

# NCS 6008 Platform Independent CLI - Modifiche ai comandi

## Introduzione

Questo documento descrive i comandi CLI indipendenti dalla piattaforma Cisco Network Convergence System (NCS) 6000 in Cisco IOS<sup>®</sup> XR release 5.0.1 che sono stati modificati rispetto ai router Cisco Carrier Routing System (CRS) con altre versioni di Cisco IOS XR.

Questo documento è destinato a chi conosce Cisco IOS XR e desidera comprendere quali modifiche della CLI sono state apportate a NCS 6008 e alla release 5.0.1.

**Nota:** Questo documento non tratta i comandi dipendenti dalla piattaforma (PD) che sono stati modificati o creati specificamente per la piattaforma NCS 6008.

## Prerequisiti

### Requisiti

Cisco raccomanda la conoscenza approfondita dei seguenti argomenti:

- Comandi CLI di Cisco IOS XR
- NCS 6008 Architettura

### Componenti usati

Il documento è limitato a Cisco IOS XR release 5.0.1 eseguito su NCS 6008.

Le informazioni discusse in questo documento fanno riferimento a dispositivi usati in uno specifico ambiente di emulazione. Su tutti i dispositivi menzionati nel documento la configurazione è stata ripristinata ai valori predefiniti. Se la rete è operativa, valutare attentamente eventuali conseguenze derivanti dall'uso dei comandi.

## Modalità d'uso del documento

I comandi indipendenti dalla piattaforma NCS 6008 elencati in questo documento sono stati modificati per NCS 6008 e Cisco IOS XR release 5.0.1. Ciascun comando è elencato in ordine alfabetico. Viene fornita una sintesi delle modifiche e ulteriori dettagli sulle differenze specifiche. Ogni comando è collegato alla Guida di riferimento dei comandi appropriata, quando disponibile.

Per molti comandi sono inclusi output CLI di esempio e confronti con output CLI CRS.

Per ogni comando è stata designata una significatività Minore o Maggiore per consentire al lettore di identificare modifiche significative rispetto a quelle che sono solo modifiche di sintassi, opzione o output minori.

## abbinamento

Per ulteriori informazioni, fare riferimento alla sezione [attach](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** L'opzione è disponibile in modalità di esecuzione.

**Dettagli:** Per connettersi a un host da una posizione remota, utilizzare il comando **attach location** in modalità di esecuzione System Admin e XR EXEC. Questa operazione differisce leggermente dal comando **run attach** sulla piattaforma CRS a causa della separazione tra le macchine virtuali (VM) System Admin (SysAdmin) e XR (VM) in Cisco IOS XR release 5.0.1. Per ogni scheda di linea e processore di routing (RP), esiste una shell host per le macchine virtuali (VM) System Admin e XR.

**Importanza:** Minor (Minore)

Di seguito viene riportata la modalità di collegamento a una scheda di linea o RP da 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/RP1/CPU0
Mon Jan 20 10:04:08.287 UTC
[xr-vm_node0_RP1_CPU0:~]$ export PS1=#
#
#
#exit
```

Di seguito viene riportata la modalità di collegamento a una scheda di linea o RP dalla VM SysAdmin:

```
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#
```

## contesto chiaro

Per ulteriori informazioni, consultare la sezione [clear context](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** Sono presenti modifiche di comportamento minori.

**Dettagli:** e offre le stesse opzioni CLI.

**Importanza:** Minor (Minore)

## copia

Per ulteriori informazioni, consultare la sezione [copy](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** Alcune opzioni non sono disponibili. È difficile copiare tra la VM SysAdmin e la VM XR.

**Dettagli:** FTP è supportato per il trasferimento di file in XR VM copy CLI.

I file system della VM SysAdmin e della VM XR sono separati. Le VM SysAdmin e XR dispongono entrambe di un **disco rigido**: e **disk0**: directory. Quando si copiano o si installano pacchetti aggiuntivi dal **disco 0**: o **hard disk**:, i pacchetti installati dalla VM XR (iso, pacchetti opzionali, XR SMU) devono essere copiati nel file system della VM XR. Le SMU delle VM di SysAdmin vengono copiate nel file system della VM di amministrazione prima di eseguire l'operazione di aggiunta dell'installazione.

**Importanza:** Importante

