NAME

ioping − simple disk I/O latency monitoring tool

SYNOPSYS

ioping [**−LCDRq**] [**−c** *count*] [**−w** *deadline*] [**−p** *period*] [**−i** *interval*] [**−s** *size*] [**−S** *wsize*] [**−o** *offset*] *device*| *file*|*directory*

ioping -h

DESCRIPTION

This tool lets you monitor I/O latency in real time.

OPTIONS

−c *count*
Stop after *count* requests.

−w *deadline*
Stop after *deadline* time passed.

−p *period*
Print raw statistics for every *period* requests.

−i *interval*
Set time between requests to *interval*.

−s *size* Request size.

−S *size* Working set size.

−o *offset*
Offset in input file.

−L Use sequential operations rather than random.

−C Use cached I/O.

−D Use direct I/O.

−R Disk seek rate test (same as **-q -i 0 -w 3**).

−q Suppress human-readable output.

−h Display help message and exit.

Argument suffixes

For options that expect time argument (**−i** and **−w**), default is seconds, unless you specify one of the following suffixes (case-insensitive):

us, **usec**
microseconds

ms, **msec**
milliseconds

s, **sec** seconds

m, **min** minutes

h, **hour**
hours

For options that expect "size" argument (**−s**, **−S** and **−o**), default is bytes, unless you specify one of the following suffixes (case-insensitive):

k, **kb** kilobytes

p memory pages (a page is always 4K).

m, **mb** megabytes

g, **gb** gigabytes

For options that expect "number" argument (**-p** and **-c**) you can optionally specify one of the following suffixes (case-insensitive):

da deca (tens, 10)

k kilo (thousands, 1 000)

M mega (millions, 1 000 000)

G giga (billions, 1 000 000 000)

EXIT STATUS

Returns **0** upon success. The following error codes are defined:

1 Invalid usage (error in arguments).

2 Error during preparation stage.

3 Error during runtime.

EXAMPLES

ioping .
Show disk I/O latency using the default values and the current directory, until interrupted.

ioping -c 10 -s 1M /tmp
Measure latency on **/tmp** using 10 requests of 1 megabyte each.

ioping -R /dev/sda
Measure disk seek rate.

ioping -RL /dev/sda
Measure disk sequential speed.