



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant ML30 Gen11

(3.10 GHz, Intel Xeon 6377P)

SPECspeed®2026\_int\_base = 3.16

SPECspeed®2026\_int\_peak = 3.23

CPU2026 License: 3

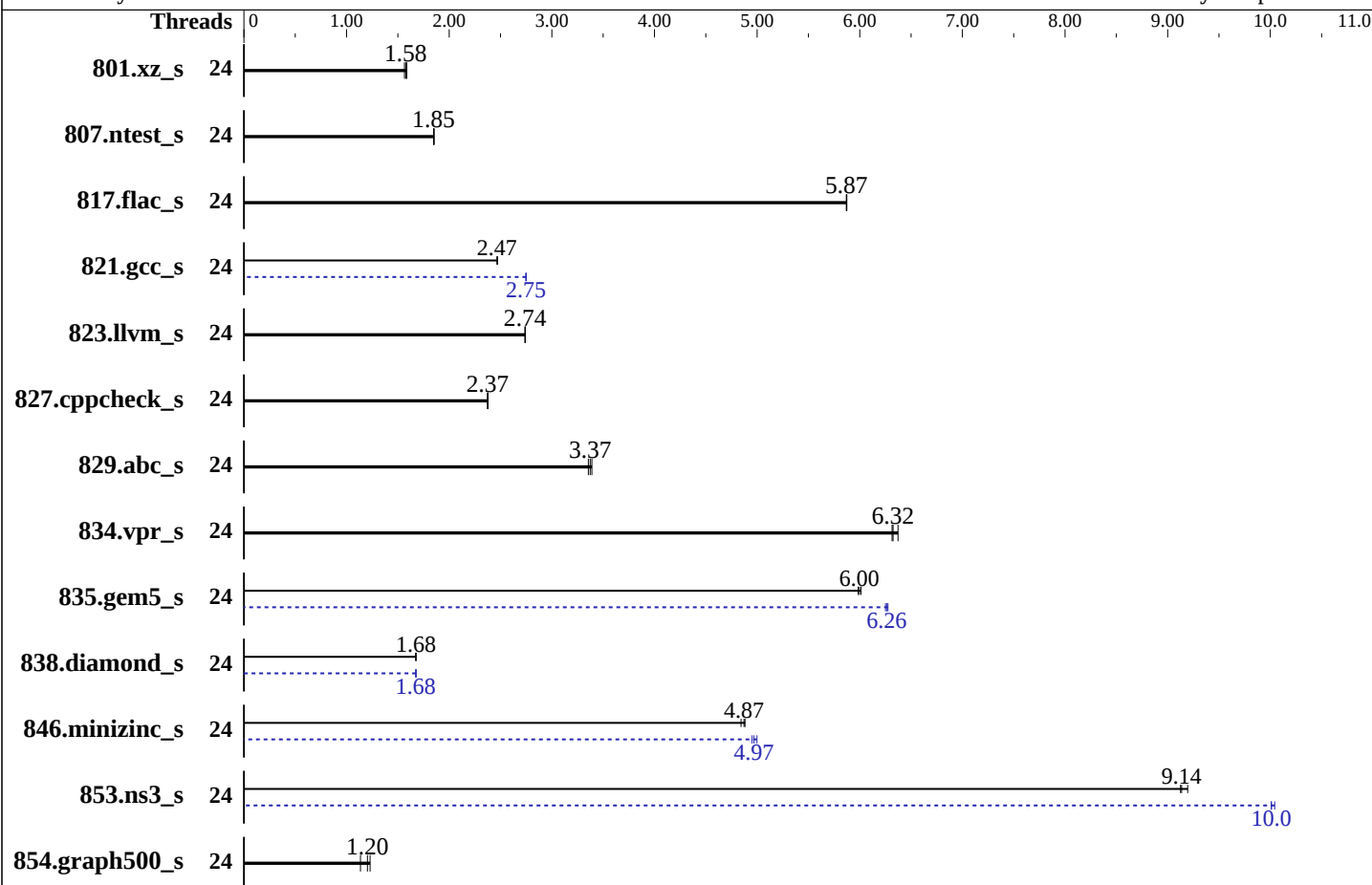
Test Sponsor: HPE

Tested by: HPE

Test Date: Jul-2026

Hardware Availability: Sep-2026

Software Availability: Apr-2026



## Hardware

CPU Name: Intel Xeon 6377P  
Max MHz: 5700  
Nominal: 3100  
Enabled: 12 cores, 1 chip, 2 threads/core  
Orderable: 1 Chip  
Cache L1: 32 KB I + 48 KB D on chip per core  
L2: 2 MB I+D on chip per core  
L3: 36 MB I+D on chip per chip  
Other: None  
Memory: 64 GB (2 x 32 GB 2Rx8 PC5-5600B-E, running at 4400)  
Storage: 1 x 480 GB NVMe SSD  
Cooling: Air  
Other: None

