS-AC-PWRTRAY	OPERATIONAL	UP	NSHUT

RP/0/RP0/CPU0:NCS6008-A#*show platform vm*

Mon Mar 31 21:26:11.922 UTC

Node name	Node type	Partner name	SW status	IP address
0/4/CPU0	LC (ACTIVE)	NONE	FINAL Band	192.0.80.3
0/3/CPU0	LC (ACTIVE)	NONE	FINAL Band	192.0.76.3
0/RP0/CPU0	RP (ACTIVE)	0/RP1/CPU0	FINAL Band	192.0.0.4
0/RP1/CPU0	RP (STANDBY)	0/RP0/CPU0	FINAL Band	192.0.4.4

sysadmin-vm:0_RP0# *show platform ?*

Description: Show platform node information

Possible completions:

- detail Show details of node type and state
 - location Location of node to show; omit to show all locations
 - slices Show summary of node forwarding slices
 - | Output modifiers
- <cr>

sysadmin-vm:0_RP0# *show platform*

Mon Mar 31 21:32:14.929 UTC

Location	Card Type	HW State	SW State	Config State
0/RP0	NC6-RP	OPERATIONAL	OPERATIONAL	NSHUT
0/RP1	NC6-RP	OPERATIONAL	OPERATIONAL	NSHUT
0/FC0	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FC1	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FC2	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FC3	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FC4	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FC5	NC6-FC	OPERATIONAL	N/A	NSHUT
0/FT0	NC6-FANTRAY	OPERATIONAL	N/A	NSHUT
0/FT1	NC6-FANTRAY	OPERATIONAL	N/A	NSHUT
0/3	NC6-10X100G-M-P	OPERATIONAL	OPERATIONAL	NSHUT
0/4	NC6-10X100G-L-K	OPERATIONAL	OPERATIONAL	NSHUT
0/PT0	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT1	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT2	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT3	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT4	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT
0/PT5	NCS-AC-PWRTRAY	OPERATIONAL	N/A	NSHUT

sysadmin-vm:0_RP0# *show platform slices*

```

Mon Mar 31 21:29:29.852 UTC
Location      Slice Num   Admin State   Oper State
-----
0/3           0           UP            UP
              1           UP            UP
              2           UP            UP
              3           UP            UP
              4           UP            UP
0/4           0           UP            UP
              1           UP            UP
              2           UP            UP
              3           UP            UP
              4           UP            UP

```

```

sysadmin-vm:0_RP0# show platform detail loc 0/4/cpu0
Sun Feb 1 03:09:15.363 UTC

```

```

Platform Information for 0/4/cpu0
PID :                NC6-10X100G-M-P
Description :        "NCS 6000 10x100G Multi-Service CXP"
VID/SN :            V01
HW Oper State :     OPERATIONAL
SW Oper State :     OPERATIONAL
Configuration :     "NSHUT RST"
HW Version :        0.6
Last Event :        HW_EVENT_OK
Last Event Reason : "Initial discovered state:BOOTED (card ok)"

```

```

RP/0/RP1/CPU0:CRS-H#show platform

```

```

Mon Mar 31 17:21:18.956 EDT
Node          Type          PLIM          State          Config State
-----
0/0/CPU0     MSC-140G     14-10GbE     IOS XR RUN     PWR,NSHUT,MON
0/4/CPU0     MSC-140G     1-100GbE     IOS XR RUN     PWR,NSHUT,MON
0/RP0/CPU0   RP(Standby)  N/A          IOS XR RUN     PWR,NSHUT,MON
0/RP1/CPU0   RP(Active)   N/A          IOS XR RUN     PWR,NSHUT,MON
1/2/CPU0     MSC-140G     N/A          IN-RESET      PWR,NSHUT,MON
1/3/CPU0     MSC          Jacket Card   IOS XR RUN     PWR,NSHUT,MON
1/3/1        MSC(SPA)     8X1GE        OK             PWR,NSHUT,MON
1/4/CPU0     MSC          10C768-POS   IOS XR RUN     PWR,NSHUT,MON
1/5/CPU0     FP-140G     4-40GbE-OTN IOS XR RUN     PWR,NSHUT,MON
1/8/CPU0     MSC          Jacket Card   IOS XR RUN     PWR,NSHUT,MON
1/8/1        MSC(SPA)     4XOC3-POS-V2 OK             PWR,NSHUT,MON
1/9/CPU0     MSC          10C768-DWDM  IOS XR RUN     PWR,NSHUT,MON
1/RP0/CPU0   RP(Active)   N/A          IOS XR RUN     PWR,NSHUT,MON
1/RP1/CPU0   RP(Standby)  N/A          IOS XR RUN     PWR,NSHUT,MON

