



Watchdog Commands

This module describes commands used to monitor the memory states and thresholds of routers running Cisco IOS XR software.

To use commands of this module, you must be in a user group associated with a task group that includes appropriate task IDs. If the user group assignment is preventing you from using any command, contact your AAA administrator for assistance.

- [show critmon context, on page 2](#)
- [show critmon deadline, on page 6](#)
- [show critmon statistics, on page 8](#)
- [show critmon trace all, on page 16](#)
- [show critmon trace error, on page 18](#)
- [show critmon trace info, on page 20](#)
- [show critmon trace lib-error, on page 22](#)
- [show critmon trace lib-info, on page 24](#)
- [show reboot first, on page 26](#)
- [show reboot graceful, on page 29](#)
- [show reboot history, on page 30](#)
- [show reboot last, on page 32](#)
- [show reboot pcds, on page 35](#)
- [show watchdog, on page 38](#)

show critmon context

To display information about the context for the wd-critical-mon process, use the **show critmon context** command in EXEC mode.

show critmon context {**all** | **deadline** [**client** *client-name*] | **ticker** | **watcher**} **location** {*node-id* | **all**}

Syntax Description		
all		Displays all context information for the wd-critical-mon process.
deadline		Displays the context information for the deadline monitoring client application.
client	(Optional)	Displays information only for the specified client.
<i>client-name</i>		Name of the client.
ticker		Displays information for the ticker context for the wd-critical-mon process.
watcher		Displays information for the watcher context for the wd-critical-mon process.
location		Specifies a node to filter.
<i>node-id</i>		Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
all		Specifies all locations.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines Use the **show critmon context** command to display information about the context for the wd-critical-mon process.

Task ID	Task ID	Operations
	cisco-support	read

Examples

The following sample output is from the **show critmon context** command:

```
RP/0/RP0/CPU0:router# show critmon context all location all
```

```
-----
Ticker context info (Node: 0/5/CPU0)
-----
```

```
CPU#           : 0
Ticker counter  : 2245
Ticker last ran timestamp : 02/10/2008 01:11:10
```

Watcher context info (Node: 0/5/CPU0)

Watcher counter : 751
Watcher last ran : 02/10/2008 01:11:10

Deadline monitoring context info (Node: 0/5/CPU0)

Client : wdsysmon
PunchTimestamp : 02/10/2008 01:11:09
PunchCounter : 226

Ticker context info (Node: 0/4/CPU0)

CPU# : 0
Ticker counter : 74
Ticker last ran timestamp : 02/10/2008 01:11:10

Watcher context info (Node: 0/4/CPU0)

Watcher counter : 24
Watcher last ran : 02/10/2008 01:11:09

Deadline monitoring context info (Node: 0/4/CPU0)

Client : wdsysmon
PunchTimestamp : 02/10/2008 01:11:10
PunchCounter : 8

Ticker context info (Node: 0/2/CPU0)

CPU# : 0
Ticker counter : 61
Ticker last ran timestamp : 02/10/2008 01:11:10

Watcher context info (Node: 0/2/CPU0)

Watcher counter : 21
Watcher last ran : 02/10/2008 01:11:10

Deadline monitoring context info (Node: 0/2/CPU0)

Client : wdsysmon

show critmon context

```
PunchTimestamp : 02/10/2008 01:11:09
PunchCounter   : 6
```

```
-----
Ticker context info (Node: 0/1/CPU0)
-----
```

```
CPU#           : 0
Ticker counter  : 2093
Ticker last ran timestamp : 02/10/2008 01:11:10
```

```
-----
Watcher context info (Node: 0/1/CPU0)
-----
```

```
Watcher counter : 703
Watcher last ran : 02/10/2008 01:11:10
```

```
-----
Deadline monitoring context info (Node: 0/1/CPU0)
-----
```

```
Client          : wdsysmon
PunchTimestamp  : 02/10/2008 01:11:09
PunchCounter    : 211
```

This table describes the significant fields shown in the display.

Table 1: show critmon context Field Descriptions

Field	Description
Ticker context info	wd-critical-mon process ticker context information for the node.
CPU	CPU number.
Ticker counter	Current counter for the wd-critical-mon ticker thread. The ticker counter field specifies the number of times the ticker thread was run.
Ticker last ran timestamp	Timestamp for the last time the wd-critical-mon ticker thread was run.
Watcher context info	wd-critical-mon watcher thread context information that is used for the node.
Watcher counter	Current counter for the wd-critical-mon watcher thread. The watcher counter field specifies the number of times the watcher thread was run.
Watcher last ran	Timestamp that is used for the last run of the wd-critical-mon watcher thread.
Deadline monitoring context info	wd-critical-mon deadline monitoring information that is used for the node.
Client	Client name for deadline monitoring.
PunchTimestamp	Timestamp that is used for the last run of the client application.

Field	Description
PunchCounter	Current counter for the deadline monitoring client. This field specifies the number of times that the client application can punch the counter.

Related Commands

Command	Description
show critmon deadline, on page 6	Displays information about deadline monitoring.
show critmon statistics, on page 8	Displays information about the critical monitor statistics.
show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon deadline

To display information about deadline monitoring, use the **show critmon deadline** command in EXEC mode.

show critmon deadline registration [**client** *client-name*] **location** {*node-id* | **all**}

Syntax Description

registration	Displays the deadline monitoring registration information.
client	(Optional) Displays information only for the specified client.
<i>client-name</i>	Name of the client.
location	Specifies a node to filter.
<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
all	Specifies all locations.

Command Default

No default behavior or values

Command Modes

EXEC mode

Command History

Release	Modification
Release 3.6.0	This command was introduced.

Usage Guidelines

Use the **show critmon deadline** command to display information about the deadline monitoring.

Task ID

Task ID	Operations
cisco-support	read

Examples

The following sample output is from the **show critmon deadline** command:

```
RP/0/RP0/CPU0:router# show critmon deadline registration location all
```

```
-----
Deadline monitoring registration info (Node: 0/5/CPU0)
-----
```

ID	ClientName	Activated	tick address	timeout vale(sec)
0	wdsysmon	Yes	0x6023d000	60

```
-----
Deadline monitoring registration info (Node: 0/4/CPU0)
-----
```

ID	ClientName	Activated	tick address	timeout vale(sec)
0	wdsysmon	Yes	0x38146000	60

```

-----
Deadline monitoring registration info (Node: 0/2/CPU0)
-----
ID ClientName          Activated  tick address  timeout vale(sec)
-----
0  wdsysmon            Yes        0x38146000   60
-----

-----
Deadline monitoring registration info (Node: 0/1/CPU0)
-----
ID ClientName          Activated  tick address  timeout vale(sec)
-----
0  wdsysmon            Yes        0x38101000   60
-----

```

This table describes the significant fields shown in the display.

Table 2: show critmon deadline Field Descriptions

Field	Description
Deadline monitoring registration info	Deadline monitoring registration information that is used for the node.
ID	Client ID that is internally managed by the wd-critical-mon process.
ClientName	Name of the client.
Activated	Field specifies that deadline monitoring is activated or not.
tick address	Tick memory address for the client application.
timeout vale(sec)	Deadline timeout value.

Related Commands

Command	Description
show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
show critmon statistics, on page 8	Displays information about the critical monitor statistics.
show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon statistics

To display information about the critical monitor statistics, use the **show critmon statistics** command in EXEC mode.

show critmon statistics {**all** | **congestion** | **deadline** **client** *client-name* | **ticker** | **watcher**} **last** *hours*
location {*node-id* | **all**}

Syntax Description

all	Displays all the information for the critical monitor.
congestion	Displays all the CPU congestion information for the critical monitor.
deadline	Displays all the statistics information for the deadline monitor.
client	Displays information only for the specified client.
<i>client-name</i>	Name of the client.
ticker	Displays the ticker statistics for the wd-critical-mon process.
watcher	Displays the watcher statistics for the wd-critical-mon process.
last	Displays only the last number of hours.
hours	Number of last hours. The range is from 1 to 24.
location	Specifies a node to filter.
<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
all	Specifies all locations.

