



Linux Ubuntu 26.04 Manual Pages on command 'perf-iostat.1'

\$ man perf-iostat.1

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NAME

perf-iostat - Show I/O performance metrics

SYNOPSIS

perf iostat list

perf iostat <ports> -- <command> [<options>]

DESCRIPTION

Mode is intended to provide four I/O performance metrics per each PCIe root port:

- ? Inbound Read - I/O devices below root port read from the host memory, in MB
- ? Inbound Write - I/O devices below root port write to the host memory, in MB
- ? Outbound Read - CPU reads from I/O devices below root port, in MB
- ? Outbound Write - CPU writes to I/O devices below root port, in MB

OPTIONS

<command>...

Any command you can specify in a shell.

list

List all PCIe root ports.

<ports>

Select the root ports for monitoring. Comma-separated list is supported.

EXAMPLES

1. List all PCIe root ports (example for 2-S platform):

```
$ perf iostat list
```

```
S0-uncore_jio_0<0000:00>
```

S1-uncore_iio_0<0000:80>

S0-uncore_iio_1<0000:17>

S1-uncore_iio_1<0000:85>

S0-uncore_iio_2<0000:3a>

S1-uncore_iio_2<0000:ae>

S0-uncore_iio_3<0000:5d>

S1-uncore_iio_3<0000:d7>

2. Collect metrics for all PCIe root ports:

```
$ perf iostat -- dd if=/dev/zero of=/dev/nvme0n1 bs=1M oflag=direct
```

357708+0 records in

357707+0 records out

375083606016 bytes (375 GB, 349 GiB) copied, 215.974 s, 1.7 GB/s

Performance counter stats for 'system wide':

port	Inbound Read(MB)	Inbound Write(MB)	Outbound Read(MB)	Outbound Write(MB)
0000:00	1	0	2	3
0000:80	0	0	0	0
0000:17	352552	43	0	21
0000:85	0	0	0	0
0000:3a	3	0	0	0
0000:ae	0	0	0	0
0000:5d	0	0	0	0
0000:d7	0	0	0	0

3. Collect metrics for comma-separated list of PCIe root ports:

```
$ perf iostat 0000:17,0:3a -- dd if=/dev/zero of=/dev/nvme0n1 bs=1M oflag=direct
```

357708+0 records in

357707+0 records out

375083606016 bytes (375 GB, 349 GiB) copied, 197.08 s, 1.9 GB/s

Performance counter stats for 'system wide':

port	Inbound Read(MB)	Inbound Write(MB)	Outbound Read(MB)	Outbound Write(MB)
0000:17	358559	44	0	22
0000:3a	3	2	0	0

197.081983474 seconds time elapsed

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