```

```

RP/0/RP1/CPU0:CRS-H#show platform ?
WORD Partially qualified location specification
drops Forwarding drops
| Output Modifiers
<cr>

```

show reboot

Summary: Due to the separation of the XR VM and SysAdmin VM, the *show reboot* command has changed in NG-XR.

Details: Under the XR VM, you can view the reboot history of the XR VM for each active linecard / RP.

Under the SysAdmin VM, the reboot history of the SysAdmin VM for each active linecard / RP can be viewed, along with the reboot history for the linecard / RP itself (recall that the SysAdmin VM can be rebooted without a reload of the actual linecard).

Significance: Minor

```
RP/0/RP0/CPU0:NCS#show reboot ?  
  history  Display reboot history of node  
RP/0/RP0/CPU0:TLAB97-NCS1#  
RP/0/RP0/CPU0:TLAB97-NCS1#  
RP/0/RP0/CPU0:TLAB97-NCS1#admin  
Wed Dec 11 03:37:51.036 EST
```

```
admin connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0  
sysadmin-vm:0_RP1# show reboot ?  
Description: Show reboot history events  
Possible completions:  
  admin-vm  Admin VM reboot history  
  card      Card reboot history  
  reverse   Show reboot history in reverse order  
  |         Output modifiers  
<cr>
```

show sdr-invmgr

Summary: This is a newly added command in XR + Sysadmin VM.

Details: This has new operational behavior.

Significance: Major

show tech-support

Summary: There are output changes with command keyword options changes

Details: Support for these *show tech-support* keywords is removed on the NCS 6000:

- *aipcproxy*
- *atm*
- *call-home*
- *chdlc*
- *config-group*
- *controllers*
- *crypto*
- *fabio*
- *frame-relay*
- *ipinfra*
- *lrd*
- *onep*
- *platform*
- *rib*
- *svd*
- *sysmgr*
- *tunnel-ip*

Support for these admin mode *show tech-support* keywords is removed on the NCS 6000:

- *asic*
- *bundles*
- *cfgmgr*

- *control-ethernet*
- *diagnostics*
- *dsc*
- *ees*
- *health-check*
- *invmgr*
- *issu*
- *license*
- *lrd*
- *nrs*
- *pcie*
- *shelfmgr*
- *sysdb*
- *sysmgr*

Support for these *show tech-support* keywords is available on NCS 6008, but not on the CRS:

- *fabric* – In XR VM on NCS 6008
- *install* – In XR VM on NCS 6008
- *lwm* – In XR VM on NCS 6008
- *npu* – In XR VM on NCS 6008
- *processmgr* – In XR VM on NCS 6008
- *rdm* – In XR VM on NCS 6008
- *sdr-invmgr* – In XR VM on NCS 6008

Support for these SysAdmin VM *show tech-support* keywords is available on the NCS 6000, but not on the CRS:

- *alarm_mgr*
- *all*
- *ccc*
- *confd*
- *envmon*
- *fpd*
- *obfl*
- *pm*
- *sdr_mgr*
- *shelf_mgr*
- *slice_manager*
- *syslog*