Command Default

No default behavior or values

Command Modes

EXEC mode

Command History

Release	Modification
Release 3.6.0	This command was introduced
.	.

Usage Guidelines

Use the **show critmon statistics** command to display information about the critical monitor statistics.

Task ID

Task ID	Operations
cisco-support	read

Examples

The following sample output is from the **show critmon statistics** command:

RP/0/RP0/CPU0:router# show critmon statistics all last 5 location all

 Ticker statistics info (Node: 0/5/CPU0)

Period (min)	CPU#	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
15	cpu:0	10/22/2007 14:33:39	4478	298
15	cpu:0	10/22/2007 14:48:39	4477	298
15	cpu:0	10/22/2007 15:03:39	4478	298
15	cpu:0	10/22/2007 15:18:39	4477	298
15	cpu:0	10/22/2007 15:33:39	4478	298
15	cpu:0	10/22/2007 15:48:39	4478	298
15	cpu:0	10/22/2007 16:03:39	4477	298
15	cpu:0	10/22/2007 16:18:39	4478	298
15	cpu:0	10/22/2007 16:33:39	4477	298
15	cpu:0	10/22/2007 16:48:39	4478	298
15	cpu:0	10/22/2007 17:03:39	4477	298
15	cpu:0	10/22/2007 17:18:39	4478	298
15	cpu:0	10/22/2007 17:33:39	4477	298
15	cpu:0	10/22/2007 17:48:39	4478	298
15	cpu:0	10/22/2007 18:03:39	4477	298
15	cpu:0	10/22/2007 18:18:39	4478	298
15	cpu:0	10/22/2007 18:33:39	4478	298
15	cpu:0	10/22/2007 18:48:39	4477	298
15	cpu:0	10/22/2007 19:03:39	4477	298
15	cpu:0	10/22/2007 19:18:39	4478	298

 Watcher statistics info (Node: 0/5/CPU0)

Period (min)	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	watch count	Frequency (count/min)
15	10/22/2007 14:33:39	1498	99
15	10/22/2007 14:48:39	1497	99
15	10/22/2007 15:03:39	1498	99
15	10/22/2007 15:18:39	1497	99
15	10/22/2007 15:33:39	1498	99
15	10/22/2007 15:48:39	1497	99
15	10/22/2007 16:03:39	1498	99
15	10/22/2007 16:18:39	1497	99
15	10/22/2007 16:33:39	1498	99
15	10/22/2007 16:48:39	1497	99
15	10/22/2007 17:03:39	1498	99
15	10/22/2007 17:18:39	1497	99
15	10/22/2007 17:33:39	1498	99
15	10/22/2007 17:48:39	1497	99
15	10/22/2007 18:03:39	1498	99
15	10/22/2007 18:18:39	1497	99
15	10/22/2007 18:33:39	1498	99
15	10/22/2007 18:48:39	1497	99
15	10/22/2007 19:03:39	1498	99
15	10/22/2007 19:18:39	1497	99

 CPU congestion history (Node: 0/5/CPU0)

No congestion history

```
-----
Deadline monitoring statistics info (Node: 0/5/CPU0)
-----
```

client (name)	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
wdsysmon	10/22/2007 14:33:39	450	30
wdsysmon	10/22/2007 14:48:39	450	30
wdsysmon	10/22/2007 15:03:39	450	30
wdsysmon	10/22/2007 15:18:39	449	29
wdsysmon	10/22/2007 15:33:39	450	30
wdsysmon	10/22/2007 15:48:39	450	30
wdsysmon	10/22/2007 16:03:39	450	30
wdsysmon	10/22/2007 16:18:39	449	29
wdsysmon	10/22/2007 16:33:39	450	30
wdsysmon	10/22/2007 16:48:39	450	30
wdsysmon	10/22/2007 17:03:39	450	30
wdsysmon	10/22/2007 17:18:39	450	30
wdsysmon	10/22/2007 17:33:39	449	29
wdsysmon	10/22/2007 17:48:39	450	30
wdsysmon	10/22/2007 18:03:39	450	30
wdsysmon	10/22/2007 18:18:39	450	30
wdsysmon	10/22/2007 18:33:39	449	29
wdsysmon	10/22/2007 18:48:39	450	30
wdsysmon	10/22/2007 19:03:39	450	30
wdsysmon	10/22/2007 19:18:39	450	30

```
-----
Ticker statistics info (Node: 0/4/CPU0)
-----
```

Period (min)	CPU#	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
15	cpu:0	10/22/2007 14:25:38	4454	296
15	cpu:0	10/22/2007 14:40:38	4455	297
15	cpu:0	10/22/2007 14:55:38	4454	296
15	cpu:0	10/22/2007 15:10:37	4455	297
15	cpu:0	10/22/2007 15:25:37	4454	296
15	cpu:0	10/22/2007 15:40:37	4455	297
15	cpu:0	10/22/2007 15:55:37	4454	296
15	cpu:0	10/22/2007 16:10:37	4455	297
15	cpu:0	10/22/2007 16:25:37	4455	297
15	cpu:0	10/22/2007 16:40:37	4454	296
15	cpu:0	10/22/2007 16:55:37	4455	297
15	cpu:0	10/22/2007 17:10:37	4455	297
15	cpu:0	10/22/2007 17:25:37	4455	297
15	cpu:0	10/22/2007 17:40:37	4454	296
15	cpu:0	10/22/2007 17:55:37	4455	297
15	cpu:0	10/22/2007 18:10:37	4454	296
15	cpu:0	10/22/2007 18:25:37	4454	296
15	cpu:0	10/22/2007 18:40:37	4455	297
15	cpu:0	10/22/2007 18:55:36	4455	297
15	cpu:0	10/22/2007 19:10:36	4455	297

```
-----
Watcher statistics info (Node: 0/4/CPU0)
-----
```

Period (min)	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	watch count	Frequency (count/min)
-----------------	--	-------------	--------------------------

```

15      10/22/2007 14:25:38 1496      99
15      10/22/2007 14:40:38 1495      99
15      10/22/2007 14:55:38 1495      99
15      10/22/2007 15:10:37 1495      99
15      10/22/2007 15:25:37 1495      99
15      10/22/2007 15:40:37 1495      99
15      10/22/2007 15:55:37 1495      99
15      10/22/2007 16:10:37 1495      99
15      10/22/2007 16:25:37 1495      99
15      10/22/2007 16:40:37 1495      99
15      10/22/2007 16:55:37 1495      99
15      10/22/2007 17:10:37 1495      99
15      10/22/2007 17:25:37 1495      99
15      10/22/2007 17:40:37 1495      99
15      10/22/2007 17:55:37 1495      99
15      10/22/2007 18:10:37 1495      99
15      10/22/2007 18:25:37 1495      99
15      10/22/2007 18:40:37 1495      99
15      10/22/2007 18:55:36 1495      99
15      10/22/2007 19:10:36 1495      99

```

```
-----
CPU congestion history (Node: 0/4/CPU0)
-----
```

```
No congestion history
```

```
-----
Deadline monitoring statistics info (Node: 0/4/CPU0)
-----
```

client (name)	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
wdsysmon	10/22/2007 14:25:38	449	29
wdsysmon	10/22/2007 14:40:38	450	30
wdsysmon	10/22/2007 14:55:38	449	29
wdsysmon	10/22/2007 15:10:37	450	30
wdsysmon	10/22/2007 15:25:37	449	29
wdsysmon	10/22/2007 15:40:37	450	30
wdsysmon	10/22/2007 15:55:37	449	29
wdsysmon	10/22/2007 16:10:37	450	30
wdsysmon	10/22/2007 16:25:37	449	29
wdsysmon	10/22/2007 16:40:37	450	30
wdsysmon	10/22/2007 16:55:37	449	29
wdsysmon	10/22/2007 17:10:37	450	30
wdsysmon	10/22/2007 17:25:37	449	29
wdsysmon	10/22/2007 17:40:37	450	30
wdsysmon	10/22/2007 17:55:37	449	29
wdsysmon	10/22/2007 18:10:37	450	30
wdsysmon	10/22/2007 18:25:37	449	29
wdsysmon	10/22/2007 18:40:37	450	30
wdsysmon	10/22/2007 18:55:36	449	29
wdsysmon	10/22/2007 19:10:36	450	30

```
-----
Ticker statistics info (Node: 0/2/CPU0)
-----
```

