2025/10/19 05:25 1/4

	 3
hdparm	3
dd	 3
	3

Last update: 2021/12/20 https://atl.kr/dokuwiki/doku.php/%EB%94%94%EC%8A%A4%ED%81%AC_%EC%84%B1%EB%8A%A5_%ED%99%95%EC%9D%88 12:48 -

https://atl.kr/dokuwiki/ Printed on 2025/10/19 05:25

2025/10/19 05:25 3/4

hdparm

```
hdparm
         hdparm --direct -t -T /dev/sdX
                                                          가
   • --direct
                                          0 DIRECT
   • -T
                                                 --direct가
   • -t
   /dev/sdX SSD
                    HDD가
# Samsung SSD 750 EV0 500GB (S36SNWAH582670L)
# hdparm --direct -t -T /dev/sde
/dev/sde:
 Timing O DIRECT cached reads: 984 MB in 2.00 seconds = 491.87 MB/sec
 Timing O_DIRECT disk reads: 1470 MB in 3.00 seconds = 489.76 MB/sec
dd
                               dd
convert and copy a file
                                          . dd
   • if=:/dev/zero /dev/random
   • of=:test.file
   • bs=:
                                                         . k, M, G
                                 .bs=2M count=10
                                                    2MB*10 = 20MB
   count=:
   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
```

https://linuxreviews.org/HOWTO_Test_Disk_I/O_Performance

• dd man pages

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Last update: 2021/12/20 12:48



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