

Check disk I/O speed

Before we start, we need to install the `dd`, `hdparm`, and `fio` packages. We can do this by running the following command in the terminal:

```
1. dd if=/dev/zero of=/testfile bs=1G count=1 oflag=direct
```

dd is a command-line utility for converting and copying files. It can be used to create a file of a specific size, as shown in the command above. The `bs` option specifies the block size, and the `count` option specifies the number of blocks to write. The `oflag` option specifies the output flag, in this case, `direct`.

hdparm is a command-line utility for tuning hard disk parameters. It can be used to set various options, such as the cache size, the buffer size, and the transfer mode. The `fio` package is a file I/O benchmarking tool that can be used to measure the performance of different storage configurations.

```
sudo dd if=/dev/zero of=/testfile bs=1G count=1 oflag=direct
```

Use code with caution.

(1GB file is created in the root directory.)

Now we can check the disk I/O speed by running the following command in the terminal:

```
sudo dd if=/testfile of=/dev/null bs=1G count=1 iflag=direct
```

```
sudo dd if=/testfile of=/dev/null bs=1G count=1 iflag=direct
```

Use code with caution.

(The file is deleted from the root directory.)

We can delete the file by running the following command in the terminal:

```
sudo rm /testfile
```

```
sudo rm /testfile
```

Use code with caution.

[1]

2. hdparm can be used to tune hard disk parameters. We can install it by running the following command in the terminal:

```
sudo apt update && sudo apt install hdparm
```

hdparm is a command-line utility for tuning hard disk parameters. It can be used to set various options, such as the cache size, the buffer size, and the transfer mode. The `SSD` option is used to optimize the parameters for solid state drives.

```
sudo apt update && sudo apt install hdparm
```

Use code with caution.

Now we can check the disk I/O speed by running the following command in the terminal:

```
sudo hdparm -Tt /dev/sda
```

Use code with caution.

```
( /dev/sda 0 0 0 0 0 0 .)
```

3. `cat /proc/diskstats` (iostat)

`cat /proc/diskstats` (I/O) `cat /proc/diskstats` `sysstat` `cat /proc/diskstats` . [\[1\]](#), [\[2\]](#)

`cat /proc/diskstats` :

bash

```
sudo apt install sysstat
```

Use code with caution.

`cat /proc/diskstats` :

bash

```
iostat -xz 2
```

Use code with caution.