Period (min)	CPU#	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
15	cpu:0	10/22/2007 14:25:41	4454	296

show critmon statistics

```

15    cpu:0  10/22/2007 14:40:41  4455      297
15    cpu:0  10/22/2007 14:55:41  4454      296
15    cpu:0  10/22/2007 15:10:41  4455      297
15    cpu:0  10/22/2007 15:25:41  4455      297
15    cpu:0  10/22/2007 15:40:41  4454      296
15    cpu:0  10/22/2007 15:55:41  4455      297
15    cpu:0  10/22/2007 16:10:41  4454      296
15    cpu:0  10/22/2007 16:25:41  4455      297
15    cpu:0  10/22/2007 16:40:41  4454      296
15    cpu:0  10/22/2007 16:55:40  4455      297
15    cpu:0  10/22/2007 17:10:40  4455      297
15    cpu:0  10/22/2007 17:25:40  4455      297
15    cpu:0  10/22/2007 17:40:40  4454      296
15    cpu:0  10/22/2007 17:55:40  4455      297
15    cpu:0  10/22/2007 18:10:40  4454      296
15    cpu:0  10/22/2007 18:25:40  4455      297
15    cpu:0  10/22/2007 18:40:40  4454      296
15    cpu:0  10/22/2007 18:55:40  4455      297
15    cpu:0  10/22/2007 19:10:40  4455      297

```

Watcher statistics info (Node: 0/2/CPU0)

Period (min)	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	watch count	Frequency (count/min)
15	10/22/2007 14:25:41	1495	99
15	10/22/2007 14:40:41	1495	99
15	10/22/2007 14:55:41	1495	99
15	10/22/2007 15:10:41	1495	99
15	10/22/2007 15:25:41	1495	99
15	10/22/2007 15:40:41	1495	99
15	10/22/2007 15:55:41	1495	99
15	10/22/2007 16:10:41	1495	99
15	10/22/2007 16:25:41	1495	99
15	10/22/2007 16:40:41	1496	99
15	10/22/2007 16:55:40	1495	99
15	10/22/2007 17:10:40	1495	99
15	10/22/2007 17:25:40	1495	99
15	10/22/2007 17:40:40	1495	99
15	10/22/2007 17:55:40	1495	99
15	10/22/2007 18:10:40	1495	99
15	10/22/2007 18:25:40	1495	99
15	10/22/2007 18:40:40	1495	99
15	10/22/2007 18:55:40	1495	99
15	10/22/2007 19:10:40	1495	99

CPU congestion history (Node: 0/2/CPU0)

No congestion history

Deadline monitoring statistics info (Node: 0/2/CPU0)

client (name)	SnapshotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
wdsysmon	10/22/2007 14:25:41	449	29
wdsysmon	10/22/2007 14:40:41	450	30

```

wdsysmon          10/22/2007 14:55:41  449      29
wdsysmon          10/22/2007 15:10:41  450      30
wdsysmon          10/22/2007 15:25:41  449      29
wdsysmon          10/22/2007 15:40:41  450      30
wdsysmon          10/22/2007 15:55:41  449      29
wdsysmon          10/22/2007 16:10:41  450      30
wdsysmon          10/22/2007 16:25:41  449      29
wdsysmon          10/22/2007 16:40:41  450      30
wdsysmon          10/22/2007 16:55:40  449      29
wdsysmon          10/22/2007 17:10:40  450      30
wdsysmon          10/22/2007 17:25:40  449      29
wdsysmon          10/22/2007 17:40:40  450      30
wdsysmon          10/22/2007 17:55:40  449      29
wdsysmon          10/22/2007 18:10:40  450      30
wdsysmon          10/22/2007 18:25:40  449      29
wdsysmon          10/22/2007 18:40:40  450      30
wdsysmon          10/22/2007 18:55:40  449      29
wdsysmon          10/22/2007 19:10:40  450      30

```

Ticker statistics info (Node: 0/1/CPU0)

Period (min)	CPU#	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
15	cpu:0	10/22/2007 14:33:53	4456	297
15	cpu:0	10/22/2007 14:48:53	4455	297
15	cpu:0	10/22/2007 15:03:53	4456	297
15	cpu:0	10/22/2007 15:18:53	4455	297
15	cpu:0	10/22/2007 15:33:53	4455	297
15	cpu:0	10/22/2007 15:48:53	4456	297
15	cpu:0	10/22/2007 16:03:53	4455	297
15	cpu:0	10/22/2007 16:18:52	4456	297
15	cpu:0	10/22/2007 16:33:52	4455	297
15	cpu:0	10/22/2007 16:48:52	4456	297
15	cpu:0	10/22/2007 17:03:52	4455	297
15	cpu:0	10/22/2007 17:18:52	4456	297
15	cpu:0	10/22/2007 17:33:52	4455	297
15	cpu:0	10/22/2007 17:48:52	4455	297
15	cpu:0	10/22/2007 18:03:52	4456	297
15	cpu:0	10/22/2007 18:18:52	4455	297
15	cpu:0	10/22/2007 18:33:52	4456	297
15	cpu:0	10/22/2007 18:48:52	4455	297
15	cpu:0	10/22/2007 19:03:52	4456	297
15	cpu:0	10/22/2007 19:18:52	4455	297

Watcher statistics info (Node: 0/1/CPU0)

Period (min)	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	watch count	Frequency (count/min)
15	10/22/2007 14:33:53	1495	99
15	10/22/2007 14:48:53	1495	99
15	10/22/2007 15:03:53	1495	99
15	10/22/2007 15:18:53	1495	99
15	10/22/2007 15:33:53	1495	99
15	10/22/2007 15:48:53	1495	99
15	10/22/2007 16:03:53	1495	99
15	10/22/2007 16:18:52	1495	99
15	10/22/2007 16:33:52	1496	99
15	10/22/2007 16:48:52	1495	99

```

15    10/22/2007 17:03:52 1495    99
15    10/22/2007 17:18:52 1495    99
15    10/22/2007 17:33:52 1495    99
15    10/22/2007 17:48:52 1495    99
15    10/22/2007 18:03:52 1495    99
15    10/22/2007 18:18:52 1495    99
15    10/22/2007 18:33:52 1495    99
15    10/22/2007 18:48:52 1495    99
15    10/22/2007 19:03:52 1495    99
15    10/22/2007 19:18:52 1495    99

```

```

-----
CPU congestion history (Node: 0/1/CPU0)
-----

```

```

No congestion history

```

```

-----
Deadline monitoring statistics info (Node: 0/1/CPU0)
-----

```

client (name)	SnapShotTimestamp MM/DD/YYYY hh:mm:ss	tick count	Frequency (count/min)
wdsysmon	10/22/2007 14:33:53	449	29
wdsysmon	10/22/2007 14:48:53	450	30
wdsysmon	10/22/2007 15:03:53	449	29
wdsysmon	10/22/2007 15:18:53	450	30
wdsysmon	10/22/2007 15:33:53	449	29
wdsysmon	10/22/2007 15:48:53	450	30
wdsysmon	10/22/2007 16:03:53	450	30
wdsysmon	10/22/2007 16:18:52	449	29
wdsysmon	10/22/2007 16:33:52	450	30
wdsysmon	10/22/2007 16:48:52	449	29
wdsysmon	10/22/2007 17:03:52	450	30
wdsysmon	10/22/2007 17:18:52	449	29
wdsysmon	10/22/2007 17:33:52	450	30
wdsysmon	10/22/2007 17:48:52	449	29
wdsysmon	10/22/2007 18:03:52	450	30
wdsysmon	10/22/2007 18:18:52	450	30
wdsysmon	10/22/2007 18:33:52	449	29
wdsysmon	10/22/2007 18:48:52	450	30
wdsysmon	10/22/2007 19:03:52	449	29
wdsysmon	10/22/2007 19:18:52	450	30

This table describes the significant fields shown in the display.

