

Topton N200 router geekbench

Geekbench 6.2.2 Result

single core	multi core	Vulkan
1274	2753	3409

PassMark PerformanceTest Linux (11.0.1002) Results

CPU	MEM
4,631	2,185

<https://www.passmark.com/baselines/V11/display.php?id=506012763543>

PassMark PerformanceTest Linux (11.0.1002)

Intel N200 (x86_64)
4 cores @ 3700 MHz | 15.4 GiB RAM
Number of Processes: 4 | Test Iterations: 1 | Test Duration: Medium

CPU Mark: 4631
Integer Math 19335 Million Operations/s
Floating Point Math 11928 Million Operations/s
Prime Numbers 16.6 Million Primes/s
Sorting 6001 Thousand Strings/s
Encryption 3336 MB/s
Compression 43942 KB/s
CPU Single Threaded 1987 Million Operations/s
Physics 371 Frames/s
Extended Instructions (SSE) 1950 Million Matrices/s

Memory Mark: 2185
Database Operations 2126 Thousand Operations/s
Memory Read Cached 17163 MB/s
Memory Read Uncached 11007 MB/s
Memory Write 9276 MB/s
Available RAM 7500 Megabytes
Memory Latency 34 Nanoseconds
Memory Threaded 23077 MB/s

Results submitted: <https://www.passmark.com/baselines/V11/display.php?id=506008534205>

Use ESC or CTRL-C to exit

A: Run All Tests C: Run CPU Tests M: Run Memory Tests U: Upload Test Results

Device

<https://www.aliexpress.com/item/1005005937928989.html>

Create and start Ubuntu Live CD (USB)

<https://releases.ubuntu.com/jammy/>

<https://rufus.ie/en/>

if you got "Device eliminated because it was detected as a Hard Drive (score 13 > 0)" you need to Press "Show Advanced drive properties" and check "List USB Hard Drives

HWE kernel + search for additional drivers

After boot Live USB

```
vi /etc/ssh/sshd_config
systemctl restart sshd
```

sshd_config

```
Port 22
ListenAddress 0.0.0.0
PermitRootLogin yes
PasswordAuthentication yes
KbdInteractiveAuthentication no
```

Download Geekbench

```
wget https://cdn.geekbench.com/Geekbench-6.2.2-Linux.tar.gz
tar xvf Geekbench-6.2.2-Linux.tar.gz
```

Test

```
Geekbench-6.2.2-Linux/geekbench6
```

example output

```
root@ubuntu-server:~# Geekbench-6.2.2-Linux/geekbench6
Geekbench 6.2.2 : https://www.geekbench.com/

Geekbench 6 requires an active internet connection and automatically uploads
benchmark results to the Geekbench Browser.

Upgrade to Geekbench 6 Pro to enable offline use and unlock other features:

https://store.primatelabs.com/v6

Enter your Geekbench 6 Pro license using the following command line:

Geekbench-6.2.2-Linux/geekbench6 --unlock <email> <key>

System Information
  Operating System      Ubuntu 22.04.4 LTS
  Kernel                Linux 6.5.0-18-generic x86_64
  Model                 Default string Default string
  Motherboard           Default string Default string
  BIOS                  American Megatrends International, LLC. 5.27

CPU Information
  Name                  Intel N200
  Topology              1 Processor, 4 Cores
  Identifier             GenuineIntel Family 6 Model 190 Stepping 0
```

Base Frequency	3.70 GHz
L1 Instruction Cache	64.0 KB x 2
L1 Data Cache	32.0 KB x 2
L2 Cache	2.00 MB
L3 Cache	6.00 MB

Memory Information	
Size	15.4 GB

Single-Core

- Running File Compression
- Running Navigation
- Running HTML5 Browser
- Running PDF Renderer
- Running Photo Library
- Running Clang
- Running Text Processing
- Running Asset Compression
- Running Object Detection
- Running Background Blur
- Running Horizon Detection
- Running Object Remover
- Running HDR
- Running Photo Filter
- Running Ray Tracer
- Running Structure from Motion

