

```
> inxi -CmGMD
```

```
Machine:
```

```
Type: Desktop Mobo: Gigabyte model: B850 GAMING WIFI6 v: x.x  
serial: <superuser required> UEFI: American Megatrends LLC. v: F6  
date: 07/31/2025
```

```
Memory:
```

```
System RAM: total: 32 GiB available: 30.95 GiB used: 4.84 GiB (15.6%)  
Array-1: capacity: 128 GiB slots: 4 modules: 2 EC: None  
Device-1: Channel-A DIMM 0 type: no module installed  
Device-2: Channel-A DIMM 1 type: DDR5 size: 16 GiB speed: 6400 MT/s  
Device-3: Channel-B DIMM 0 type: no module installed  
Device-4: Channel-B DIMM 1 type: DDR5 size: 16 GiB speed: 6400 MT/s
```

```
CPU:
```

```
Info: 6-core model: AMD Ryzen 5 9600X bits: 64 type: MT MCP cache: L2: 6 MiB  
Speed (MHz): avg: 605 min/max: 605/5581 cores: 1: 605 2: 605 3: 605 4: 605  
5: 605 6: 605 7: 605 8: 605 9: 605 10: 605 11: 605 12: 605
```

```
> sudo nvme id-ctrl /dev/nvme1 -H | head
```

```
NVME Identify Controller:
```

```
vid      : 0x1e4b  
ssvid    : 0x1e4b  
sn       : 250327755180057  
mn       : SPCC M.2 PCIe SSD  
fr       : SN24785  
rab      : 0  
ieee     : 0c82d5  
cmic     : 0  
[3:3]   : 0      ANA not supported
```

```
> sudo nvme smart-log /dev/nvme1n1
```

```
Smart Log for NVME device:nvme1n1 namespace-id:ffffffff
```

```
critical_warning      : 0  
temperature           : 43 °C (316 K)  
available_spare       : 100%  
available_spare_threshold : 1%  
percentage_used       : 1%  
endurance_group       : 0  
endurance_group critical warning summary: 0  
Data Units Read       : 11671553 (5.98 TB)  
Data Units Written    : 16539729 (8.47 TB)  
host_read_commands    : 72383869  
host_write_commands   : 120090711  
controller_busy_time  : 555  
power_cycles          : 168  
power_on_hours        : 52  
unsafe_shutdowns     : 10  
media_errors          : 0  
num_err_log_entries   : 0  
Warning Temperature Time : 0  
Critical Composite Temperature Time : 0  
Temperature Sensor 1   : 43 °C (316 K)  
Temperature Sensor 2   : 35 °C (308 K)  
Thermal Management T1 Trans Count : 0  
Thermal Management T2 Trans Count : 0  
Thermal Management T1 Total Time : 0  
Thermal Management T2 Total Time : 0
```

```
> sudo lspci -vv | grep -P "[0-9a-f]{2}:[0-9a-f]{2}\.[0-9a-f]|LnkSta:"
```

```
....  
04:00.0 Non-Volatile memory controller: MAXIO Technology (Hangzhou) Ltd. NVMe SSD Controller MAP1602  
(DRAM-less) (rev 01) (prog-if 02 [NVM Express])  
LnkSta: Speed 16GT/s, Width x4  
....
```

```
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing O_DIRECT cached reads: 2332 MB in 2.00 seconds = 1165.88 MB/sec  
Timing O_DIRECT disk reads: 2424 MB in 3.00 seconds = 807.94 MB/sec
```

```
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2436 MB in 2.00 seconds = 1217.50 MB/sec
Timing 0_DIRECT disk reads: 1382 MB in 3.09 seconds = 447.65 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.11 seconds = 12.24 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
```

```
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.51 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
```

```
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2476 MB in 2.00 seconds = 1238.03 MB/sec
Timing 0_DIRECT disk reads: 2720 MB in 3.00 seconds = 906.55 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2030 MB in 2.00 seconds = 1013.95 MB/sec
Timing 0_DIRECT disk reads: 2810 MB in 3.00 seconds = 936.09 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2076 MB in 2.00 seconds = 1037.00 MB/sec
Timing 0_DIRECT disk reads: 2722 MB in 3.00 seconds = 907.02 MB/sec
```

```
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2136 MB in 2.00 seconds = 1067.63 MB/sec
Timing 0_DIRECT disk reads: 2672 MB in 3.00 seconds = 890.47 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2556 MB in 2.00 seconds = 1277.25 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 24 MB in 2.07 seconds = 11.57 MB/sec
Timing 0_DIRECT disk reads: 34 MB in 3.01 seconds = 11.31 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 36 MB in 3.03 seconds = 11.89 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.52 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.50 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.51 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
[sudo] password for marcewho:

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2386 MB in 2.00 seconds = 1192.73 MB/sec
Timing 0_DIRECT disk reads: 2510 MB in 3.00 seconds = 836.41 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2382 MB in 2.00 seconds = 1191.07 MB/sec
Timing 0_DIRECT disk reads: 2576 MB in 3.00 seconds = 858.54 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2344 MB in 2.00 seconds = 1171.97 MB/sec
Timing 0_DIRECT disk reads: 2828 MB in 3.00 seconds = 942.18 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2232 MB in 2.00 seconds = 1116.01 MB/sec