Significance: Minor

RP/0/RP0/CPU0:NCS#*show tech-support ?*

access-lists	Output show commands of interest for access-lists debugging
aps	Output show commands of interest for APS debugging
arp	Output show commands of interest for ARP debugging
bcdl	Output show commands of interest for bcdl debugging
bcdlv2	Output show commands of interest for bcdlv2 debugging
bundles	Output show commands of interest for bundle debugging
cef	CEF tech-support information
cef	Output show commands of interest for CEF debugging
cfgmgr	cfgmgr tech-support information
chkpt	Gather information required to debug checkpoint
cpuctrl	cpuctrl tech-support
dhcp	DHCP tech-support
eem	Show eem information for tech-support

ema	Output show commands of interest for ema debugging
ethernet	Output show commands of interest for ethernet debugging
fabric	fabric tech support information
file	Specify a valid file name (e.g. disk0:tmp.log)
gsp	gsp tech-support information
hsrp	Output show commands of interest for HSRP debugging
install	Gather all the information about Install for tech-support
iphc	Output show commands of interest for iphc debugging
l2tp	Output show commands for L2TP tech-support
l2vpn	Output show commands for L2VPN debugging
location	Specify a location
lpts	show tech-support output for LPTS
lwm	Gather all the information about the Light Weight Messaging (LWM)
mpls	Output show commands of interest for MPLS debugging
multicast	Show multicast related information
multilink	show tech-support output for multilink
netflow	Output show commands of interest for Netflow debugging
npu	npu tech-support
nrs	NRS tech-support information
p2p-ipc	aipc show tech-support output
parser	Parser show tech-support output for debugging
password	Include password in output
performance-mgmt	Performance management show tech-support output
pfi	Collect PFI related information and save to disk
placed	Gather all the information about the Placement Daemon (Placed)
pos	Output show commands of interest for pos debugging
ppp	Output show commands of interest for ppp debugging
processmgr	Gather all the information about the Process Manager (ProcessMgr)
protection-notif	Collect fast traffic protection information and save to disk
qos	Collect QOS related information and save to disk
rack	Show list of racks
radius	Output show commands of interest for radius debugging
rcmd	RCMD show tech-support output
rdm	rdm tech-support
rdsfs	Gather lots of information about RDSFS
rib	Show IP RIB related information
routing	Routing show tech-support output
rsi	show tech-support output for RSI (Router Space Infrastructure)
sanitized	Sanitized configuration in output
sdr-invmgr	Spawn parallel show tech-support - use only if directed
serial	Output show commands of interest for serial debugging
services	Show tech-support information relating to services
snmp	SNMP tech-support information
spa	Gather information about SPA
spp	Output show commands of interest for SPP debugging
srlg	show tech-support output for SRLG (Shared Risk Link Group)
ssm	Service State Monitoring (SSM) tech-support information
statsd	Output show commands of use for statistics debugging
sysdb	System Database (SysDB) tech-support information
tcp	TCP supported trace and debugging
tunnel-template	Output show commands of interest for tunnel-template debugging
vrrp	Output show commands of interest for VRRP debugging
xos	Gather information about Cross-OS Services
<cr>	

RP/0/RP0/CPU0:NCS#**admin**
Sat Mar 12 23:45:23.763 UTC

cisco connected from 127.0.0.1 using console on xr-vm_node0_RP0_CPU0
sysadmin-vm:0_RP0# **show tech-support ?**

Possible completions:

alarm_mgr	Show tech of alarm_mgr process
all	Show tech of entire node
ccc	Show tech of ccc_driver process
confd	show debug information for confd
control-ethernet	Show tech of control ethernet subsystem

envmon	Show tech of envmon process
fabric	Show tech of fabric component
fpd	Show tech of fpd process
install	show debug information for install
obfl	Show tech of obfl process
pm	Show tech of pm process
sdr_mgr	Show tech of sdr_mgr process
shelf_mgr	Show tech of shelf_mgr process
slice_manager	Show tech of slice_manager process
syslog	Show tech of syslog process