```
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
```

## descrivere

**Riepilogo:** Sono presenti modifiche di output minori. Il comando è disponibile nella VM XR e nella VM SysAdmin.

L'output del comando indica che sono state apportate alcune modifiche ai TaskID necessari per eseguire i comandi XR su un CRS rispetto a NCS-6008.

**Dettagli:** Se **description** viene utilizzato nella macchina virtuale SysAdmin, funziona per alcuni comandi ma non per altri. La versione VM SysAdmin di questo output del comando visualizza il comando del sistema operativo Linux chiamato per eseguire il comando nella VM SysAdmin. Poiché i TaskID non vengono utilizzati per eseguire i comandi della macchina virtuale SysAdmin, l'output descrittivo non include tali informazioni quando viene utilizzato nella macchina virtuale SysAdmin.

### Importanza: Minor (Minore)

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)

```

## discarica

Per ulteriori informazioni, consultare la sezione [dumpcore](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** Le opzioni e il comportamento di CLI sono stati modificati in modo marginale.

**Dettagli:** Al posto del dumper viene utilizzato il corehelper di processo. Quando si esegue dumpcore su NCS, l'output nei syslog è ridotto, in quanto crashinfo non viene scritto sul syslog dal dumper.

**Importanza:** Minor (Minore)

```
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/libsystemgr.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/libbios.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

```

RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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 0x000062000 0x083a3000  
0x00002000 0  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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  
RP0/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 :  
/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 :

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/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/libipv6_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/libipv4_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/libipv6_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/libipv4_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/libipv6_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/libipv4.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/libipv4_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_ipv6_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
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
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0x0ad30000 0x00001000 0
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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
RP0/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\_vl\_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
```

## seguire

Per ulteriori informazioni, consultare la [seguente](#) sezione della **guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x**.

**Riepilogo:** Le opzioni cambiano insieme all'output.

**Importanza:** Minor (Minore)

## install

Per ulteriori informazioni, consultare la sezione [install](#) della **guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000**.

**Riepilogo:** Insieme all'output sono presenti modifiche alle opzioni. Disponibile sia in modalità VM XR che in modalità VM SysAdmin.

**Dettagli:** La release 5.0.1 supporta solo una singola procedura di installazione di aggiornamento del sistema per il router dalla VM XR. L'installazione separata di una release per la VM SysAdmin e la VM XR non è supportata nella release 5.0.1, ad eccezione dell'installazione di Software Maintenance Update (SMU). Le unità SMU per ciascuna VM (SysAdmin o XR) devono essere installate dalla VM corretta. I pacchetti opzionali devono essere installati dalla VM XR.

L'opzione del comando **install prepare** è stata aggiunta per ridurre il tempo di inattività dell'aggiornamento/manutenzione. Il comando **install prepare** non è richiesto.

L'opzione di **interruzione dell'installazione** è deprecata. Non ci sono piani per sostenerla in futuro.

Il **rollback dell'installazione** è stato rimosso nella release 5.0.1. Un fallback/rollback a una release viene trattato come qualsiasi altro processo di installazione.

**Install commit** non è richiesto ed è implicito nella release 5.0.1. Il comando **install commit** è disponibile nella release 5.0.1, ma non è necessario in quanto il commit è automatico.

Nella release 5.2.1, il **commit di installazione** smetterà di essere implicito e richiederà un **commit di installazione** esplicito.

In una versione futura, verrà introdotta la possibilità di **installare il rollback** insieme alla modifica del comando **install commit**.

## Importanza: Importante