Timing 0_DIRECT disk reads: 2214 MB in 3.00 seconds = 737.86 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2086 MB in 2.00 seconds = 1042.84 MB/sec
Timing 0_DIRECT disk reads: 2446 MB in 3.00 seconds = 814.78 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2382 MB in 2.00 seconds = 1190.87 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.50 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 24 MB in 2.25 seconds = 10.66 MB/sec
Timing 0_DIRECT disk reads: 36 MB in 3.10 seconds = 11.61 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 24 MB in 2.13 seconds = 11.25 MB/sec
Timing 0_DIRECT disk reads: 34 MB in 3.05 seconds = 11.16 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 24 MB in 2.25 seconds = 10.66 MB/sec
Timing 0_DIRECT disk reads: 36 MB in 3.10 seconds = 11.61 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 24 MB in 2.13 seconds = 11.25 MB/sec
Timing 0_DIRECT disk reads: 34 MB in 3.05 seconds = 11.16 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1

/dev/nvme1n1:
Timing 0_DIRECT cached reads: 2088 MB in 2.06 seconds = 1015.67 MB/sec
Timing 0_DIRECT disk reads: 1548 MB in 3.00 seconds = 515.31 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 2502 MB in 2.00 seconds = 1250.92 MB/sec
Timing 0_DIRECT disk reads: 2454 MB in 3.00 seconds = 817.67 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 2504 MB in 2.00 seconds = 1251.15 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 2148 MB in 2.00 seconds = 1073.95 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.05 seconds = 12.46 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 26 MB in 2.08 seconds = 12.53 MB/sec
Timing 0_DIRECT disk reads: 38 MB in 3.04 seconds = 12.52 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 412 MB in 2.00 seconds = 205.87 MB/sec
Timing 0_DIRECT disk reads: 2602 MB in 3.00 seconds = 867.12 MB/sec
> sudo hdparm -Tt --direct /dev/nvme1n1
```

```
/dev/nvme1n1:
```

```
Timing 0_DIRECT cached reads: 2288 MB in 2.00 seconds = 1143.83 MB/sec
Timing 0_DIRECT disk reads: 2742 MB in 3.00 seconds = 913.55 MB/sec
```

```
~
```

```
13s 20:15:42
```

```
> sudo -i
[sudo] password for .....:
[root@TheStationaryCapybara ~]#
root@TheStationaryCapybara ~]# while true ; do echo 'Checking write speed:' ; dd if=/dev/zero of=/mnt/perf-test-file bs=1M count=1024 conv=fdatasync,notrunc status=progress ; echo -e "\nFlushing caches:" ; echo 3 > /proc/sys/vm/drop_caches ; echo -e "\nChecking read speeds:" ; dd if=/mnt/perf-test-file of=/dev/null bs=1M count=1024 status=progress ; rm /mnt/perf-test-file ; done
Checking write speed:
976224256 bytes (976 MB, 931 MiB) copied, 5 s, 195 MB/s1073741824 bytes (1,1 GB, 1,0 GiB) copied,
5,69665 s, 188 MB/s
```

```
1024+0 records in
```

```
1024+0 records out
```

```
1073741824 bytes (1,1 GB, 1,0 GiB) copied, 7,71067 s, 139 MB/s
```

```
Flushing caches:
```

```
Checking read speeds:
```

```
267386880 bytes (267 MB, 255 MiB) copied, 22 s, 11,9 MB/s
```

```
1024+0 records in
```

```
1024+0 records out
```

```
1073741824 bytes (1,1 GB, 1,0 GiB) copied, 22,8751 s, 46,9 MB/s
```

```
Checking write speed:
```

```
1024+0 records in
```

```
1024+0 records out
```

```
1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,474302 s, 2,3 GB/s
```

```
Flushing caches:
```

```
Checking read speeds:
```

```
1024+0 records in
```

```
1024+0 records out
```

```
1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,324696 s, 3,3 GB/s
```

```
Checking write speed:
```

```
1024+0 records in
```

```
1024+0 records out
```

```
1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,381949 s, 2,8 GB/s
```

Flushing caches:

Checking read speeds:

1064304640 bytes (1,1 GB, 1015 MiB) copied, 14 s, 75,4 MB/s

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 14,437 s, 74,4 MB/s

Checking write speed:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,921059 s, 1,2 GB/s

Flushing caches:

Checking read speeds:

1055916032 bytes (1,1 GB, 1007 MiB) copied, 31 s, 34,1 MB/s

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 31,0052 s, 34,6 MB/s

Checking write speed:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,451782 s, 2,4 GB/s

Flushing caches:

Checking read speeds:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,326763 s, 3,3 GB/s

Checking write speed:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,418139 s, 2,6 GB/s

Flushing caches:

Checking read speeds:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,328308 s, 3,3 GB/s

Checking write speed:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,428204 s, 2,5 GB/s

Flushing caches:

Checking read speeds:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,327473 s, 3,3 GB/s

Checking write speed:

1024+0 records in

1024+0 records out

1073741824 bytes (1,1 GB, 1,0 GiB) copied, 0,387845 s, 2,8 GB/s

Flushing caches:

^C

[root@TheStationaryCapybara ~]#