RP/0/RP0/CPU0:CRS#**show tech-support ?**

access-lists	Output show commands of interest for access-lists debugging (cisco-support)
aipcproxy	Gather lots of information about aipc_proxy (cisco-support)
aps	Output show commands of interest for APS debugging
arp	Output show commands of interest for ARP debugging (cisco-support)
atm	Output show commands of interest for atm debugging (cisco-support)
bcdl	Output show commands of interest for bcdl debugging
bcdlv2	Output show commands of interest for bcdlv2 debugging (cisco-support)
bundles	Output show commands of interest for bundle debugging (cisco-support)
call-home	Show call-home information for tech-support
cef	CEF tech-support information(cisco-support)
cef	Output show commands of interest for CEF debugging
cfgmgr	cfgmgr tech-support information(cisco-support)
chdlc	Output show commands of interest for chdlc debugging (cisco-support)
chkpt	Gather information required to debug checkpoint (cisco-support)
config-group	Config Group tech-support information(cisco-support)
controllers	Show tech-support information for controllers(cisco-support)
cpuctrl	cpuctrl tech-support(cisco-support)
crypto	CRYPTO show tech-support output
dhcp	DHCP tech-support(cisco-support)
eem	Show eem information for tech-support
ethernet	Ethernet show tech commands(cisco-support)
ethernet	Output show commands of interest for ethernet debugging (cisco-support)
fabio	fabio tech-support(cisco-support)
file	Specify a valid file name (e.g. disk0:tmp.log)
frame-relay	Output show commands of interest for Frame-Relay debugging (cisco-support)
gsp	gsp tech-support information
hsrp	Output show commands of interest for HSRP debugging (cisco-support)
iphc	Output show commands of interest for iphc debugging
ipinfra	Output show commands of interest for ip-infra debugging (cisco-support)
l2tp	Output show commands for L2TP tech-support(cisco-support)
l2vpn	Output show commands for L2VPN debugging(cisco-support)
location	Specify a location(cisco-support)
lpts	show tech-support output for LPTS
lrd	Output show commands of interest for lrd debugging (cisco-support)
mpls	Output show commands of interest for MPLS debugging (cisco-support)
multicast	Show multicast related information
multilink	show tech-support output for multilink(cisco-support)
netflow	Output show commands of interest for Netflow debugging (cisco-support)
nrs	NRS tech-support information

```

onep                Collect ONEP related information and save to disk
                    (cisco-support)
p2p-ipc             aipc show tech-support output
parser              Parser show tech-support output for debugging
                    (cisco-support)
password            Include password in output
performance-mgmt    Performance management show tech-support output(cisco-support)
pfi                 Collect PFI related information and save to disk(cisco-support)
placed              Gather all the information about the Placement Daemon (Placed)
platform            show tech-support platform output(cisco-support)
pos                 Output show commands of interest for pos debugging
                    (cisco-support)
ppp                 Output show commands of interest for ppp debugging
                    (cisco-support)
protection-notif    Collect fast traffic protection information and save to disk
                    (cisco-support)
qos                 Collect QOS related information and save to disk(cisco-support)
rack                Show list of racks(cisco-support)
radius              Output show commands of interest for radius debugging
                    (cisco-support)
rcmd                RCMD show tech-support output
rdsfs               Gather lots of information about RDSFS(cisco-support)
rib                 Show IP RIB related information(cisco-support)
routing             Routing show tech-support output
rsi                 show tech-support output for RSI (Router Space Infrastructure)
                    (cisco-support)
sanitized           Sanitized configuration in output
satellite           Collect Satellite related information and save to disk
                    (cisco-support)
serial              Output show commands of interest for serial debugging
                    (cisco-support)
services            Show tech-support information relating to services
                    (cisco-support)
snmp                SNMP tech-support information(cisco-support)
spa                 Gather information about SPA
spaipc              Output show commands of interest for spaipc debugging
                    (cisco-support)
span                Collect tech-support information for the SPAN feature
                    (cisco-support)
spio                Collect SPIO information and save to disk(cisco-support)
spp                 Output show commands of interest for SPP debugging
                    (cisco-support)
srlg                show tech-support output for SRLG (Shared Risk Link Group)
                    (cisco-support)
ssm                 Service State Monitoring (SSM) tech-support information
statsd              Output show commands of use for statistics debugging
                    (cisco-support)
svd                 show tech-support output for svd(cisco-support)
sysdb               System Database (SysDB) tech-support information(cisco-support)
sysmgr              Gather all the information about the System Manager (SysMgr)
tcp                 TCP supported trace and debugging
tty                 TTY tech-support information(cisco-support)
tunnel-ip           Output show commands of interest for GRE/IPinIP(cisco-support)
tunnel-template     Output show commands of interest for tunnel-template debugging
vrrp                Output show commands of interest for VRRP debugging
                    (cisco-support)
xos                 Gather information about Cross-OS Services
<cr>