```
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
```

## monitorare i processi

Per ulteriori informazioni, vedere la sezione [Monitoraggio dei processi](#) della guida di riferimento dei comandi di System Management per Cisco NCS serie 6000 Router, versione 5.0.x.

**Riepilogo:** Sono presenti modifiche secondarie alle opzioni e all'output.

**Dettagli:** L'opzione relativa alla posizione non è disponibile.

## Importanza: Minor (Minore)

```
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>
```

## mostra configurazione

Per ulteriori informazioni, consultare la sezione [show configuration](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** L'output del comando **show configuration** è diverso dal classico XR.

**Dettagli:** Le parole chiave disponibili sono state modificate per la macchina virtuale SysAdmin. Le parole chiave per la VM XR rimangono le stesse di quelle per la versione XR classica.

**Importanza: Minor (Minore)**

## VM XR - Come IOS-XR tradizionale

```
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
```

**VM SysAdmin - (Solo parola chiave commit visualizzata come opzione):**

```
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
```

## mostra contesto

Per ulteriori informazioni, consultare la sezione [show context](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** Non ci sono modifiche significative alle opzioni CLI. Modifiche secondarie all'output CLI.

**Dettagli:** La directory in cui viene salvato il file di base non è sempre visualizzata (**disco rigido:** per default). Per impostazione predefinita, i file crashinfo non vengono scritti nella stessa directory dei file principali e vengono salvati nella directory **disk0:/core**. Il comando **show context** e il file crashinfo associato (.txt) includono backtrace e informazioni di registro per ciascun thread del processo di arresto anomalo su NCS 6008

**Importanza: Minor (Minore)**

```
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: 0xffffffffffffffffc  
rbx: 0x7fe0ab52fe30  
rcx: 0xfffffffffffffffff  
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: 0xffffffffffffffffc

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: 0xffffffffffffffffc  
rbx: 0xb67b70  
rcx: 0xffffffffffffffff  
rdx: 0x20  
rsi: 0xb67e00  
rdi: 0x6  
rbp: 0xb5e9c0  
rsp: 0x7fe08eae9790  
r8: 0xb68000  
r9: 0x0  
r10: 0xffffffff  
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 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 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: 0xffffffffffffffe0
rbx: 0x7fe0ab608008
rcx: 0xffffffffffffff
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: 0xffffffffffffffc
rbx: 0xb67b70
rcx: 0xffffffffffffff
rdx: 0x20
rsi: 0xb67e00
rdi: 0x6
rbp: 0xb5e9c0
rsp: 0x7fe08eae9790
r8: 0xb68000
r9: 0x0
r10: 0xffffffff
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 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 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: 0xffffffffffffffe0  
rbx: 0x7fe0ab608008  
rcx: 0xffffffffffffff  
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: 0xffffffffffffffe0  
rbx: 0x0  
rcx: 0xffffffffffffff  
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: 0xffffffffffffffff
rbx: 0xbb6290
rcx: 0xffffffffffffffff
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 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 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: 0xffffffffffffffff  
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: 0xffffffffffffffff  
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: 0xfffffffffffffffffc  
rbx: 0x7fe08e7cde20  
rcx: 0xffffffffffffffffff  
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: 0xffffffffffffffff  
rbx: 0x7fe08e74ce20  
rcx: 0xffffffffffffffff  
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: 0xffffffffffffffff  
rbx: 0x8  
rcx: 0xffffffffffffffff  
rdx: 0x20  
rsi: 0x7fe08e1b7d30  
rdi: 0x4d  
rbp: 0x7fe08e1b7ee0  
rsp: 0x7fe08e1b7a70  
r8: 0x0  
r9: 0x0  
r10: 0xffffffff  
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  
0000000000400000 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/l\_syslogd/dbg\_b2\_o846  
00007fe08e12e000 40K rw-s- /dev/shmem/ltrace/lwmlib/l\_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  
00007fe08fela000 4K rw---  
/opt/cisco/XR/packages/iosxr-fwding.rp\_lc-5.0.1/lib/libacl\_ltracedebug.so  
00007fe08felb000 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