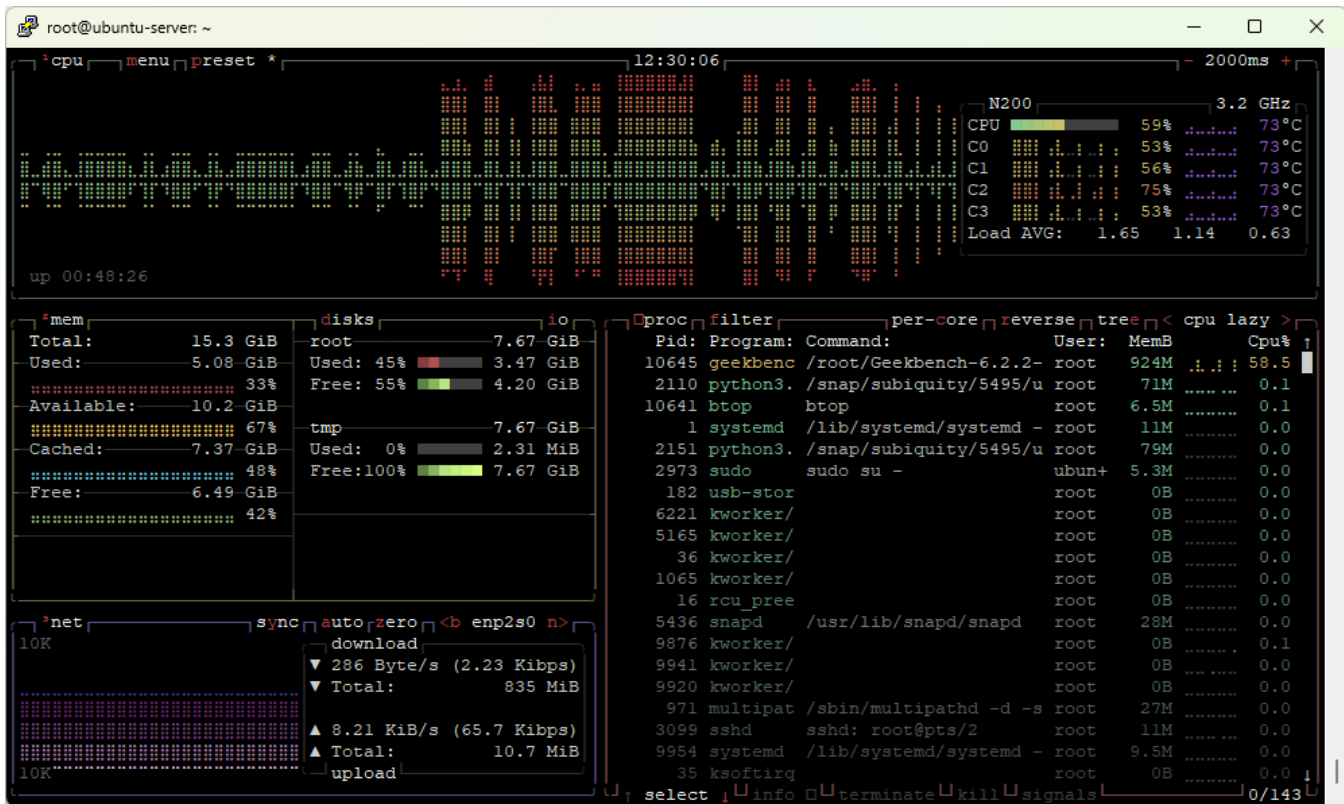
Multi-Core

- Running File Compression
- Running Navigation
- Running HTML5 Browser
- Running PDF Renderer
- Running Photo Library
- Running Clang
- Running Text Processing
- Running Asset Compression
- Running Object Detection
- Running Background Blur
- Running Horizon Detection
- Running Object Remover
- Running HDR
- Running Photo Filter
- Running Ray Tracer
- Running Structure from Motion

Uploading results to the Geekbench Browser. This could take a minute or two depending on the speed of your internet connection.

Upload succeeded. Visit the following link and view your results online:

<https://browser.geekbench.com/v6/cpu/5554104>



Compute test

```
wget -qO- https://packages.lunarg.com/lunarg-signing-key-pub.asc | sudo tee /etc/apt/trusted.gpg.d/lunarg.asc
sudo wget -qO /etc/apt/sources.list.d/lunarg-vulkan-jammy.list http://packages.lunarg.com/vulkan/lunarg-vulkan-jammy.list
sudo apt update
sudo apt install vulkan-sdk
```

```
./Geekbench-6.2.2-Linux/geekbench6 --gpu-list
./Geekbench-6.2.2-Linux/geekbench6 --gpu Vulkan
```

```
root@ubuntu-server:~# ./Geekbench-6.2.2-Linux/geekbench6 --gpu-list
Geekbench 6.2.2 : https://www.geekbench.com/
```

Geekbench 6 requires an active internet connection and automatically uploads benchmark results to the Geekbench Browser.