```

RP/0/RP0/CPU0:CRS#**admin**

RP/0/RP0/CPU0:CRS(admin)#**show tech-support ?**

```

asic                Run asic snapshot script
bundles             Output show commands of interest for bundle debugging
                    (cisco-support)
cctl                Spawn parallel show tech-support - use only if directed
cfgmgr              cfgmgr tech-support information(cisco-support)

```

control-ethernet	Output show commands of interest for control-ethernet debugging
diagnostics	Output show commands of interest for diagnostics debugging
dsc	DSC tech-support for troubleshooting
ees	Show EES snapshot information for tech-support
fabric	Output of show tech-support from fabric debugging
file	Specify a valid file name (e.g. disk0:tmp.log)
gsp	gsp tech-support information
health-check	Run health check script
install	Write install information for tech-support to a file
invmgr	Spawn parallel show tech-support - use only if directed
issu	Write ISSU information for tech-support to a file
license	Show license information for tech-support
location	Specify a location
lrd	LRd tech-support information
media	Write media information for tech-support to a file
nrs	NRS tech-support information
password	Include password in output
pcie	Output show commands of interest for pcie debugging
pm	Output show commands of interest for power-management debugging
rack	Show list of racks
sanitized	Sanitized configuration in output
shelfmgr	Spawn parallel show tech-support - use only if directed
sysdb	System Database (SysDB) tech-support information
sysdb-config-grp	System Database (SysDB) Config Group tech-support information
sysmgr	Gather all the information about the System Manager (SysMgr)
<cr>	

show version

Refer to the show version section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are major output changes.

Details: The output is greatly simplified on the NCS 6008, due to the different OS structure.

Significance: Minor

```
RP/0/RP0/CPU0:NCS6008-SJ#show version
Wed Feb 19 13:28:14.726 UTC
```

```
Cisco IOS XR Software, Version 5.0.1
Copyright (c) 2013 by Cisco Systems, Inc.
```

Build Information:

```
Built By      : palwal
Built On     : Tue Feb  4 13:35:37 PST 2014
Build Host   : iox-bld4
Workspace    : /auto/srcarchive9/production/5.0.1/all/workspace
Version      : 5.0.1
Location     : /opt/cisco/XR/packages/
```

System uptime is 6 days, 23 hours, 25 minutes

```
RP/0/RP0/CPU0:NCS6008-SJ#admin
Wed Feb 19 13:28:35.460 UTC
```

```
sysadmin-vm:0_RP0# show version
Wed Feb 19 13:29:39.923 UTC
```

```
Cisco IOS XR Admin Software, Version 5.0.1
Copyright (c) 2013 by Cisco Systems, Inc.
```



```
Build Information:
Built By      : palwal
Built On     : Tue Feb  4 11:17:38 PST 2014
Build Host   : iox-bld4
Workspace    : /auto/srcarchive9/production/cal-r50x-501
Version     : 5.0.1
Location    : /opt/cisco/calvados/packages/
```

BIOS Version : 10.2

System uptime is 6 days, 23 hours, 28 minutes

sysadmin-vm:0_RP0#

top

Refer to the top section of the *System Administration Command Reference for the Cisco NCS 6000 Series Routers* for more information.