## Software

OS: SUSE Linux Enterprise Server 15 SP7  
Kernel 6.4.0-150700.53.6-default  
Compiler: C/C++: Version 2026.0 of Intel oneAPI DPC++/C++ Compiler for Linux;  
Fortran: Version 2026.0 of Intel Fortran Compiler for Linux  
Compiler Category: Vendor  
Firmware: HPE BIOS Version v2.50 06/25/2026 released Jun-2026  
File System: btrfs  
System State: Run level 3 (multi-user)  
Base Pointers: 64-bit  
Peak Pointers: 64-bit  
Other: jemalloc memory allocator v5.3  
Power Management: BIOS set to prefer performance at the cost of additional power usage



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## Results Table

| Benchmark      | Base    |            |             |            |             |            |             | Peak    |            |             |            |             |            |             |
|----------------|---------|------------|-------------|------------|-------------|------------|-------------|---------|------------|-------------|------------|-------------|------------|-------------|
|                | Threads | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       | Threads | Seconds    | Ratio       | Seconds    | Ratio       | Seconds    | Ratio       |
| 801.xz_s       | 24      | 378        | 1.56        | <u>375</u> | <u>1.58</u> | 372        | 1.59        | 24      | 378        | 1.56        | <u>375</u> | <u>1.58</u> | 372        | 1.59        |
| 807.ntest_s    | 24      | 615        | 1.85        | <u>617</u> | <u>1.85</u> | 617        | 1.85        | 24      | 615        | 1.85        | <u>617</u> | <u>1.85</u> | 617        | 1.85        |
| 817.flac_s     | 24      | <u>296</u> | <u>5.87</u> | 296        | 5.87        | 296        | 5.87        | 24      | <u>296</u> | <u>5.87</u> | 296        | 5.87        | 296        | 5.87        |
| 821.gcc_s      | 24      | <u>839</u> | <u>2.47</u> | 838        | 2.47        | 839        | 2.47        | 24      | <u>753</u> | <u>2.75</u> | 753        | 2.75        | 753        | 2.75        |
| 823.llvm_s     | 24      | 515        | 2.74        | 515        | 2.74        | <u>515</u> | <u>2.74</u> | 24      | 515        | 2.74        | 515        | 2.74        | <u>515</u> | <u>2.74</u> |
| 827.cppcheck_s | 24      | 471        | 2.37        | <u>471</u> | <u>2.37</u> | 471        | 2.38        | 24      | 471        | 2.37        | <u>471</u> | <u>2.37</u> | 471        | 2.38        |
| 829.abc_s      | 24      | 248        | 3.36        | 245        | 3.39        | <u>246</u> | <u>3.37</u> | 24      | 248        | 3.36        | 245        | 3.39        | <u>246</u> | <u>3.37</u> |
| 834.vpr_s      | 24      | <u>151</u> | <u>6.32</u> | 151        | 6.32        | 150        | 6.37        | 24      | <u>151</u> | <u>6.32</u> | 151        | 6.32        | 150        | 6.37        |
| 835.gem5_s     | 24      | <u>190</u> | <u>6.00</u> | 189        | 6.01        | 190        | 5.98        | 24      | 182        | 6.27        | <u>182</u> | <u>6.26</u> | 182        | 6.25        |
| 838.diamond_s  | 24      | 597        | 1.68        | <u>597</u> | <u>1.68</u> | 598        | 1.67        | 24      | 598        | 1.68        | 597        | 1.68        | <u>597</u> | <u>1.68</u> |
| 846.minizinc_s | 24      | 138        | 4.84        | <u>138</u> | <u>4.87</u> | 137        | 4.88        | 24      | <u>135</u> | <u>4.97</u> | 135        | 4.95        | 134        | 5.00        |
| 853.ns3_s      | 24      | 125        | 9.19        | <u>126</u> | <u>9.14</u> | 126        | 9.12        | 24      | 115        | 10.0        | 115        | 10.0        | <u>115</u> | <u>10.0</u> |
| 854.graph500_s | 24      | 538        | 1.14        | <u>508</u> | <u>1.20</u> | 497        | 1.23        | 24      | 538        | 1.14        | <u>508</u> | <u>1.20</u> | 497        | 1.23        |