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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  
00007fe093b1d000 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

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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/libbcm_proto.so.0.0.1
00007fe0958b0000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libbcm_proto.so.0.0.1
00007fe095aaf000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libbcm_proto.so.0.0.1
00007fe095ab0000     56K r-x--
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libbcm_capi.so.0.0.1
00007fe095abe000     2044K -----
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libbcm_capi.so.0.0.1
00007fe095cbd000      4K rw---
/opt/cisco/XR/packages/iosxr-os.rp_lc-5.0.1/lib/libbcm_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/libiparmltv.so
00007fe096bb3000    2044K -----
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmltv.so
00007fe096db2000         4K rw---
/opt/cisco/XR/packages/iosxr-fwding.rp_lc-5.0.1/lib/libiparmltv.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
00007fe0999ce2000         8K rw--- /lib64/libm-2.12.so
00007fe0999ce4000    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/libhdr\_invmgr\_capi.so  
00007fe09b517000 4K rw---  
/opt/cisco/XR/packages/iosxr-infra.rp\_lc-5.0.1/lib/libhdr\_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/libttynmspc.so  
00007fe09bd2e000 2048K -----  
/opt/cisco/XR/packages/iosxr-infra.rp\_lc-5.0.1/lib/libttynmspc.so  
00007fe09bf2e000 4K rw---  
/opt/cisco/XR/packages/iosxr-infra.rp\_lc-5.0.1/lib/libttynmspc.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 -----

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/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_pd.so
00007fe09ddd000      4K rw---
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libplatform_pd.so
00007fe09dde000      4K r-x--
/opt/cisco/XR/packages/ncs-os-support.rp_lc-5.0.1/lib/libbackplane.so
00007fe09ddf000    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
00007fe09dfd000     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---



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/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
00007fe0alb0b000      4K rw---
```

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/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

Per ulteriori informazioni, consultare la sezione [show dll](#) della guida di riferimento dei comandi di **System Management per Cisco NCS serie 6000 Router, versione 5.0.x**.

**Riepilogo:** Sono disponibili modifiche alle opzioni e all'output.

**Dettagli:** È supportata solo la parola chiave **pid**. La parola chiave location viene rimossa.

**Importanza:** Minor (Minore)

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

Per ulteriori informazioni, vedere la sezione [show controller fabric](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Le parole chiave del comando **show** vengono modificate.

**Dettagli:** Il supporto per le parole chiave **bundle**, **connettività** e **summary** viene rimosso. È aggiunto il supporto per le parole chiave **fsdb-aggregator** e **fsdb-server**. La maggior parte dell'output è molto simile.

Tutti i comandi show tranne la parola chiave **trace** si trovano nella macchina virtuale SysAdmin.

**Importanza:** Minor (Minore)

```
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 informaiton
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)

## mostra ambiente

Per ulteriori informazioni, consultare la sezione [show environment](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Sono presenti modifiche all'output e alle parole chiave dei comandi.

**Dettagli:** Il supporto per le parole chiave **led** e **tabella** viene rimosso. È stata aggiunta la parola chiave **current**. L'output è cosmeticamente diverso. L'output include informazioni per sezione.

**Importanza:** Minor (Minore)

```

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>

```

## mostra file system

Per ulteriori informazioni, consultare la sezione [show filesystem](#) della guida di riferimento dei comandi di System Management per Cisco NCS serie 6000 Router, versione 5.0.x.

**Riepilogo:** Le opzioni possono essere modificate insieme all'output della CLI.

**Dettagli:** Viene visualizzato il messaggio di errore **show filesystem disk0: non funziona più**. Il comando non è disponibile dalla macchina virtuale SysAdmin. Il comando visualizza le stesse

informazioni dalla modalità admin ed esegui su un CRS ma non su NCS 6008.