Table 3: show critmon statistics Field Descriptions

Field	Description
Ticker statistics info	Ticker thread statistics information that is used for the node.
Period	Statistics sampling period.
CPU	CPU number.
SnapShotTimestamp	Timestamp that the statistics is saved.
tick count	Ticker counter for the sampling period

Field	Description
Frequency	Frequency for ticker or watcher punch count.
Watcher statistics info	Watcher thread statistics information that is used for the node.
watch count	Watcher count that is used for the sampling period.
CPU congestion history	History of CPU congestion.
Deadline monitoring statistics info	Deadline monitoring statistics information that is used for the node.
client	Name of deadline monitoring client.

Related Commands

Command	Description
show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
show critmon deadline, on page 6	Displays information about deadline monitoring.
show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon trace all

To display information about all traces for a critical monitor, use the **show critmon trace all** command in EXEC mode.

```
show critmon trace all [file filename original] [hexdump] [last entries] [reverse] [stats] [tailf]
[unique] [verbose] [wrapping] [location {node-id | all}]
```

Syntax Description		
file		(Optional) Displays a specific file.
<i>filename</i>		Name of a specific file.
original		Specifies the original location of the file.
hexdump		(Optional) Displays traces in hexadecimal format.
last		(Optional) Displays trace information for a specific number of entries
<i>entries</i>		Number of entries. Replace entries with the number of entries you want to display. For example, if you enter 5, the display shows the last 5 entries in the trace data. The range is from 1 to 4294967295.
reverse		(Optional) Displays the latest traces first.
stats		(Optional) Displays the statistics in the command output.
tailf		(Optional) Displays the new traces as they are added in the command output.
unique		(Optional) Displays the unique entries with counts in the command output.
verbose		(Optional) Displays the information for internal debugging in the command output.
wrapping		(Optional) Displays the wrapping entries in the command output.
location		(Optional) Specifies a node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
<i>node-id</i>		
all		Specifies all locations.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	cisco-support	read

Examples

The following sample output is from the **show critmon trace all** command:

```
RP/0/RP0/CPU0:router# show critmon trace all hexdump
1 wrapping entries (768 possible, 0 filtered, 1 total)
Oct 11 03:18:11.584 wd-critical-mon/lib/info 0/5/CPU0 t10 tp0x00000302000000a0
Oct 11 03:18:11.584 wd-critical-mon/lib/info 0/5/CPU0 t10 critmon_deadline_regin
```

Related Commands	Command	Description
	show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
	show critmon deadline, on page 6	Displays information about deadline monitoring.
	show critmon statistics, on page 8	Displays information about the critical monitor statistics.
	show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
	show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
	show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
	show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon trace error

To display information about error traces for a critical monitor, use the **show critmon trace error** command in EXEC mode.

show critmon trace error [**file** *filename* **original**] [**hexdump**] [**last** *entries*] [**reverse**] [**stats**] [**tailf**] [**unique**] [**verbose**] [**wrapping**] [**location** {*node-id* | **all**}]

Syntax Description

file	(Optional) Displays a specific file.
<i>filename</i>	Name of a specific file.
original	Specifies the original location of the file.
hexdump	(Optional) Displays traces in hexadecimal format.
last	(Optional) Displays the last numbered entries.
<i>entries</i>	Number of entries. The range is from 1 to 4294967295.
reverse	(Optional) Displays the latest traces first.
stats	(Optional) Displays the statistics.
tailf	(Optional) Displays the new traces as they are added.
unique	(Optional) Displays the unique entries with counts.
verbose	(Optional) Displays the information for internal debugging.
wrapping	(Optional) Displays the wrapping entries in the command output.
location	(Optional) Specifies a node.
<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
all	Specifies all locations.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	cisco-support	read

Examples

The following example shows how to use the **show critmon trace error** command:

```
RP/0/RP0/CPU0:router# show critmon trace error
```

Related Commands	Command	Description
	show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
	show critmon deadline, on page 6	Displays information about deadline monitoring.
	show critmon statistics, on page 8	Displays information about the critical monitor statistics.
	show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
	show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
	show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
	show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon trace info

To display trace data for an information type for the critical monitor, use the **show critmon trace info** command in EXEC mode.

show critmon trace info [**file** *filename* **original**] [**hexdump**] [**last** *entries*] [**reverse**] [**stats**] [**tailf**] [**unique**] [**verbose**] [**wrapping**] [**location** {*node-id* | **all**}]

Syntax Description	
file	(Optional) Displays a specific file.
<i>filename</i>	Name of a specific file.
original	Specifies the original location of the file.
hexdump	(Optional) Displays traces in hexadecimal format.
last	(Optional) Displays the last numbered entries.
<i>entries</i>	Number of entries. The range is from 1 to 4294967295.
reverse	(Optional) Displays the latest traces first.
stats	(Optional) Displays the statistics.
tailf	(Optional) Displays the new traces as they are added.
unique	(Optional) Displays the unique entries with counts.
verbose	(Optional) Displays the information for internal debugging.
wrapping	(Optional) Displays the wrapping entries in the command output.
location <i>node-id</i>	(Optional) Specifies a node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
location all	Specifies all locations.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	cisco-support	read

Examples

The following shows how to use the **show critmon trace info** command:

```
RP/0/RP0/CPU0:router# show critmon trace info
```

Related Commands	Command	Description
	show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
	show critmon deadline, on page 6	Displays information about deadline monitoring.
	show critmon statistics, on page 8	Displays information about the critical monitor statistics.
	show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
	show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
	show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.
	show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon trace lib-error

To display information about the trace data for the library error for the critical monitor, use the **show critmon trace lib-error** command in EXEC mode.

```
show critmon trace lib-error [file filename original] [hexdump] [last entries] [reverse] [stats]
[taill] [unique] [verbose] [wrapping] [location {node-id | all}]
```

Syntax Description	file	(Optional) Displays a specific file.
	<i>filename</i>	Name of a specific file.
	original	Specifies the original location of the file.
	hexdump	(Optional) Displays traces in hexadecimal format.
	last	(Optional) Displays the last numbered entries.
	<i>entries</i>	Number of entries. The range is from 1 to 4294967295.
	reverse	(Optional) Displays the latest traces first.
	stats	(Optional) Displays the statistics.
	taill	(Optional) Displays the new traces as they are added.
	unique	(Optional) Displays the unique entries with counts.
	verbose	(Optional) Displays the information for internal debugging.
	wrapping	(Optional) Displays the wrapping entries in the command output.
	location <i>node-id</i>	(Optional) Specifies a node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
	location all	Specifies all locations.

Command Default No default behavior or values

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	cisco-support	read

Examples

The following shows how to use the **show critmon trace lib-error** command:

```
RP/0/RP0/CPU0:router# show critmon trace lib-error
```

Related Commands	Command	Description
	show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
	show critmon deadline, on page 6	Displays information about deadline monitoring.
	show critmon statistics, on page 8	Displays information about the critical monitor statistics.
	show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
	show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
	show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
	show critmon trace lib-info, on page 24	Displays trace data for the library information for the critical monitor.

show critmon trace lib-info

To display trace data for the library information for the critical monitor, use the **show critmon trace lib-info** command in EXEC mode.

```
show critmon trace lib-info [file filename original] [hexdump] [last entries] [reverse] [stats]
[taillf] [unique] [verbose] [wrapping] [location {node-id | all}]
```

Syntax Description		
file		(Optional) Displays a specific file.
<i>filename</i>		Name of a specific file.
original		Specifies the original location of the file.
hexdump		(Optional) Displays traces in hexadecimal format.
last		(Optional) Displays the last numbered entries.
<i>entries</i>		Number of entries. The range is from 1 to 4294967295.
reverse		(Optional) Displays the latest traces first.
stats		(Optional) Displays the statistics.
taillf		(Optional) Displays the new traces as they are added.
unique		(Optional) Displays the unique entries with counts.
verbose		(Optional) Displays the information for internal debugging.
wrapping		(Optional) Displays the wrapping entries in the command output.
location <i>node-id</i>		(Optional) Specifies a node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.
location all		(Optional) Specifies all locations.
Command Default	No default behavior or values	
Command Modes	EXEC mode	