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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Transparent Huge Pages enabled by default

Prior to runcpu invocation

Filesystem page cache synced and cleared with:

sync; echo 3> /proc/sys/vm/drop\_caches

tuned-adm profile was set to balanced using 'tuned-adm profile balanced'

## Environment Variables Notes

Environment variables set by runcpu before the start of the run:

KMP\_AFFINITY = "granularity=fine,scatter"

LD\_LIBRARY\_PATH = "/home/cpu2026/lib"

MALLOC\_CONF = "retain:true"

OMP\_STACKSIZE = "192M"

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using CentOS Stream 9.

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1)

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## General Notes (Continued)

is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

jemalloc, a general purpose malloc implementation

built with the CentOS Stream 9, and the system compiler gcc 11.5.0

sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

## Platform Notes

BIOS Configurations : Parameters are selected in the order shown below

Workload Profile set to General Peak Frequency Compute

Thermal Configuration set to Maximum Cooling

Enhanced Processor Performance Profile set to Enabled

Workload Profile set to Custom

Power Regulator set to Dynamic Power Savings Mode

Sysinfo program /home/cpu2026/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Wed Jul 15 10:37:24 2026

SUT (System Under Test) info as seen by some common utilities.

### Table of contents

1. uname -srv
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 254 (254.27+suse.167.g130293e510)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. tuned-adm active
16. sysctl
17. /sys/kernel/mm/transparent\_hugepage
18. /sys/kernel/mm/transparent\_hugepage/khugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id

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## Platform Notes (Continued)

22. dmidecode

23. BIOS

1. uname -srvrn

Linux 6.4.0-150700.53.6-default #1 SMP PREEMPT\_DYNAMIC Tue Jul 1 14:54:47 UTC 2025 (8ab7501) x86\_64

2. w

10:37:24 up 3 min, 3 users, load average: 0.09, 0.08, 0.03

| USER | TTY   | FROM         | LOGIN@ | IDLE   | JCPU  | PCPU  | WHAT  |
|------|-------|--------------|--------|--------|-------|-------|-------|
| root | pts/0 | 172.16.0.100 | 10:35  | 28.00s | 0.74s | 0.00s | -bash |

3. Username

From environment variable \$USER: root

4. ulimit -a

|                      |                 |           |
|----------------------|-----------------|-----------|
| core file size       | (blocks, -c)    | unlimited |
| data seg size        | (kbytes, -d)    | unlimited |
| scheduling priority  | (-e)            | 0         |
| file size            | (blocks, -f)    | unlimited |
| pending signals      | (-i)            | 256683    |
| max locked memory    | (kbytes, -l)    | 8192      |
| max memory size      | (kbytes, -m)    | unlimited |
| open files           | (-n)            | 1024      |
| pipe size            | (512 bytes, -p) | 8         |
| POSIX message queues | (bytes, -q)     | 819200    |
| real-time priority   | (-r)            | 0         |
| stack size           | (kbytes, -s)    | unlimited |
| cpu time             | (seconds, -t)   | unlimited |
| max user processes   | (-u)            | 256683    |
| virtual memory       | (kbytes, -v)    | unlimited |
| file locks           | (-x)            | unlimited |

5. sysinfo process ancestry

/usr/lib/systemd/systemd --switched-root --system --deserialize=42

sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups

sshd: root [priv]

sshd: root@pts/0

-bash

-bash

runcpu --nobuild --reportable --action validate --define default-platform-flags -c

ic2026.0-core-avx2-cpu2026-1.0.1-speed-20260429.cfg --iterations=3 --threads 24 --define cores=24 --tune