Upgrade to Geekbench 6 Pro to enable offline use and unlock other features:

<https://store.primatelabs.com/v6>

Enter your Geekbench 6 Pro license using the following command line:

```
./Geekbench-6.2.2-Linux/geekbench6 --unlock <email> <key>
```

```
Vulkan
0 0 Intel(R) Graphics (ADL-N)
0 1 llvmpipe (LLVM 15.0.7, 256 bits)
```

```
root@ubuntu-server:~# Geekbench-6.2.2-Linux/geekbench6 --gpu Vulkan
Geekbench 6.2.2 : https://www.geekbench.com/
```

Geekbench 6 requires an active internet connection and automatically uploads benchmark results to the Geekbench Browser.

Upgrade to Geekbench 6 Pro to enable offline use and unlock other features:

<https://store.primatelabs.com/v6>

Enter your Geekbench 6 Pro license using the following command line:

```
Geekbench-6.2.2-Linux/geekbench6 --unlock <email> <key>
```

System Information

Operating System	Ubuntu 22.04.4 LTS
Kernel	Linux 6.5.0-18-generic x86_64
Model	Default string Default string
Motherboard	Default string Default string
BIOS	American Megatrends International, LLC. 5.27

CPU Information

Name	Intel N200
Topology	1 Processor, 4 Cores
Identifier	GenuineIntel Family 6 Model 190 Stepping 0
Base Frequency	3.70 GHz
L1 Instruction Cache	64.0 KB x 2
L1 Data Cache	32.0 KB x 2
L2 Cache	2.00 MB
L3 Cache	6.00 MB