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	cisco-support	read

Examples The following example shows how to use the **show critmon trace lib-info** command:

```
RP/0/RP0/CPU0:router# show critmon trace lib-info
```

Related Commands	Command	Description
	show critmon context, on page 2	Displays information about the context for the wd-critical-mon process.
	show critmon deadline, on page 6	Displays information about deadline monitoring.
	show critmon statistics, on page 8	Displays information about the critical monitor statistics.
	show critmon trace all, on page 16	Displays information about all traces for a critical monitor.
	show critmon trace error, on page 18	Displays information about error traces for a critical monitor.
	show critmon trace info, on page 20	Displays trace data for an information type for the critical monitor.
	show critmon trace lib-error, on page 22	Displays information about the trace data for the library error for the critical monitor.

show reboot first

To display reboot information for a node first, use the **show reboot first** command in EXEC mode.

show reboot first {**crashinfo** | **syslog** | **trace**} **location** *node-id*

Syntax Description	
crashinfo	Displays crash information.
syslog	Displays information for the system logs.
trace	Displays the log for the reboot trace.
location	Specifies a node.
<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task	Operations
	system	read

Examples The following example shows a sample output from the **show reboot first** command:

```
RP/0/RP0/CPU0:router# show reboot first syslog location 0/4/cpu0

Syslog Timestamp: Mon Jul 28 14:27:26 2008

DRP/0/4/CPU0:Jan  1 00:00:00.000 : wd-critical-mon[79]: HW Watchdog: disabled o.
DRP/0/4/CPU0:Jan  1 00:00:00.000 : wd-critical-mon[79]: HW Watchdog: registrati
DRP/0/4/CPU0:Jun 10 11:24:12.258 : init[65540]: %OS-INIT-7-MBI_STARTED : total
DRP/0/4/CPU0:Jun 10 11:24:28.088 : insthelper[59]: %INSTALL-INSTHELPER-7-START_
DRP/0/4/CPU0:Jun 10 11:24:38.547 : insthelper[59]: %INSTALL-INSTHELPER-7-PKG_DO
DRP/0/4/CPU0:Jun 10 11:25:40.345 : sysmgr[78]: %OS-SYSMGR-5-NOTICE : Card is CO
DRP/0/4/CPU0:Jun 10 11:25:41.449 : init[65540]: %OS-INIT-7-INSTALL_READY : tota
DRP/0/4/CPU0:Jun 10 11:25:42.360 : dsc[151]: Memory Sanity Check Enabled
DRP/0/4/CPU0:Jun 10 11:25:44.790 : reddrv[297]: %PLATFORM-REDDRV-5-GO_BID : Car
DRP/0/4/CPU0:Jun 10 11:25:44.628 : syslog_dev[76]: reddrv[297]:

DRP/0/4/CPU0:Jun 10 11:25:44.631 : syslog_dev[76]: reddrv[297]: reddrv: BID - D.

DRP/0/4/CPU0:Jun 10 11:25:49.100 : reddrv[297]: %PLATFORM-REDDRV-5-GO_ACTIVE :
DRP/0/4/CPU0:Jun 10 11:25:49.099 : syslog_dev[76]: reddrv[297]:
```

```

DRP/0/4/CPU0:Jun 10 11:25:49.099 : syslog_dev[76]: reddrv[297]: reddrv: ACTIVE e
DRP/0/4/CPU0:Jun 10 11:25:49.554 : syslog_dev[76]: reddrv[297]: reddrv: transitn
DRP/0/4/CPU0:Jun 10 11:25:49.555 : syslog_dev[76]: reddrv[297]: Reddrv: msg_sen0

DRP/0/4/CPU0:Jun 10 11:26:03.403 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:03.413 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:03.414 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:03.414 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:03.416 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:03.416 : gsp[178]: cci_pdma_queue_cltn_find: returnin
DRP/0/4/CPU0:Jun 10 11:26:11.438 : tty_session_startup[339]: %MGBL-TTY-7-SESSIO
DRP/0/4/CPU0:Jun 10 11:26:19.464 : ingressq_spiller[228]: cci_interrupt_source_
DRP/0/4/CPU0:Jun 10 11:27:34.271 : fab_svr[180]: cci_pdma_queue_cltn_find: retu
DRP/0/4/CPU0:Jun 10 11:27:34.273 : fab_svr[180]: cci_pdma_queue_cltn_find: retu
DRP/0/4/CPU0:Jun 10 11:27:34.273 : fab_svr[180]: cci_pdma_queue_cltn_find: retu
DRP/0/4/CPU0:Jun 10 11:27:42.764 : ntpd[207]: %ROUTING-NTPD-5-PEER_CLEAR : NTP
DRP/0/4/CPU0:Jun 10 11:28:09.784 : upgrade_daemon[344]: %PLATFORM-UPGRADE_FPD-4
DRP/0/4/CPU0:Jun 10 20:29:41.288 : cfgmgr-rp[131]: %MGBL-CONFIG-6-OIR_RESTORE :
DRP/0/4/CPU0:Jun 10 20:29:41.315 : ifmgr[186]: %PKT_INFRA-LINK-3-UPDOWN : Inter
DRP/0/4/CPU0:Jun 10 20:29:41.318 : ifmgr[186]: %PKT_INFRA-LINEPROTO-5-UPDOWN :
DRP/0/4/CPU0:Jun 10 20:29:41.322 : ifmgr[186]: %PKT_INFRA-LINK-3-UPDOWN : Inter
DRP/0/4/CPU0:Jun 10 20:29:41.346 : ifmgr[186]: %PKT_INFRA-LINEPROTO-5-UPDOWN :
DRP/0/4/CPU0:Jun 10 20:31:14.945 : ntpd[207]: %ROUTING-NTPD-5-PEER_CLEAR : NTP
DRP/0/4/CPU0:Jun 10 20:31:14.945 : ntpd[207]: %ROUTING-NTPD-5-SYNC_LOSS : Synch
DRP/0/4/CPU0:Jun 10 20:31:14.945 : ntpd[207]: %ROUTING-NTPD-5-SYNC_LOSS : Synch
DRP/0/4/CPU0:Jun 10 21:07:53.108 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:07:53.831 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:08:57.338 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:08:59.532 : ipsec_pp[370]: %SECURITY-IPP-3-ERR_GENERAL :
DRP/0/4/CPU0:Jun 10 21:09:02.595 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:10:05.382 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:10:05.617 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:11:13.092 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:11:13.264 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:12:13.803 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:12:14.087 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:12:59.508 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:13:01.213 : sbc[376]: %SERVICES-SBC_PROC-6-INFO : SBC_IN
DRP/0/4/CPU0:Jun 10 21:13:01.380 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:14:06.104 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:14:06.278 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:15:10.415 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:15:11.174 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:16:30.297 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATIO
DRP/0/4/CPU0:Jun 10 21:16:35.848 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :
DRP/0/4/CPU0:Jun 10 21:34:13.005 : sbc[376]: %SERVICES-SBCSVI_BILLING-5-PATHSTA
DRP/0/4/CPU0:Jun 10 21:34:13.091 : sbc[376]: %SERVICES-SBCSVI_BILLING-5-PATHSTA
DRP/0/4/CPU0:Jun 10 21:34:13.351 : squid_sbcmpf[379]: %SERVICES-SBC_MPF-6-INFO
DRP/0/4/CPU0:Jun 10 21:34:13.966 : sbcsvi_ea[377]: %SERVICES-SBCSVI_EA-3-LINK_F
DRP/0/4/CPU0:Jun 10 21:58:04.777 : syslog_dev[76]: debug_d[143]: sysdb_find fai'

DRP/0/4/CPU0:Jun 10 21:58:04.892 : sysmgr[78]: debug_d(1) (jid 143) (pid 86082)d
DRP/0/4/CPU0:Jun 10 21:58:05.537 : syslog_dev[76]: debug_d[143]: sysdb_find fai'

DRP/0/4/CPU0:Jun 10 21:58:05.646 : sysmgr[78]: debug_d(1) (jid 143) (pid 147522d

DRP/0/4/CPU0:Jun 13 16:40:50.173 : exec[65690]: %SECURITY-login-6-AUTHEN_SUCCES
DRP/0/4/CPU0:Jun 13 16:41:45.619 : syslog_dev[76]: debug_d[143]: sysdb_find fai'

DRP/0/4/CPU0:Jun 13 16:41:45.745 : sysmgr[78]: debug_d(1) (jid 143) (pid 151618d

