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Rocky Enterprise Linux 9.2 Manual Pages on command 'ras-mc-ctl.8'

\$ man ras-mc-ctl.8

RAS-MC-CTL(8) RAS memory controller admin utility RAS-MC-CTL(8)

NAME

ras-mc-ctl - RAS memory controller admin utility

SYNOPSIS

ras-mc-ctl [OPTION]...

DESCRIPTION

The ras-mc-ctl program is a perl(1) script which performs some useful RAS administration tasks on EDAC (Error Detection and Correction) drivers.

OPTIONS

--help Display a brief usage message.

--mainboard

Print mainboard vendor and model for this hardware, if available. The method used by ras-mc-ctl to obtain the mainboard vendor and model information for the current system is described below in the MAINBOARD CONFIGURATION section.

--status

Print the status of EDAC drivers (loaded or unloaded).

--quiet

Be less verbose when executing an operation.

--register-labels

Register motherboard DIMM labels into EDAC driver sysfs files.

This option uses the detected mainboard manufacturer and model number in combination with a "labels database" found in any of the files under /etc/ras/dimm_labels.d/* or in the labels.db file at /etc/ras/dimm_labels.db. An entry for the current hardware must exist in the labels database for this option to do anything.

--print-labels

Display the configured labels for the current hardware, as well as the current labels registered with EDAC.

--guess-labels

Print DMI labels, when bank locator is available in the DMI table. It helps to fill the labels database at /etc/ras/dimm_labels.d/.

--labeldb=DB

Specify an alternate location for the labels database.

--delay=time

Specify a delay of time seconds before registering DIMM labels. Only meaningful if used together with --register-labels.

--layout

Prints the memory layout as detected by the EDAC driver. Useful to check if the EDAC driver is properly detecting the memory controller architecture.

--summary

Presents a summary of the logged errors.

--errors

Shows the errors stored at the error database.

--error-count

Shows the corrected and uncorrected error counts using sysfs.

--vendor-errors-summary=platform-id

Presents a summary of the vendor-specific logged errors.

--vendor-errors=platform-id

Shows the vendor-specific errors stored in the error database.

--vendor-platforms

Shows the supported platforms with platform-ids for the vendor-specific errors.

MAINBOARD CONFIGURATION

The `ras-mc-ctl` script uses the following method to determine the current system's mainboard vendor and model information:

1. If the config file `/etc/edac/mainboard` exists, then it is parsed by `ras-mc-ctl`. The mainboard config file has the following simple syntax:

Example:

```
vendor = <mainboard vendor string>
```

```
model = <mainboard model string>
```

```
script = <script to gather mainboard information>
```

Where anything after a '#' character on a line is considered a comment. If the keyword `script` is specified, then that script or executable is run by `ras-mc-ctl` to gather the mainboard vendor and model information. The script should write the resulting information on stdout in the same format as the mainboard config file.

2. If no mainboard config file exists, then `ras-mc-ctl` will attempt to read DMI information from the sysfs files

```
/sys/class/dmi/id/board_vendor
```

```
/sys/class/dmi/id/board_name
```

3. If the sysfs files above do not exist, then `ras-mc-ctl` will fall back to parsing output of the `dmidecode(8)` utility. Use of this utility will most often require that `ras-mc-ctl` be run as root.

SEE ALSO

`rasdaemon(1)`

`RAS-MC-CTL(8)`