Memory Information

Size	15.4 GB
------	---------

Vulkan Information

Device Name	Intel(R) Graphics (ADL-N)
-------------	---------------------------

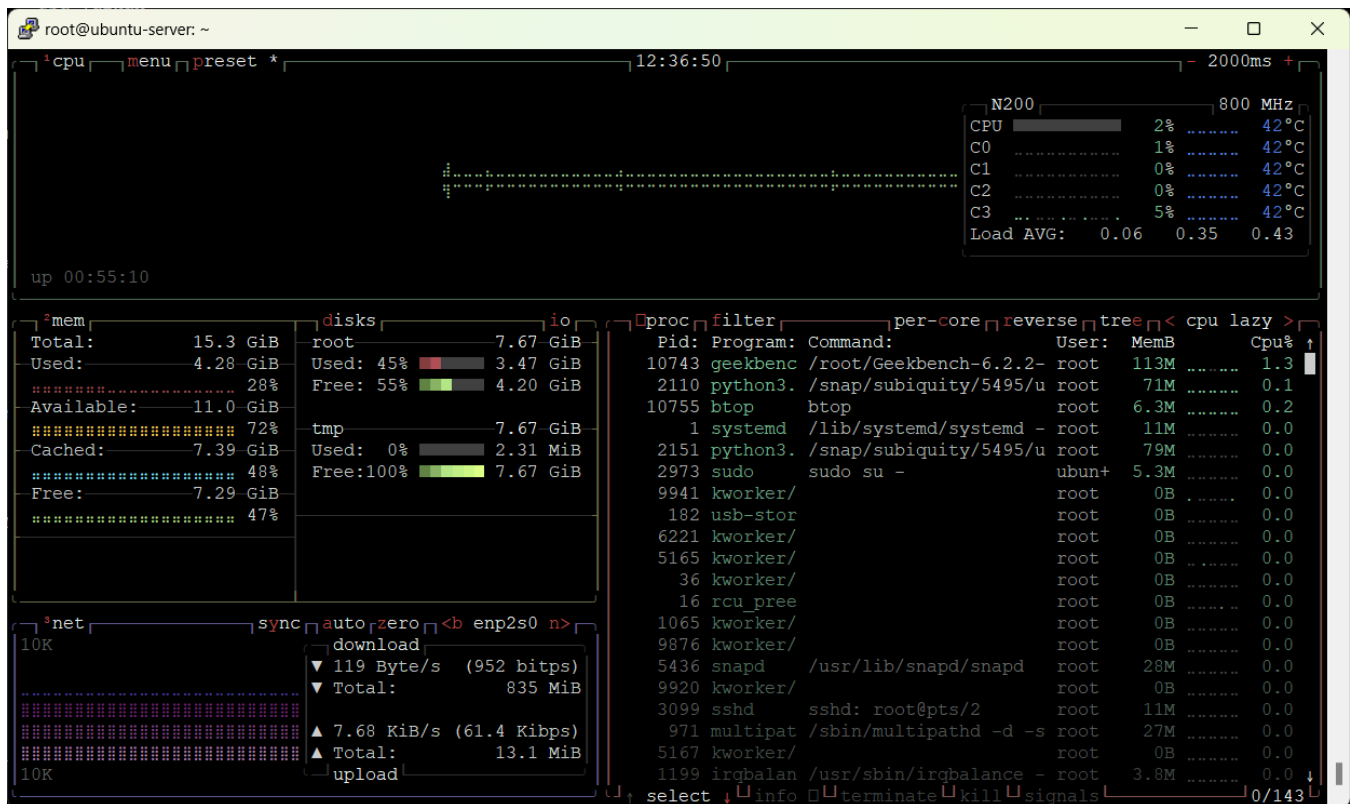
Vulkan

- Running Background Blur
- Running Face Detection
- Running Horizon Detection
- Running Edge Detection
- Running Gaussian Blur
- Running Feature Matching
- Running Stereo Matching
- Running Particle Physics

Uploading results to the Geekbench Browser. This could take a minute or two depending on the speed of your internet connection.

Upload succeeded. Visit the following link and view your results online:

<https://browser.geekbench.com/v6/compute/1995679>



Run Passmark Performance test 11

```
apt install libncurses5 unzip
wget https://www.passmark.com/downloads/pt_linux_x64.zip
unzip pt_linux_x64.zip
PerformanceTest/pt_linux_x64
```

```
root@ubuntu-server:~# cat /proc/cpuinfo
processor       : 0
vendor_id      : GenuineIntel
cpu family     : 6
model          : 190
model name     : Intel(R) N200
stepping       : 0
microcode     : 0x12
cpu MHz        : 800.237
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 4
cpu cores      : 4
apicid         : 8
initial apicid : 8
fpu            : yes
fpu_exception  : yes
cpuid level    : 32
wp             : yes
flags           : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx
fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl
xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3
sdbg fma cx16 xtpr pdcm sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm
abm 3dnowprefetch cpuid_fault epb cat_l2 cdp_l2 ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept
vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdt_a rdseed adx smap clflushopt clwb intel_pt
sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect avx_vnni dtherm ida arat pln pts hwp hwp_notify
```

```

hwp_act_window hwp_epp hwp_pkg_req vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq rdpid movdiri movdir64b
fsrm md_clear serialize arch_lbr ibt flush_lld arch_capabilities
vmx flags      : vnmi preemption_timer posted_intr invvpid ept_x_only ept_ad ept_lgb flexpriority apicv
tsc_offset vtpr mtf vpic ept vpid unrestricted_guest vpic_reg vid ple shadow_vmcs ept_mode_based_exec
tsc_scaling usr_wait_pause
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs
bogomips       : 1996.80
clflush size   : 64
cache_alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor      : 1
vendor_id     : GenuineIntel
cpu family    : 6
model         : 190
model name    : Intel(R) N200
stepping      : 0
microcode     : 0x12
cpu MHz       : 800.000
cache size    : 6144 KB
physical id    : 0
siblings      : 4
core id       : 5
cpu cores     : 4
apicid        : 10
initial apicid : 10
fpu           : yes
fpu_exception : yes
cpuid level    : 32
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx
fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl
xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3
sdbg fma cx16 xtpr pdcm sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm
abm 3dnowprefetch cpuid_fault epb cat_l2 cdp_l2 ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept
vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdt_a rdseed adx smap clflushopt clwb intel_pt
sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect avx_vnni dtherm ida arat pln pts hwp hwp_notify
hwp_act_window hwp_epp hwp_pkg_req vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq rdpid movdiri movdir64b
fsrm md_clear serialize arch_lbr ibt flush_lld arch_capabilities
vmx flags      : vnmi preemption_timer posted_intr invvpid ept_x_only ept_ad ept_lgb flexpriority apicv
tsc_offset vtpr mtf vpic ept vpid unrestricted_guest vpic_reg vid ple shadow_vmcs ept_mode_based_exec
tsc_scaling usr_wait_pause
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs
bogomips       : 1996.80
clflush size   : 64
cache_alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor      : 2
vendor_id     : GenuineIntel
cpu family    : 6
model         : 190
model name    : Intel(R) N200
stepping      : 0
microcode     : 0x12
cpu MHz       : 799.955
cache size    : 6144 KB
physical id    : 0
siblings      : 4
core id       : 6
cpu cores     : 4
apicid        : 12
initial apicid : 12
fpu           : yes
fpu_exception : yes
cpuid level    : 32
wp            : yes
flags         : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx
fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl

```

```

xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3
sdbg fma cx16 xtpr pdcm sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm
abm 3dnowprefetch cpuid_fault epb cat_l2 cdp_l2 ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept
vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdt_a rdseed adx smap clflushopt clwb intel_pt
sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect avx_vnni dtherm ida arat pln pts hwp hwp_notify
hwp_act_window hwp_epp hwp_pkg_req vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq rdpid movdiri movdir64b
fsrm md_clear serialize arch_lbr ibt flush_lld arch_capabilities
vmx flags      : vnmi preemption_timer posted_intr invvpid ept_x_only ept_ad ept_lgb flexpriority apicv
tsc_offset vtpr mtf vpic ept vpid unrestricted_guest vpic_reg vid ple shadow_vmcs ept_mode_based_exec
tsc_scaling usr_wait_pause
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs
bogomips       : 1996.80
clflush size   : 64
cache_alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

processor       : 3
vendor_id       : GenuineIntel
cpu family     : 6
model          : 190
model name      : Intel(R) N200
stepping       : 0
microcode      : 0x12
cpu MHz        : 800.016
cache size     : 6144 KB
physical id    : 0
siblings       : 4
core id        : 7
cpu cores      : 4
apicid         : 14
initial apicid : 14
fpu            : yes
fpu_exception   : yes
cpuid level    : 32
wp             : yes
flags          : fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx
fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl
xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3
sdbg fma cx16 xtpr pdcm sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm
abm 3dnowprefetch cpuid_fault epb cat_l2 cdp_l2 ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept
vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdt_a rdseed adx smap clflushopt clwb intel_pt
sha_ni xsaveopt xsavec xgetbv1 xsaves split_lock_detect avx_vnni dtherm ida arat pln pts hwp hwp_notify
hwp_act_window hwp_epp hwp_pkg_req vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq rdpid movdiri movdir64b
fsrm md_clear serialize arch_lbr ibt flush_lld arch_capabilities
vmx flags      : vnmi preemption_timer posted_intr invvpid ept_x_only ept_ad ept_lgb flexpriority apicv
tsc_offset vtpr mtf vpic ept vpid unrestricted_guest vpic_reg vid ple shadow_vmcs ept_mode_based_exec
tsc_scaling usr_wait_pause
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs
bogomips       : 1996.80
clflush size   : 64
cache_alignment : 64
address sizes   : 39 bits physical, 48 bits virtual
power management:

```

sensors


```
root@ubuntu-server:~# sensors
coretemp-isa-0000
Adapter: ISA adapter
Package id 0:  +37.0°C  (high = +105.0°C, crit = +105.0°C)
Core 4:        +37.0°C  (high = +105.0°C, crit = +105.0°C)
Core 5:        +37.0°C  (high = +105.0°C, crit = +105.0°C)
Core 6:        +37.0°C  (high = +105.0°C, crit = +105.0°C)
Core 7:        +37.0°C  (high = +105.0°C, crit = +105.0°C)

acpitz-acpi-0
Adapter: ACPI interface
temp1:         +27.8°C  (crit = +110.0°C)

nvme-pci-0300
Adapter: PCI adapter
Composite:     +53.9°C  (low  = -0.1°C, high = +79.8°C)
                    (crit = +89.8°C)
ERROR: Can't get value of subfeature temp2_min: I/O error
ERROR: Can't get value of subfeature temp2_max: I/O error
Sensor 1:      +56.9°C  (low  = +0.0°C, high = +0.0°C)
ERROR: Can't get value of subfeature temp3_min: I/O error
ERROR: Can't get value of subfeature temp3_max: I/O error
Sensor 2:      +48.9°C  (low  = +0.0°C, high = +0.0°C)
```