```

show reboot first

```

DRP/0/4/CPU0:Jun 13 16:41:46.114 : syslog_dev[76]: debug_d[143]: sysdb_find fai'
DRP/0/4/CPU0:Jun 13 16:41:46.254 : sysmgr[78]: debug_d(1) (jid 143) (pid 458818d
DRP/0/4/CPU0:Jun 13 16:41:51.266 : devc-conaux[54]: %MGBL-RS232-6-DCD_LOST : Lo
DRP/0/4/CPU0:Jun 13 16:42:01.265 : devc-conaux[54]: %MGBL-RS232-6-DCD_DISCOVERE
DRP/0/4/CPU0:Jun 17 13:01:10.557 : pfilter_ma[200]: Entering : timer_msg_hdlr
DRP/0/4/CPU0:Jun 17 13:01:10.559 : pfilter_ma[200]: Entering : acl_es_get_log_i
DRP/0/4/CPU0:Jun 17 13:01:10.559 : pfilter_ma[200]: In acl_es_get_log_info coun0
DRP/0/4/CPU0:Jun 17 13:02:10.555 : pfilter_ma[200]: Entering : timer_msg_hdlr
DRP/0/4/CPU0:Jun 17 13:02:10.555 : pfilter_ma[200]: Entering : acl_es_get_log_i
DRP/0/4/CPU0:Jun 17 13:02:10.555 : pfilter_ma[200]: In acl_es_get_log_info coun0
DRP/0/4/CPU0:Jun 17 13:03:10.555 : pfilter_ma[200]: Entering : timer_msg_hdlr
DRP/0/4/CPU0:Jun 17 13:03:10.555 : pfilter_ma[200]: Entering : acl_es_get_log_i
DRP/0/4/CPU0:Jun 17 13:03:10.555 : pfilter_ma[200]: In acl_es_get_log_info coun0
DRP/0/4/CPU0:Jun 17 13:04:10.555 : pfilter_ma[200]: Entering : timer_msg_hdlr
DRP/0/4/CPU0:Jun 17 13:04:10.555 : pfilter_ma[200]: Entering : acl_es_get_log_i
DRP/0/4/CPU0:Jun 17 13:04:10.555 : pfilter_ma[200]: In acl_es_get_log_info coun0
DRP/0/4/CPU0:Jul 12 16:12:05.932 : ifmgr[186]: %PKT_INFRA-LINK-3-UPDOWN : Inter
DRP/0/4/CPU0:Jul 12 16:12:05.932 : ifmgr[186]: %PKT_INFRA-LINEPROTO-5-UPDOWN :
DRP/0/4/CPU0:Jul 12 16:12:07.703 : ifmgr[186]: %PKT_INFRA-LINK-3-UPDOWN : Inter
DRP/0/4/CPU0:Jul 12 16:12:07.708 : ifmgr[186]: %PKT_INFRA-LINEPROTO-5-UPDOWN :
DRP/0/4/CPU0:Jul 28 10:21:49.239 : sbc[376]: %SERVICES-SBC_PROC-6-INFO : SBC_IN
DRP/0/4/CPU0:Jul 28 10:21:56.836 : squid_sbcmpf[379]: zmpf_heartbeat_work: Peer
DRP/0/4/CPU0:Jul 28 14:22:26.643 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_NOTIFICATION
DRP/0/4/CPU0:Jul 28 14:22:31.778 : sysmgr[78]: %OS-SYSMGR-7-INSTALL_FINISHED :

```

Related Commands

Command	Description
show reboot graceful, on page 29	Displays reboot information for the last graceful reboot for a node.
show reboot history, on page 30	Displays reboot information for the last graceful reboot.
show reboot last, on page 32	Displays the latest crash information.
show reboot pcdds, on page 35	Displays Persistent Critical Data Store critical information for the last ungraceful reboot.

show reboot graceful

To display reboot information for the last graceful reboot for a node, use the **show reboot graceful** command in EXEC mode.

```
show reboot graceful location node-id
```

Syntax Description	location
	Specifies a node.
	<i>node-id</i> Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Modes	EXEC mode
---------------	-----------

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines	No specific guidelines impact the use of this command.
------------------	--

Task ID	Task ID	Operations
	system	read

Examples

The following sample output is from the **show reboot graceful** command:

```
RP/0/RP0/CPU0:router# show reboot graceful location 0/1/CPU0

Reboot Time   : Thu Oct 11 19:15:55 2007
Reboot Cause  : 0x4f
Reboot Reason: Cause: HBAgent reloading node on receiving reload notification 0
Trace log     :

[0x46ad85b7b5] Map ingressq PCI base address.ingressq_phy_base = 0xa0000000, in0
[0x46ad8af9ba] Perform Node isolation from Fabric. ingressq_phy_base = 0xa000008
[0x46ad8afe88] Complete Kernel dumper platform task without dumping. rc: 0
```

Related Commands	Command	Description
	show reboot first, on page 26	Displays reboot information for a node first.
	show reboot history, on page 30	Displays reboot information for the last graceful reboot.
	show reboot last, on page 32	Displays the latest crash information.
	show reboot pclds, on page 35	Displays Persistent Critical Data Store critical information for the last ungraceful reboot.

show reboot history

To display reboot information for the last graceful reboot, use the `show reboot history` command in EXEC mode.

show reboot history [*reverse*] **location** *node-id*

Syntax Description	reverse (Optional) Displays the reverse in chronological order.
	location Specifies a node.
	<i>node-id</i> Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines The reboot history shows all reboot causes that is stored for the previous node resets.

Task ID	Task ID	Operations
	system	read

Examples

The following sample output is from the `show reboot history` command:

```
RP/0/RP0/CPU0:router# show reboot history location 0/1/CPU0

No  Time                               Cause Code Reason
-----
01  Mon Jul 30 19:27:05 2007 0x2000004f Cause: MBI-HELLO reloading node on rec
    eiving reload notification
    Process: mbi-hello
    Traceback: fc15b1a0 fc15b290 482
    0020c fc1d5fb0 0 0
02  Thu Aug 16 16:32:35 2007 0x21000106 Cause: All fabric links down on Fabric
    q
    Process: fabricq_mgr
    Traceback: fc15b1a0 fc15b290 fc9
    9ded4 fc99ae00 fc99affc fc99affc
03  Thu Aug 16 17:05:20 2007 0x2000004f Cause: MBI-HELLO reloading node on rec
    eiving reload notification
    Process: mbi-hello
    Traceback: fc15b1a0 fc15b290 482
    0020c fc1d5fb0 0 0
04  Mon Sep 10 21:01:34 2007 0x21000106 Cause: All fabric links down on Fabric
    q
```

```

Process: fabricq_mgr

Traceback: fc15b1a0 fc15b290 fc9
a3f00 fc9a0e10 fc9a100c fc9a100c
05 Mon Sep 10 21:36:10 2007 0x2000004f Cause: MBI-HELLO reloading node on rec
eiving reload notification
Process: mbi-hello

Traceback: fc1601a0 fc160290 482
0020c fc1dcfb0 0 0
06 Wed Oct 10 18:28:53 2007 0x21000106 Cause: All fabric links down on Fabric
q
Process: fabricq_mgr

Traceback: fc1601a0 fc160290 fc9
d9f48 fc9d6e58 fc9d7054 fc9d7054
07 Wed Oct 10 19:04:02 2007 0x2000004f Cause: MBI-HELLO reloading node on rec
eiving reload notification
Process: mbi-hello

Traceback: fc160c38 fc160d34 482
0020c fc1ddfb0 0 0
08 Wed Oct 10 20:19:39 2007 0x0000004f Cause: HBAgent reloading node on recei
ving reload notification
Process: hbagent

Traceback: fc160c38 fc160d34 482
00228 fc1ddfb0 0 0
09 Wed Oct 10 20:45:53 2007 0x0000004f Cause: HBAgent reloading node on recei
ving reload notification
Process: hbagent

Traceback: fc160c38 fc160d34 482
00228 fc1ddfb0 0 0
10 Thu Oct 11 19:15:55 2007 0x0000004f Cause: HBAgent reloading node on recei
ving reload notification
Process: hbagent

Traceback: fc160c38 fc160d34 482
00228 fc1ddfb0 0 0