Summary: There are changes to keyword options and outputs. The command is available in both SysAdmin VM and XR VM.

Details: The keyword location for the *dumbtty* is moved in the CLI. On the NCS 6000, the top can be specified with the location of the linecard while on CRS. It does not work for the linecard location.

Significance: Minor

sysadmin-vm:0_RP0# **top location 0/4 dumbtty**

Thu Feb 12 21:54:27.686 UTC

Location : 0/4

```
top - 21:54:28 up 18:54,  1 user,  load average: 0.00, 0.00, 0.00
Tasks: 153 total,  1 running, 152 sleeping,  0 stopped,  0 zombie
Cpu(s):  1.2%us,  0.5%sy,  0.0%ni, 98.2%id,  0.0%wa,  0.0%hi,  0.0%si,  0.0%st
Mem:   1009016k total,  769648k used,  239368k free,   27072k buffers
Swap:   14444k total,    0k used,   14444k free,  323424k cached
```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+	COMMAND
1	root	20	0	14932	1368	1132	S	0.0	0.1	0:01.76	init
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kthreadd
3	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	migration/0
4	root	20	0	0	0	0	S	0.0	0.0	0:01.28	ksoftirqd/0
5	root	RT	0	0	0	0	S	0.0	0.0	0:00.00	watchdog/0
6	root	20	0	0	0	0	S	0.0	0.0	0:02.68	events/0
7	root	20	0	0	0	0	S	0.0	0.0	0:00.00	cpuset
8	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khelper
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00	netns
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00	async/mgr
11	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pm
12	root	20	0	0	0	0	S	0.0	0.0	0:00.06	sync_supers
13	root	20	0	0	0	0	S	0.0	0.0	0:00.08	bdi-default
14	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kintegrityd/0
15	root	20	0	0	0	0	S	0.0	0.0	0:00.20	kblockd/0
16	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kacpid
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kacpi_notify