vainfo

```

root@ubuntu-server:~# vainfo
error: can't connect to X server!
libva info: VA-API version 1.14.0
libva info: Trying to open /usr/lib/x86_64-linux-gnu/dri/iHD_drv_video.so
libva info: Found init function __vaDriverInit_1_14
libva info: va_openDriver() returns 0
vainfo: VA-API version: 1.14 (libva 2.12.0)
vainfo: Driver version: Intel iHD driver for Intel(R) Gen Graphics - 22.3.1 ( )
vainfo: Supported profile and entrypoints
    VAProfileNone                : VAEntrypointVideoProc
    VAProfileNone                : VAEntrypointStats
    VAProfileMPEG2Simple         : VAEntrypointVLD
    VAProfileMPEG2Main          : VAEntrypointVLD
    VAProfileH264Main           : VAEntrypointVLD
    VAProfileH264Main           : VAEntrypointEncSliceLP
    VAProfileH264High           : VAEntrypointVLD
    VAProfileH264High           : VAEntrypointEncSliceLP
    VAProfileJPEGBaseline       : VAEntrypointVLD
    VAProfileJPEGBaseline       : VAEntrypointEncPicture
    VAProfileH264ConstrainedBaseline: VAEntrypointVLD
    VAProfileH264ConstrainedBaseline: VAEntrypointEncSliceLP
    VAProfileVP8Version0_3      : VAEntrypointVLD
    VAProfileHEVCMain           : VAEntrypointVLD
    VAProfileHEVCMain           : VAEntrypointEncSliceLP
    VAProfileHEVCMain10         : VAEntrypointVLD
    VAProfileHEVCMain10         : VAEntrypointEncSliceLP
    VAProfileVP9Profile0        : VAEntrypointVLD
    VAProfileVP9Profile0        : VAEntrypointEncSliceLP
    VAProfileVP9Profile1        : VAEntrypointVLD
    VAProfileVP9Profile1        : VAEntrypointEncSliceLP
    VAProfileVP9Profile2        : VAEntrypointVLD
    VAProfileVP9Profile2        : VAEntrypointEncSliceLP
    VAProfileVP9Profile3        : VAEntrypointVLD
    VAProfileVP9Profile3        : VAEntrypointEncSliceLP
    VAProfileHEVCMain12         : VAEntrypointVLD
    VAProfileHEVCMain422_10     : VAEntrypointVLD
    VAProfileHEVCMain422_12     : VAEntrypointVLD
    VAProfileHEVCMain444        : VAEntrypointVLD
    VAProfileHEVCMain444        : VAEntrypointEncSliceLP
    VAProfileHEVCMain444_10     : VAEntrypointVLD
    VAProfileHEVCMain444_10     : VAEntrypointEncSliceLP
    VAProfileHEVCMain444_12     : VAEntrypointVLD
    VAProfileHEVCSccMain        : VAEntrypointVLD
    VAProfileHEVCSccMain        : VAEntrypointEncSliceLP
    VAProfileHEVCSccMain10      : VAEntrypointVLD
    VAProfileHEVCSccMain10      : VAEntrypointEncSliceLP
    VAProfileHEVCSccMain444     : VAEntrypointVLD
    VAProfileHEVCSccMain444     : VAEntrypointEncSliceLP
    VAProfileAV1Profile0        : VAEntrypointVLD
    VAProfileHEVCSccMain444_10   : VAEntrypointVLD
    VAProfileHEVCSccMain444_10   : VAEntrypointEncSliceLP