```

Related Commands

Command	Description
show reboot first, on page 26	Displays reboot information for a node first.
show reboot graceful, on page 29	Displays reboot information for the last graceful reboot for a node.
show reboot last, on page 32	Displays the latest crash information.
show reboot pcids, on page 35	Displays Persistent Critical Data Store critical information for the last ungraceful reboot.

show reboot last

To display the latest crash information, use the **show reboot last** command in EXEC mode.

show reboot last {**crashinfo** | **syslog** | **trace**} **location** *node-id*

Syntax Description

crashinfo	Displays crash information.
syslog	Displays information for the system logs.
trace	Displays the log for the reboot trace.
location	Specifies a node.
<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Modes

EXEC mode

Command History

Release	Modification
Release 3.6.0	This command was introduced.

Usage Guidelines

No specific guidelines impact the use of this command.

Task ID

Task ID	Operations
system	read

Examples

The following sample output is from the **show reboot last** command:

```
RP/0/RP0/CPU0:router# show reboot last crashinfo location 0/1/CPU0
Crashinfo Timestamp: Wed Oct 10 19:04:02 2007

20071010 10:04:03

Crash Reason: Cause code 0x2000004f Cause: MBI-HELLO reloading node on receivin0
Exception at 0xfc160f60 signal 5 c=1 f=3

Active process(s):
    pkg/bin/mbi-hello Thread ID 2 on cpu 0

REGISTER INFO
    r0      r1      r2      r3
R0  2000004f 4815da60 4820ea44 00000138
    r4      r5      r6      r7
R4  4815da38 00000002 4815da48 00000001
    r8      r9      r10     r11
```



```

R8  80000000  60277440  4815da28  00000600
    r12      r13      r14      r15
R12 24000094  4820ea00  00000000  00000000
    r16      r17      r18      r19
R16 00000000  00000000  00000000  00000000
    r20      r21      r22      r23
R20 00000000  00000000  00000000  00000000
    r24      r25      r26      r27
R24 00000000  00000000  00000000  482053cc
    r28      r29      r30      r31
R28 4815df7c  4815db68  0000004f  00000009
    cnt      lr      msr      pc
R32 fc1e800c  fc160f38  0002d932  fc160f60
    cnd      xer
R36 48000094  2000000f

```

SUPERVISOR REGISTERS

Memory Management Registers

Instruction BAT Registers

Index #	Value
IBAT0U #	0x1ffe
IBAT0L #	0x12
IBAT1U #	0
IBAT1L #	0
IBAT2U #	0x3000ffe
IBAT2L #	0xf0000032
IBAT3U #	0
IBAT3L #	0

Data BAT Registers

Index #	Value
DBAT0U #	0x1ffe
DBAT0L #	0x12
DBAT1U #	0
DBAT1L #	0x10000012
DBAT2U #	0x3000ffe
DBAT2L #	0xf000006a
DBAT3U #	0
DBAT3L #	0xf0000022

Segment Registers

Index #	SR-Value
0 #	0
1 #	0
2 #	0
3 #	0
4 #	0
5 #	0
6 #	0
7 #	0
8 #	0
9 #	0
10 #	0
11 #	0
12 #	0
13 #	0
14 #	0
15 #	0

```

Exception Handling Registers
Data Addr Reg #          DSISR
0x60277440 #          0x42000000
SPRG0 #          SPRG1 #          SPRG2 #          SPRG3
0x4815db68 #          0x4f #          0x9 #          0
SaveNRestore SRR0 #          SaveNRestore SRR1
0xfc160f5c #          0x2d932

```

```

Miscellaneous Registers
Processor Id Reg #          0
HID0 #          0x8410c0bc
HID1 #          0x90018c80

MSSCR0 #          0x88000
MSSSR0 #          0

```

```

STACK TRACE
#0 0xfc160f38
0

```

```

STACK TRACE
#0 0xfc160290
#1 0xfc99ded4
#2 0xfc99ae00
#3 0xfc99affc
#4 0xfc99affc
#5 0xfc99bccc
#6 0xfc646548
#7 0xfc63f074
#8 0xfc16a404
#9 0xfc1688d8
#10 0xfc63f3bc
#11 0xfc1d5fb0

```

Related Commands

Command	Description
show reboot first, on page 26	Displays reboot information for a node first.
show reboot graceful, on page 29	Displays reboot information for the last graceful reboot for a node.
show reboot history, on page 30	Displays reboot information for the last graceful reboot.
show reboot pcdds, on page 35	Displays Persistent Critical Data Store critical information for the last ungraceful reboot.

show reboot pcds

To display Persistent Critical Data Store (PCDS) critical information for the last ungraceful reboot, use the **show reboot pcds** command in EXEC mode.

show reboot pcds location *node-id*

Syntax Description	location	Specifies a node.
	<i>node-id</i>	Node ID. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation.

Command Modes EXEC mode

Command History	Release	Modification
	Release 3.6.0	This command was introduced.

Usage Guidelines No specific guidelines impact the use of this command.

Task ID	Task ID	Operations
	system	read

Examples The following example shows some sample output from the **show reboot pcds** command:

```
RP/0/RP0/CPU0:router# show reboot pcds location 0/1/CPU0

PCDS Timestamp: Wed Oct 10 19:04:02 2007
PCDS size: 131072 (bytes)
PCDS Data:

000000 03014352 49544d4f 4e000000 00000000 ..CRITMON.....
000010 02000000 00000008 00000000 30d00000 .....0...
000020 00001a90 00000000 00000000 00000000 .....
000030 0b0f0b0f 13911300 b8000013 b8000017 .....
000040 470ca354 11000300 00001c41 00000000 G..T.....A...
000050 00000974 00000000 30464fe4 ffffffff00 ...t....0FO....
000060 b8000003 b8000007 b8000003 b8000007 .....
000070 0b0f0b0f 13911300 b8000013 b8000017 .....
000080 470ca354 01000300 00001c44 00000000 G..T.....D...
000090 00000975 00000000 30464fe4 ffffffff00 ...u....0FO....
0000a0 b8000003 b8000007 b8000003 b8000007 .....
0000b0 0b0f0b0f 13911300 b8000013 b8000017 .....
0000c0 470ca355 11000300 00001c47 00000000 G..U.....G...
0000d0 00000976 00000000 30464fe4 ffffffff00 ...v....0FO....
0000e0 b8000003 b8000007 b8000003 b8000007 .....
0000f0 0b0f0b0f 13911300 b8000013 b8000017 .....
000100 470ca355 01000300 00001c4a 00000000 G..U.....J...
000110 00000977 00000000 30464fe4 ffffffff00 ...w....0FO....
000120 b8000003 b8000007 b8000003 b8000007 .....
```