### Importanza: Minor (Minore)

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_disk1a:
11492376576	9500605440	dumper-lnk	rw	qsm/dumper_disk1:
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_diskl1:
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)

## mostra installazione

Per ulteriori informazioni, consultare la sezione [show install](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Sono presenti modifiche alle opzioni delle parole chiave e all'output.

**Dettagli:** Viene aggiunto il supporto per le parole chiave **prepare** e **repository**. Il supporto per la parola chiave **summary** viene rimosso.

**Importanza:** Importante

```
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
```

## mostra inventario

Per ulteriori informazioni, consultare la sezione [show inventory](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Sono presenti modifiche all'output insieme a modifiche alle parole chiave.

**Dettagli:** Il supporto per la parola chiave **trace** è stato rimosso. La maggior parte degli altri display e funzionalità sono identici.

Il comando **show inventory** può essere eseguito dalla VM XR o dalla VM SysAdmin e visualizza output simili in entrambe le VM. Il comando **show inventory** output nella VM XR visualizza i PID e i numeri di serie per le ottiche installate nelle schede di linea, mentre queste informazioni non sono incluse quando vengono eseguite dalla VM SysAdmin.

**Importanza:** Importante

```
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
```





```

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		
/nvmmem:	FAT32	FAT32	2.8G	Mounted	0032789		
/nvmmem2:	FAT32	FAT32	0.9G	Mounted	0032789		
/disk2:	FAT32	(?)		Not Present			
/lcdisk0:	FAT32	(?)		Not Present			
/lcdisk0a:	FAT32	(?)					

Output Truncated to size 1023

## mostra memoria

Per ulteriori informazioni, consultare la sezione [show memory](#) della guida di riferimento dei comandi di System Management per il router Cisco NCS serie 6000, versione 5.0.x.

**Riepilogo:** Le opzioni possono essere modificate insieme all'output della CLI.

**Dettagli:** NCS 6008 ha apportato notevoli modifiche all'architettura della memoria. Di conseguenza, sono presenti molte modifiche all'output CLI del comando **show memory**. Le modifiche apportate all'opzione del comando CLI sono minime.

**Importanza:** Minor (Minore)

```
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
```

## mostra processi

Per ulteriori informazioni, consultare la sezione [show processes](#) della guida di riferimento dei comandi di **System Management per Cisco NCS 6000 Router, versione 5.0.x**.

**Riepilogo:** Per alcune opzioni sono state apportate modifiche secondarie alle opzioni supportate e all'output.

**Dettagli:** La parola chiave **show pidin** non è più supportata.

**Importanza:** Minor (Minore)

```
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

Per ulteriori informazioni, consultare la sezione [show platform](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Sono disponibili opzioni aggiuntive per le parole chiave e modifiche all'output.

**Dettagli:** Il comando **show platform** può essere eseguito dalla macchina virtuale XR o SysAdmin.

**VM XR:** È stato aggiunto il supporto per la parola chiave **vm**.

Su NCS 6000, il comando visualizza le informazioni relative a struttura, ventola e modulo di alimentazione dalla VM XR, mentre non lo visualizza in XR classico. Per ottenere informazioni su questi tipi di componenti in XR classico, è necessario eseguire il comando dalla modalità amministratore.

**VM SysAdmin:** La parola chiave **detail** è stata aggiunta per fornire ulteriori informazioni sullo stato e sulle informazioni di avvio di un nodo del sistema. Viene aggiunto il supporto per la parola chiave **slices**.