```

media non-free

```

root@ubuntu-server:~# vainfo
error: can't connect to X server!
libva info: VA-API version 1.14.0
libva info: Trying to open /usr/lib/x86_64-linux-gnu/dri/iHD_drv_video.so
libva info: Found init function __vaDriverInit_1_14
libva info: va_openDriver() returns 0
vainfo: VA-API version: 1.14 (libva 2.12.0)
vainfo: Driver version: Intel iHD driver for Intel(R) Gen Graphics - 22.3.1 ()
vainfo: Supported profile and entrypoints
    VAProfileNone                : VAEntrypointVideoProc
    VAProfileNone                : VAEntrypointStats
    VAProfileMPEG2Simple          : VAEntrypointVLD
    VAProfileMPEG2Simple          : VAEntrypointEncSlice
    VAProfileMPEG2Main           : VAEntrypointVLD
    VAProfileMPEG2Main           : VAEntrypointEncSlice
    VAProfileH264Main            : VAEntrypointVLD
    VAProfileH264Main            : VAEntrypointEncSlice
    VAProfileH264Main            : VAEntrypointFEI
    VAProfileH264Main            : VAEntrypointEncSliceLP
    VAProfileH264High            : VAEntrypointVLD
    VAProfileH264High            : VAEntrypointEncSlice
    VAProfileH264High            : VAEntrypointFEI
    VAProfileH264High            : VAEntrypointEncSliceLP
    VAProfileVC1Simple           : VAEntrypointVLD
    VAProfileVC1Main             : VAEntrypointVLD
    VAProfileVC1Advanced          : VAEntrypointVLD
    VAProfileJPEGBaseline         : VAEntrypointVLD
    VAProfileJPEGBaseline         : VAEntrypointEncPicture
    VAProfileH264ConstrainedBaseline: VAEntrypointVLD
    VAProfileH264ConstrainedBaseline: VAEntrypointEncSlice
    VAProfileH264ConstrainedBaseline: VAEntrypointFEI
    VAProfileH264ConstrainedBaseline: VAEntrypointEncSliceLP
    VAProfileVP8Version0_3        : VAEntrypointVLD
    VAProfileHEVCMMain           : VAEntrypointVLD
    VAProfileHEVCMMain           : VAEntrypointEncSlice
    VAProfileHEVCMMain           : VAEntrypointFEI
    VAProfileHEVCMMain           : VAEntrypointEncSliceLP
    VAProfileHEVCMMain10         : VAEntrypointVLD
    VAProfileHEVCMMain10         : VAEntrypointEncSlice
    VAProfileHEVCMMain10         : VAEntrypointEncSliceLP
    VAProfileVP9Profile0         : VAEntrypointVLD
    VAProfileVP9Profile0         : VAEntrypointEncSliceLP
    VAProfileVP9Profile1         : VAEntrypointVLD
    VAProfileVP9Profile1         : VAEntrypointEncSliceLP
    VAProfileVP9Profile2         : VAEntrypointVLD
    VAProfileVP9Profile2         : VAEntrypointEncSliceLP
    VAProfileVP9Profile3         : VAEntrypointVLD
    VAProfileVP9Profile3         : VAEntrypointEncSliceLP
    VAProfileHEVCMMain12         : VAEntrypointVLD
    VAProfileHEVCMMain12         : VAEntrypointEncSlice
    VAProfileHEVCMMain422_10     : VAEntrypointVLD
    VAProfileHEVCMMain422_10     : VAEntrypointEncSlice
    VAProfileHEVCMMain422_12     : VAEntrypointVLD
    VAProfileHEVCMMain422_12     : VAEntrypointEncSlice
    VAProfileHEVCMMain444        : VAEntrypointVLD
    VAProfileHEVCMMain444        : VAEntrypointEncSliceLP
    VAProfileHEVCMMain444_10     : VAEntrypointVLD
    VAProfileHEVCMMain444_10     : VAEntrypointEncSliceLP
    VAProfileHEVCMMain444_12     : VAEntrypointVLD
    VAProfileHEVCSccMain         : VAEntrypointVLD
    VAProfileHEVCSccMain         : VAEntrypointEncSliceLP
    VAProfileHEVCSccMain10       : VAEntrypointVLD
    VAProfileHEVCSccMain10       : VAEntrypointEncSliceLP
    VAProfileHEVCSccMain444      : VAEntrypointVLD
    VAProfileHEVCSccMain444      : VAEntrypointEncSliceLP
    VAProfileAV1Profile0         : VAEntrypointVLD
    VAProfileHEVCSccMain444_10   : VAEntrypointVLD
    VAProfileHEVCSccMain444_10   : VAEntrypointEncSliceLP

