



debug hwpmc commands

Command reference

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debug hwpmc commands

debug hwpmc create

Start a new HWPMC profile

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc create` command is used to create a Hardware Performance Monitoring Counter profile.

Parameters

-node {<nodename>|local} - Node Name (privilege: advanced)

This parameter specifies the node for which the profile will be created.

-name <text> - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile that will be created. The default name will be the date and time the profile was created, e.g. 2023_06_07-08_53_44_UTC.

-counter <text> - HWPMC Event Specification (privilege: advanced)

This parameter specifies the performance monitoring counter event to sample. The default counter is "UNHALTED-CORE-CYCLES".

[-process <text>] - Profile Specific Process (privilege: advanced)

This parameter specifies the process to sample; may be a non-negative integer denoting a specific process id, or a regular expression for selecting processes based on their names. This field is optional.

Examples

This example creates a hwpmc profile with default parameters.

```
cluster1::> debug hwpmc create -node node1
```

debug hwpmc delete

Delete or cancel a HWPMC profile

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc delete` command allows the user to delete or cancel Hardware Performance Monitoring Counter profiles.

Parameters

-node {<nodename>|local} - Node Name (privilege: advanced)

This parameter specifies the node on which the profile was collected.

-name <text> - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile that will be deleted.

Examples

The following example deletes a profile that was collected on node1:

```
cluster1::> debug hwpmc delete -node node1 -name 2023_06_06-08_53_44.UTC
```

debug hwpmc show

Display HWPMC profiles

Availability: This command is available to *cluster* administrators at the *advanced* privilege level.

Description

The `debug hwpmc show` command displays a list of the current Hardware Performance Monitoring Counter profiles along with the state of each one.

Parameters

[-fields <fieldname>,...]

If you specify the `-fields <fieldname>, ...` parameter, the command output also includes the specified field or fields. You can use `'-fields ?'` to display the fields to specify.

[-instance] (privilege: advanced) }

If you specify the `-instance` parameter, the command displays detailed information about all fields.

[-node {<nodename>|local}] - Node Name (privilege: advanced)

This parameter selects the node from which the profiles are displayed.

[-name <text>] - Name of the HWPMC Profile (privilege: advanced)

This parameter specifies the name of the profile.

[-date <MM/DD/YYYY HH:MM:SS>] - Date of the HWPMC Profile (privilege: advanced)

This parameter filters the results to display profiles for a specific date or a date range.

[-status <State of HWPMC Profiles>] - Current Status of HWPMC Profile (privilege: advanced)

This parameter specifies the current state of the profile. The possible states are:

- `running` - Collecting hardware profiling data. The amount of time in this state is directly related to the `-duration` parameter used when creating the HWPMC profile.

- processing - The hardware profiling data is being processed. This typically takes several minutes to complete, depending on the amount of data collected in the *running* state."
- complete - The profile is complete.
- failed - Creation of the profile failed. Use `debug hwpmc show -instance` for details.

[`-status-message <text>`] - Current Status Message (privilege: advanced)

This parameter displays extended status messages associated with each profile.

[`-counter <text>`] - HWPMC Event Specification (privilege: advanced)

This parameter specifies one or more performance counters to be displayed.

[`-process <text>`] - Profile Specific Process (privilege: advanced)

This parameter filters the output to show profiles associated with a specific process or process identifier.

Examples

The following example displays information about the profiles on a node:

```
cluster1::> debug hwpmc show -node node1
```

Node	Profile Name	Status
-----	-----	-----
node1	2023_06_06-08_53_44_UTC	collecting
node1	2023_06_06-08_54_53_UTC	complete

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