88	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pciehp_0000:59
89	root	20	0	0	0	0	S	0.0	0.0	0:00.00	pciehp_0000:59
90	root	20	0	0	0	0	S	0.0	0.0	0:00.03	pciehp_0000:59
91	root	20	0	0	0	0	S	0.0	0.0	0:00.01	pciehp_0000:59
93	root	20	0	0	0	0	S	0.0	0.0	0:00.00	uio/0
94	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kpsmouse
95	root	20	0	0	0	0	S	0.0	0.0	0:00.00	usbhid_resumer
114	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kstriped
529	root	20	0	0	0	0	S	0.0	0.0	0:00.00	scsi_0
530	root	20	0	0	0	0	S	0.0	0.0	0:00.00	scsi_1
539	root	20	0	0	0	0	S	0.0	0.0	0:00.00	khvcd
567	root	20	0	0	0	0	S	0.0	0.0	0:00.07	jbd2/vda1-8
568	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-unwrit
618	root	16	-4	4576	1100	432	S	0.0	0.1	0:00.08	udev
1106	root	20	0	0	0	0	S	0.0	0.0	0:00.78	jbd2/vdc1-8
1107	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-unwrit
1151	root	20	0	0	0	0	S	0.0	0.0	0:00.00	jbd2/vdc2-8
1152	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-unwrit
1165	root	20	0	0	0	0	S	0.0	0.0	0:00.00	jbd2/vdc3-8
1166	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-unwrit
1175	root	20	0	0	0	0	S	0.0	0.0	0:00.00	kjournal
1328	root	20	0	11280	1304	1100	S	0.0	0.1	0:00.00	oom.sh
1332	root	20	0	0	0	0	S	0.0	0.0	0:00.00	low_mem_thread
1334	root	20	0	11280	552	300	S	0.0	0.1	0:00.17	oom.sh
1440	root	20	0	6104	660	524	S	0.0	0.1	0:00.22	syslogd
1444	root	20	0	6848	3380	432	S	0.0	0.3	0:00.08	klogd
1499	root	20	0	13172	864	712	S	0.0	0.1	0:00.03	lldpad
1511	root	20	0	12844	624	456	S	0.0	0.1	0:00.00	dbus-daemon
1543	root	20	0	23252	1140	772	S	0.0	0.1	0:00.00	sshd
1551	root	20	0	11120	836	676	S	0.0	0.1	0:00.00	xinetd
1583	root	20	0	7012	1096	572	S	0.0	0.1	0:00.35	crond
1595	root	20	0	148m	4268	2928	S	0.0	0.4	0:00.13	libvirtd
1664	root	20	0	3992	392	312	S	0.0	0.0	0:00.00	agetty
1690	root	20	0	3992	388	312	S	0.0	0.0	0:00.00	agetty
1692	root	20	0	3992	392	312	S	0.0	0.0	0:00.00	agetty
1715	root	18	-2	4572	1064	400	S	0.0	0.1	0:00.00	udev
1716	root	18	-2	4572	976	312	S	0.0	0.1	0:00.00	udev
1724	root	20	0	0	0	0	S	0.0	0.0	0:00.00	jbd2/vdb1-8
1725	root	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-unwrit
1727	root	20	0	144m	11m	3860	S	0.0	1.2	0:04.96	pm
1732	root	20	0	201m	7916	4004	S	0.0	0.8	0:00.65	bios_fpd
1733	root	20	0	110m	4776	2792	S	0.0	0.5	0:00.14	calv_alarm_mgr
1734	root	20	0	424m	19m	5652	S	0.0	1.9	8:20.74	ccc_driver
1735	root	20	0	172m	16m	3188	S	0.0	1.7	0:04.05	cm
1736	root	20	0	83668	2916	1864	S	0.0	0.3	0:00.67	debug_client
1737	root	20	0	120m	9472	2200	S	0.0	0.9	0:00.71	ds
1738	root	20	0	106m	3068	1920	S	0.0	0.3	0:00.64	dumper
1739	root	20	0	266m	11m	5088	S	0.0	1.2	0:06.72	envmon
1740	root	20	0	429m	16m	6060	S	0.0	1.7	0:28.45	esd
1741	root	20	0	197m	8192	4900	S	0.0	0.8	0:02.28	inst_agent
1742	root	20	0	165m	7552	3932	S	0.0	0.7	0:01.25	led_mgr
1743	root	20	0	90160	3340	2136	S	0.0	0.3	0:01.99	ntp_helper
1744	root	20	0	175m	7472	4152	S	0.0	0.7	0:02.82	obfl_mgr
1745	root	20	0	112m	3608	2332	S	0.0	0.4	0:01.69	obfl_show
1746	root	20	0	238m	28m	4140	S	0.0	2.9	0:00.79	sdr_mgr
1747	root	20	0	359m	19m	7116	S	0.0	2.0	0:12.10	shelf_mgr
1748	root	20	0	102m	4008	2584	S	0.0	0.4	0:00.97	ship_server
1749	root	20	0	338m	16m	7192	S	0.0	1.7	7:22.68	slice_manager
1750	root	20	0	99584	3280	2108	S	0.0	0.3	0:01.69	ssh_key_client
1751	root	20	0	140m	4204	2620	S	0.0	0.4	0:54.73	syslogd_helper
1752	root	20	0	102m	3604	2432	S	0.0	0.4	0:00.65	timezone_notify
1753	root	20	0	146m	7864	3864	S	0.0	0.8	0:01.68	vm_manager
1754	root	20	0	121m	6680	2464	S	0.0	0.7	0:06.02	wdmon
1782	root	20	0	37860	2528	1912	S	0.0	0.3	0:00.00	ssh
2012	root	20	0	28176	1488	1160	S	0.0	0.1	0:00.26	ntpd
4680	root	20	0	0	0	0	S	0.0	0.0	0:00.05	flush-252:32

```

7469 root      20    0    0    0    0 S  0.0  0.0   0:00.00 flush-252:0
7521 root      20    0 3852  392 316 S  0.0  0.0   0:00.00 sleep
7522 root      20    0 27884 2432 1972 S  0.0  0.2   0:00.01 sshd
7524 root      20    0 10820 1164  844 R  0.0  0.1   0:00.00 top