```

Basic server info

```
root@ubuntu-server:~# curl https://raw.githubusercontent.com/oliut/linux-qa/master/qal.py 2>/dev/null |python3
=====
                        qal.py 0.2-020 (2022-06-15)
=====
NAME:   ubuntu-server
DATE:   2024-04-01 12:57 (UTC)
UPTIME: 01:15 (0.02880859375, 0.12890625, 0.291015625)
OS:     Ubuntu 22.04 jammy
KERNEL: Linux-6.5.0-18-generic-x86_64-with-glibc2.35
=====[HARDWARE]=====
SERVER: Default string Default string
BIOS:   American Megatrends International, LLC. 5.27 (07/19/2023)
SERIAL: Default string
CPU:    1xIntel(R) N200 [ C:4 / T:4 ]
MEM:    15.4 GB
SWAP:   0.0 KB
DISK:   nvme0n1 238.5 GB
DISK:   sda 14.5 GB
NET:    enp2s0 2500/full(up) TX: 17.0 MB RX: 841.4 MB
```

nvme disk info

```
root@ubuntu-server:~# smartctl -a /dev/nvme0n1
smartctl 7.2 2020-12-30 r5155 [x86_64-linux-6.5.0-18-generic] (local build)
Copyright (C) 2002-20, Bruce Allen, Christian Franke, www.smartmontools.org
```

=== START OF INFORMATION SECTION ===

```
Model Number:                YMTC YMSS1ED04B21MC
Serial Number:               YMA1256JA224360221
Firmware Version:            LN015216
PCI Vendor/Subsystem ID:     0x1e49
IEEE OUI Identifier:         0xa428b7
Total NVM Capacity:          256,060,514,304 [256 GB]
Unallocated NVM Capacity:    0
Controller ID:               1
NVMe Version:                1.3
Number of Namespaces:        1
Namespace 1 Size/Capacity:   256,060,514,304 [256 GB]
Namespace 1 Utilization:     670,670,848 [670 MB]
Namespace 1 Formatted LBA Size: 512
Namespace 1 IEEE EUI-64:     a428b7 3333050048
Local Time is:               Mon Apr 1 12:58:31 2024 UTC
Firmware Updates (0x14):     2 Slots, no Reset required
Optional Admin Commands (0x017): Security Format Frmw_DL Self_Test
Optional NVM Commands (0x005f): Comp Wr_Unc DS_Mngmt Wr_Zero Sav/Sel_Feat Timestmp
Log Page Attributes (0x0f):  S/H_per_NS Cmd_Eff_Lg Ext_Get_Lg Telmtry_Lg
Maximum Data Transfer Size:  32 Pages
Warning Comp. Temp. Threshold: 80 Celsius
Critical Comp. Temp. Threshold: 90 Celsius
```

Supported Power States

St	Op	Max	Active	Idle	RL	RT	WL	WT	Ent_Lat	Ex_Lat
0	+	9.00W	-	-	0	0	0	0	0	0
1	+	4.60W	-	-	1	1	1	1	0	0
2	+	3.80W	-	-	2	2	2	2	0	0
3	-	0.0450W	-	-	3	3	3	3	2000	2000
4	-	0.0040W	-	-	4	4	4	4	15000	15000

Supported LBA Sizes (NSID 0x1)

Id	Fmt	Data	Metadt	Rel_Perf
0	+	512	0	0

=== START OF SMART DATA SECTION ===

SMART overall-health self-assessment test result: PASSED

SMART/Health Information (NVMe Log 0x02)

```
Critical Warning:            0x00
Temperature:                 57 Celsius
Available Spare:              100%
Available Spare Threshold:    10%
Percentage Used:              0%
Data Units Read:              591 [302 MB]
Data Units Written:           1,332 [681 MB]
Host Read Commands:           10,706
Host Write Commands:          11,739
Controller Busy Time:         0
Power Cycles:                  6
Power On Hours:                1
Unsafe Shutdowns:              1
Media and Data Integrity Errors: 0
Error Information Log Entries: 0
Warning Comp. Temperature Time: 0
Critical Comp. Temperature Time: 0
Temperature Sensor 1:         57 Celsius
Temperature Sensor 2:         51 Celsius
```

Error Information (NVMe Log 0x01, 16 of 256 entries)

No Errors Logged

