

	3
hdparm	3
dd	3
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-

hdparm

hdparm

hdparm --direct -t -T /dev/sdX . 가 .

- --direct 0_DIRECT
- -T (--direct가)
- -t .
- /dev/sdX SSD HDD가 .

```
# Samsung SSD 750 EVO 500GB (S36SNWAH582670L)
```

```
# hdparm --direct -t -T /dev/sde
```

```
/dev/sde:
```

```
Timing 0_DIRECT cached reads: 984 MB in 2.00 seconds = 491.87 MB/sec
```

```
Timing 0_DIRECT disk reads: 1470 MB in 3.00 seconds = 489.76 MB/sec
```

dd

dd

convert and copy a file . dd .
가 .

- if= : /dev/zero /dev/random
- of= : test.file
- bs= : . k, M, G
- count= : . bs=2M count=10 2MB*10 = 20MB
- oflag=dsync : dsync(I/O).

```
# dd if=/dev/zero of=test.file bs=64M count=16 oflag=dsync
```

```
16+0 records in
```

```
16+0 records out
```

```
1073741824 bytes (1.1 GB, 1.0 GiB) copied, 4.45435 s, 241 MB/s
```

- [dd man pages](#)

- https://linuxreviews.org/HOWTO_Test_Disk_I/O_Performance

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