```

```

RP/0/RP0/CPU0:CRS-J(admin)#top dumbtty loc ?
WORD Fully qualified location specification

```

```

RP/0/RP0/CPU0:CRS-J(admin)#top dumbtty loc 0/RP0/CPU0
Wed Nov 27 15:55:14.736 UTC
Computing times...348 processes; 1904 threads;
CPU states: 97.6% idle, 2.0% user, 0.2% kernel
Memory: 12288M total, 10004M avail, page size 4K
Time: Wed Nov 27 15:55:16.911 UTC

```

JID	TID	LAST_CPU	PRI	STATE	HH:MM:SS	CPU	COMMAND
367	10	1	10	Run	0:00:42	0.84%	qsm
367	11	1	10	Rcv	0:00:23	0.67%	qsm
67	10	1	50	NSlp	1:29:44	0.33%	ce_switch
1	63	0	10	Run	0:02:49	0.29%	procnto-smp-instr
67	9	1	50	NSlp	0:31:09	0.12%	ce_switch
67	6	1	10	NSlp	0:12:26	0.04%	ce_switch
65883	1	0	10	Rply	0:00:00	0.02%	top
62	12	1	55	Rcv	0:19:41	0.02%	eth_server
67	11	1	56	NSlp	0:00:02	0.00%	ce_switch
343	1	0	10	Rcv	0:00:00	0.00%	oir_daemon

```

RP/0/RP0/CPU0:CRS-J(admin)#top loc 0/RP0/CPU0 ?
<cr>

```

```

RP/0/RP0/CPU0:CRS-J(admin)#top loc 0/0/CPU0
Wed Nov 27 15:56:40.661 UTC
Sorry, that node can't be found
RP/0/RP0/CPU0:CRS-J(admin)#show plat
Wed Nov 27 15:56:46.461 UTC

```

Node	Type	PLIM	State	Config State
0/0/CPU0	MSC-140G	20-10GbE	IOS XR RUN	PWR,NSHUT,MON
0/1/SP	MSC(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/1/CPU0	MSC	Jacket Card	IOS XR RUN	PWR,NSHUT,MON
0/1/0	MSC(SPA)	OC192RPR-XFP	OK	PWR,NSHUT,MON
0/1/1	MSC(SPA)	8X1GE	OK	PWR,NSHUT,MON
0/1/2	MSC(SPA)	10X1GE	OK	PWR,NSHUT,MON
0/6/SP	MSC(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/6/CPU0	MSC	4-10GbE	IOS XR RUN	PWR,NSHUT,MON
0/7/SP	MSC(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/7/CPU0	MSC	10C768-POS	IOS XR RUN	PWR,NSHUT,MON
0/RP0/CPU0	RP(Active)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/RP1/CPU0	RP(Standby)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/SM0/SP	FC-140G/S(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/SM1/SP	FC-140G/S(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/SM2/SP	FC-140G/S(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON
0/SM3/SP	FC-140G/S(SP)	N/A	IOS XR RUN	PWR,NSHUT,MON

```

RP/0/RP0/CPU0:CRS-J(admin)#top loc 0/1/CPU0
Wed Nov 27 15:56:57.012 UTC
Sorry, that node can't be found

```

Cisco NCS 6000 Series Router Command Reference Guides

- *System Administration Command Reference for the Cisco NCS 6000 Series Routers*
- *System Management Command Reference for the Cisco NCS 6000 Series Router, Release 5.0.x*