**Importanza:** Importante

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          1OC768-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>

```

## mostra riavvio

**Riepilogo:** A causa della separazione tra la VM XR e la VM SysAdmin, il comando **show reboot** è stato modificato in NG-XR.

**Dettagli:** Nella VM XR è possibile visualizzare la cronologia di riavvio della VM XR per ogni scheda di linea attiva/RP.

Nella VM SysAdmin è possibile visualizzare la cronologia di riavvio della VM SysAdmin per ogni scheda di linea attiva/RP, insieme alla cronologia di riavvio della scheda di linea/RP (si ricordi che la VM SysAdmin può essere riavviata senza ricaricare la scheda di linea effettiva).

**Importanza:** Minor (Minore)

```

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

**Riepilogo:** Si tratta di un comando appena aggiunto in XR + Sysadmin VM.

**Dettagli:** Questo ha un nuovo comportamento operativo.

**Importanza:** Importante

## show tech-support

**Riepilogo:** Sono presenti modifiche all'output con modifiche alle opzioni della parola chiave del comando

**Dettagli:** Il supporto per queste parole chiave **show tech-support** viene rimosso da NCS 6000:

- aipcproxy
- bancomat
- call-home
- chdlc
- config-group
- controller
- crypto
- fabio
- frame relay
- ipinfra
- signore
- onep
- piattaforma
- costola
- svd
- sysmgr
- tunnel-ip

Il supporto per la modalità di amministrazione **show tech-support** è stato rimosso da NCS 6000:

- basico
- pacchetti
- cfgmgr
- control-ethernet
- diagnostica
- dsc
- Seee
- controllo dello stato
- invmgr
- issu
- licenza
- signore
- nrs
- pcie
- shelfmgr
- sysdb
- sysmgr

Il supporto per queste parole chiave **show tech-support** è disponibile su NCS 6008, ma non sul CRS:

- **fabric** - In XR VM su NCS 6008
- **installazione** - In XR VM su NCS 6008
- **lwm** - In XR VM su NCS 6008
- **npu** - In XR VM su NCS 6008
- **processmgr** - In XR VM su NCS 6008
- **rdm** - In XR VM su NCS 6008
- **sdr-invmgr** - In VM XR su NCS 6008

Il supporto per queste VM SysAdmin **show tech-support** parole chiave è disponibile su NCS 6000, ma non su CRS:

- **gestione\_avvisi**
- **tutto**
- **ccc**
- **confd**
- **envmon**
- **fpd**
- **obfl**
- **pm**
- **sdr\_mgr**
- **scaffale**
- **gestione\_porzioni**
- **syslog**

**Importanza: Minor (Minore)**

```
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

Per ulteriori informazioni, consultare la sezione [show version](#) della guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000.

**Riepilogo:** Ci sono importanti cambiamenti nell'output.

**Dettagli:** L'output è notevolmente semplificato su NCS 6008, a causa della diversa struttura del sistema operativo.

**Importanza:** Minor (Minore)

```
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#

## inizio

Per ulteriori informazioni, consultare la [sezione superiore](#) della **guida di riferimento dei comandi di amministrazione del sistema per i router Cisco NCS serie 6000**.

**Riepilogo:** Le opzioni e gli output delle parole chiave sono stati modificati. Il comando è disponibile sia nella VM SysAdmin che nella VM XR.

**Dettagli:** la posizione della parola chiave per il **dump** viene spostata nella CLI. Sulla NCS 6000, la parte superiore può essere specificata con la posizione della scheda di linea mentre è su CRS. Non funziona per la posizione della linecard.

