NAME

ctlstat - CAM Target Layer statistics utility

SYNOPSIS

ctlstat [-**t**] [-**c** *count*] [-**C**] [-**d**] [-**D**] [-**j**] [-**P**] [-**l** *lun*] [-**n** *numdevs*] [-**p** *port*] [-**w** *wait*]

DESCRIPTION

The **ctlstat** utility provides statistics information for the CAM Target Layer. The first display (except for dump and JSON modes) shows average statistics since system startup. Subsequent displays show average statistics during the measurement interval.

The options are as follows:

-t	Total mode. This displays separate columns with the total read and write output, and a combined total column that also includes non I/O operations.
-c count	Display statistics this many times.
-C	Disable CPU statistics display.
-d	Display DMA operation time (latency) instead of overall I/O time (latency).
-D	Text dump mode. Dump statistics every 30 seconds in a text format suitable for parsing. No statistics are computed in this mode, only raw numbers are displayed.
-h	Suppress display of the header.
-j	JSON dump mode. Dump statistics every 30 seconds in JavaScript Object Notation (JSON) format. No statistics are computed in this mode, only raw numbers are displayed.
-Р	Prometheus dump mode. Dump statistics in a format suitable for ingestion into Prometheus. When invoked with this option, ctlstat dumps once, regardless of the -t option. This option is especially useful when invoked by inetd(8). See the comments in <i>/etc/inetd.conf</i> for an example configuration.
-l lun	Request statistics for the specified LUN.
-n numdevs	Display statistics for this many devices.
-p port	Request statistics for the specified port.

-w *wait* Wait this many seconds in between displays. If this option is not specified, **ctlstat** defaults to a 1 second interval.

EXAMPLES

ctlstat -t

Display total statistics for the system with a one second interval.

ctlstat -d -l 5 -C

Display average DMA time for LUN 5 and omit CPU utilization.

ctlstat -n 7 -w 10

Display statistics for the first 7 LUNs, and display average statistics every 10 seconds.

SEE ALSO

cam(3), cam(4), ctl(4), xpt(4), camcontrol(8), ctladm(8), ctld(8), iostat(8), Prometheus project: *https://prometheus.io/*.

Prometheus exposition formats: https://prometheus.io/docs/instrumenting/exposition_formats/.

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