show reboot pcids

```

000130 0b0f0b0f 13911300 b8000013 b8000017 .....
000140 470ca356 11000300 00001c4d 00000000 G..V.....M....
000150 00000978 00000000 30464fe4 ffffffff00 ...x....0FO....
000160 b8000003 b8000007 b8000003 b80000ff .....
000170 0bff0bff 13911300 b8000013 b8000017 .....
000180 470ca357 01000300 00001c50 00000000 G..W.....P....
000190 00000979 00000000 30464fe4 ffffffff00 ...y....0FO....
0001a0 b8000003 b8000007 b80000ff b8000007 .....
0001b0 ff0fff0f ff911300 b8000013 b8000017 .....
0001c0 470ca357 11000300 00001c53 00000000 G..W.....S....
0001d0 0000097a 00000000 30464fe4 ffffffff00 ...z....0FO....
0001e0 b8000003 b8000007 b80000ff b8000007 .....
0001f0 ff0fff0f ff911300 b8000013 b80000ff .....
000200 470ca358 01000300 00001c56 00000000 G..X.....V....
000210 0000097b 00000000 30464fe4 ffffffff00 ...{....0FO....
000220 b8000003 b8000007 b80000ff b8000007 .....
000230 ff0fff0f ff911300 b8000013 b80000ff .....
000240 470ca358 11000300 00001c59 00000000 G..X.....Y....
000250 0000097c 00000000 30464fe4 ffffffff00 ...|....0FO....
000260 b8000003 b8000007 b80000ff b8000007 .....
000270 ff0fff0f ff911300 b8000013 b80000ff .....
000280 470ca359 01000300 00001c5c 00000000 G..Y.....\....
000290 0000097d 00000000 30464fe4 ffffffff00 ...}....0FO....
0002a0 b8000003 b8000007 b8000003 b8000007 .....
0002b0 0b0f0b0f 13911300 b8000013 b8000017 .....
0002c0 470ca35a 11000300 00001c5f 00000000 G..Z....._....
0002d0 0000097e 00000000 30464fe4 ffffffff00 ...~....0FO....
0002e0 b8000003 b8000007 b8000003 b8000007 .....
0002f0 0b0f0b0f 13911300 b8000013 b8000017 .....
000300 470ca35a 01000300 00001c62 00000000 G..Z.....b....
000310 0000097f 00000000 30464fe4 ffffffff00 .....0FO....
000320 b8000003 b8000007 b8000003 b8000007 .....
000330 0b0f0b0f 13911300 b8000013 b8000017 .....
000340 470ca35b 11000300 00001c65 00000000 G..[.....e....
000350 00000980 00000000 30464fe4 ffffffff00 .....0FO....
000360 b8000003 b8000007 b8000003 b8000007 .....
000370 0b0fff0f 13911300 b8000013 b8000017 .....
000380 470ca35b 01000300 00001c68 00000000 G..[.....h....
000390 00000981 00000000 30464fe4 ffffffff00 .....0FO....
0003a0 b80000ff b80000ff b8000003 b80000ff .....
0003b0 0bff0bff 13911300 b80000ff b8000017 .....
0003c0 470ca35c 11000300 00001c6b 00000000 G..\.....k....
0003d0 00000982 00000000 30464fe4 ffffffff00 .....0FO....
0003e0 b8000003 b8000007 b8000003 b8000007 .....
0003f0 0b0f0b0f 13911300 b8000013 b8000017 .....
000400 470ca35d 01000300 00001c6e 00000000 G..].....n....
000410 00000983 00000000 30464fe4 ffffffff00 .....0FO....
000420 b8000003 b8000007 b8000003 b8000007 .....
000430 0b0f0b0f 13911300 b8000013 b8000017 .....
000440 470ca35d 11000300 00001c71 00000000 G..].....q....
000450 00000984 00000000 30464fe4 ffffffff00 .....0FO....
000460 b8000003 b8000007 b8000003 b8000007 .....
000470 0b0f0b0f 13911300 b8000013 b8000017 .....
000480 470ca35e 01000300 00001c74 00000000 G..^.....t....
000490 00000985 00000000 30464fe4 ffffffff00 .....0FO....
0004a0 b8000003 b8000007 b8000003 b8000007 .....
0004b0 0b0f0b0f 13911300 b8000013 b8000017 .....
0004c0 470ca35e 11000300 00001c77 00000000 G..^.....w....
0004d0 00000986 00000000 30464fe4 ffffffff00 .....0FO....
0004e0 b8000003 b8000007 b8000003 b8000007 .....
0004f0 0b0f0b0f 13911300 b8000013 b8000017 .....
000500 470ca35f 01000300 00001c7a 00000000 G.._.....z....
000510 00000987 00000000 30464fe4 ffffffff00 .....0FO....
000520 b8000003 b8000007 b8000003 b8000007 .....

```

```

000530 0b0f0b0f 13911300 b8000013 b8000017 .....
000540 470ca360 11000300 00001c7d 00000000 G..`.....}....
000550 00000988 00000000 30464fe4 ffffffff00 .....0FO.....
000560 b8000003 b8000007 b8000003 b8000007 .....
000570 0b0f0b0f 13911300 b8000013 b8000017 .....
000580 470ca360 01000300 00001c80 00000000 G..`.....
000590 00000989 00000000 30464fe4 ffffffff00 .....0FO.....
0005a0 b8000003 b8000007 b8000003 b8000007 .....
0005b0 0b0f0b0f 13911300 b8000013 b8000017 .....
0005c0 470ca361 11000300 00001c83 00000000 G..a.....
0005d0 0000098a 00000000 30464fe4 ffffffff00 .....0FO.....
0005e0 b8000003 b8000007 b8000003 b8000007 .....
0005f0 0b0f0b0f 13911300 b8000013 b8000017 .....
000600 470ca361 01000300 00001c86 00000000 G..a.....
000610 0000098b 00000000 30464fe4 ffffffff00 .....0FO.....
000620 b8000003 b8000007 b8000003 b8000007 .....
000630 0b0f0b0f 13911300 b8000013 b8000017 .....
000640 470ca362 11000300 00001c89 00000000 G..b.....
000650 0000098c 00000000 30464fe4 ffffffff00 .....0FO.....
000660 b8000003 b8000007 b8000003 b8000007 .....
000670 0b0f0b0f 13911300 b8000013 b8000017 .....
000680 470ca363 01000300 00001c8c 00000000 G..c.....
000690 0000098d 00000000 30464fe4 ffffffff00 .....0FO.....
0006a0 b8000003 b8000007 b8000003 b8000007 .....
0006b0 0b0f0b0f 13911300 b8000013 b8000017 .....
0006c0 470ca363 11000300 00001c8f 00000000 G..c.....
0006d0 0000098e 00000000 30464fe4 ffffffff00 .....0FO.....

```

Related Commands

Command	Description
show reboot first, on page 26	Displays reboot information for a node first.
show reboot graceful, on page 29	Displays reboot information for the last graceful reboot for a node.
show reboot history, on page 30	Displays reboot information for the last graceful reboot.
show reboot last, on page 32	Displays the latest crash information.

show watchdog

To display information about the memory state or threshold memory, use the **show watchdog** command in EXEC mode.

show watchdog [{**memory-state** | **threshold memory configured**}] [**location** *node-id*]

Syntax Description		
memory-state		(Optional) Displays the memory state.
threshold memory		(Optional) Displays the memory thresholds.
configured		Displays the configured memory thresholds.
location <i>node-id</i>		(Optional) Specifies a node. The <i>node-id</i> argument is entered in the <i>rack/slot/module</i> notation. The location <i>node-id</i> keyword and argument must be specified if the threshold memory keywords are selected.

Command Default The command output is not compressed.

Command Modes EXEC mode

Command History	Release	Modification
	Release 2.0	This command was introduced.

Usage Guidelines Use the **show watchdog** command to display information about the memory states or thresholds for a specified location. You can display the default or configured memory thresholds.

Task ID	Task ID	Operations
	basic-services	read

Examples The following sample output is from the **show watchdog** command:

```
RP/0/RP0/CPU0:router# show watchdog memory-state
Wed Nov 4 00:18:59.575 UTC
Memory information:
  Physical Memory: 4096      MB
  Free Memory:    2623.671 MB
```

Memory State: Normal

Related Commands

Command	Description
watchdog threshold memory	Configures the value of memory available for each alarm threshold.

■ show watchdog