**Importanza:** Minor (Minore)

```
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+
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 khelper	20	0	0	0	0 S	0.0	0.0	0:00.00
9 root netns	20	0	0	0	0 S	0.0	0.0	0:00.00
10 root async/mgr	20	0	0	0	0 S	0.0	0.0	0:00.00
11 root pm	20	0	0	0	0 S	0.0	0.0	0:00.00
12 root sync_supers	20	0	0	0	0 S	0.0	0.0	0:00.06
13 root default	20	0	0	0	0 S	0.0	0.0	0:00.08 bdi-
14 root kintegrityd/0	20	0	0	0	0 S	0.0	0.0	0:00.00
15 root kblockd/0	20	0	0	0	0 S	0.0	0.0	0:00.20
16 root kacpid	20	0	0	0	0 S	0.0	0.0	0:00.00
17 root kacpi_notify	20	0	0	0	0 S	0.0	0.0	0:00.00
18 root kacpi_hotplug	20	0	0	0	0 S	0.0	0.0	0:00.00
19 root ata/0	20	0	0	0	0 S	0.0	0.0	0:00.00
20 root ata_aux	20	0	0	0	0 S	0.0	0.0	0:00.00
21 root khubd	20	0	0	0	0 S	0.0	0.0	0:00.00
22 root kseriod	20	0	0	0	0 S	0.0	0.0	0:00.00
24 root kslowd000	15	-5	0	0	0 S	0.0	0.0	0:00.00
25 root kslowd001	15	-5	0	0	0 S	0.0	0.0	0:00.00
26 root khungtaskd	20	0	0	0	0 S	0.0	0.0	0:00.01
27 root kswapd0	20	0	0	0	0 S	0.0	0.0	0:00.00
28 root ksmd	25	5	0	0	0 S	0.0	0.0	0:00.00
29 root aio/0	20	0	0	0	0 S	0.0	0.0	0:00.00









529	root	20	0	0	0	0	S	0.0	0.0	0:00.00	
scsi_eh_0											
530	root	20	0	0	0	0	S	0.0	0.0	0:00.00	
scsi_eh_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	
udevd											
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	
kjournald											
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 xinetd	20	0	11120	836	676	S	0.0	0.1	0:00.00	
1583 root crond	20	0	7012	1096	572	S	0.0	0.1	0:00.35	
1595 root libvirtd	20	0	148m	4268	2928	S	0.0	0.4	0:00.13	
1664 root agetty	20	0	3992	392	312	S	0.0	0.0	0:00.00	
1690 root agetty	20	0	3992	388	312	S	0.0	0.0	0:00.00	
1692 root agetty	20	0	3992	392	312	S	0.0	0.0	0:00.00	
1715 root udev	18	-2	4572	1064	400	S	0.0	0.1	0:00.00	
1716 root udev	18	-2	4572	976	312	S	0.0	0.1	0:00.00	
1724 root 8	20	0	0	0	0	S	0.0	0.0	0:00.00	jbd2/vdb1-
1725 root unwrit	20	0	0	0	0	S	0.0	0.0	0:00.00	ext4-dio-
1727 root pm	20	0	144m	11m	3860	S	0.0	1.2	0:04.96	
1732 root bios_fpd	20	0	201m	7916	4004	S	0.0	0.8	0:00.65	
1733 root calv_alarm_mgr	20	0	110m	4776	2792	S	0.0	0.5	0:00.14	
1734 root ccc_driver	20	0	424m	19m	5652	S	0.0	1.9	8:20.74	
1735 root cm	20	0	172m	16m	3188	S	0.0	1.7	0:04.05	
1736 root debug_client	20	0	83668	2916	1864	S	0.0	0.3	0:00.67	
1737 root ds	20	0	120m	9472	2200	S	0.0	0.9	0:00.71	
1738 root dumper	20	0	106m	3068	1920	S	0.0	0.3	0:00.64	
1739 root envmon	20	0	266m	11m	5088	S	0.0	1.2	0:06.72	
1740 root esd	20	0	429m	16m	6060	S	0.0	1.7	0:28.45	
1741 root inst_agent	20	0	197m	8192	4900	S	0.0	0.8	0:02.28	

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
```

## Guide di riferimento ai comandi dei router Cisco NCS serie 6000

- [Guida di riferimento ai comandi di System Administration per Cisco NCS serie 6000 Router](#)
- [Guida di riferimento ai comandi di System Management per Cisco NCS serie 6000 Router, versione 5.0.x](#)