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## Platform Notes (Continued)

```
base,peak -o all --define intsppedaffinity --define drop_caches intspped
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
ic2026.0-core-avx2-cpu2026-1.0.1-speed-20260429.cfg --iterations 3 --threads 24 --define cores=24 --tune
base,peak --output_format all --define intsppedaffinity --define drop_caches --nopower --runmode speed
--tune base:peak --size refspped intspped --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.008/templogs/preenv.intspped.008.0.log --lognum 008.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026
```

### 6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6377P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 183
stepping        : 1
microcode       : 0x137
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
cpu cores       : 12
siblings        : 24
1 physical ids (chips)
24 processors (hardware threads)
physical id 0: core ids 0-11
physical id 0: apicids 0-23
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

### 7. lscpu

From lscpu from util-linux 2.40.4:

```
Architecture:    x86_64
CPU op-mode(s):  32-bit, 64-bit
Address sizes:    46 bits physical, 48 bits virtual
Byte Order:      Little Endian
CPU(s):          24
On-line CPU(s) list: 0-23
Vendor ID:       GenuineIntel
Model name:      Intel(R) Xeon(R) 6377P
CPU family:      6
Model:           183
Thread(s) per core: 2
Core(s) per socket: 12
Socket(s):       1
Stepping:        1
CPU(s) scaling MHz: 14%
CPU max MHz:     5700.0000
```

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## Platform Notes (Continued)

CPU min MHz: 800.0000  
BogoMIPS: 6220.80  
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 smx 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 ssbd ibrs ibpb stibp ibrs\_enhanced tpr\_shadow flexpriority ept vpid ept\_ad fsgsbase tsc\_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap clflushopt clwb intel\_pt sha\_ni xsaveopt xsavec xgetbv1 xsaves split\_lock\_detect user\_shstk avx\_vnni dtherm ida arat pln pts hwp hwp\_notify hwp\_act\_window hwp\_epp hwp\_pkg\_req hfi vnmi umip pku ospke waitpkg gfni vaes vpclmulqdq tme rdpid movdiri movdir64b fsrm md\_clear serialize pconfig arch\_lbr ibt flush\_l1d arch\_capabilities

Virtualization: VT-x  
L1d cache: 576 KiB (12 instances)  
L1i cache: 384 KiB (12 instances)  
L2 cache: 24 MiB (12 instances)  
L3 cache: 36 MiB (1 instance)  
NUMA node(s): 1  
NUMA node0 CPU(s): 0-23  
Vulnerability Gather data sampling: Not affected  
Vulnerability Indirect target selection: Not affected  
Vulnerability Itlb multihit: Not affected  
Vulnerability L1tf: Not affected  
Vulnerability Mds: Not affected  
Vulnerability Meltdown: Not affected  
Vulnerability Mmio stale data: Not affected  
Vulnerability Reg file data sampling: Not affected  
Vulnerability Retbleed: Not affected  
Vulnerability Spec rstack overflow: Not affected  
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl  
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; PBRSE-eIBRS SW sequence; BHI BHI\_DIS\_S  
Vulnerability Srbds: Not affected  
Vulnerability Tsx async abort: Not affected

From lscpu --cache:

| NAME | ONE-SIZE | ALL-SIZE | WAYS | TYPE        | LEVEL | SETS | PHY-LINE | COHERENCY-SIZE |
|------|----------|----------|------|-------------|-------|------|----------|----------------|
| L1d  | 48K      | 576K     | 12   | Data        | 1     | 64   | 1        | 64             |
| L1i  | 32K      | 384K     | 8    | Instruction | 1     | 64   | 1        | 64             |
| L2   | 2M       | 24M      | 16   | Unified     | 2     | 2048 | 1        | 64             |

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## Platform Notes (Continued)

L3 36M 36M 12 Unified 3 49152 1 64

8. numactl --hardware

NOTE: a numactl 'node' might or might not correspond to a physical chip.

available: 1 nodes (0)

node 0 cpus: 0-23

node 0 size: 64200 MB

node 0 free: 63431 MB

node distances:

node 0

0: 10

9. /proc/meminfo

MemTotal: 65740908 kB

10. who -r

run-level 3 Jul 15 10:34

11. Systemd service manager version: systemd 254 (254.27+suse.167.g130293e510)

Default Target Status

multi-user running

12. Services, from systemctl list-unit-files

STATE UNIT FILES

enabled ModemManager YaST2-Firstboot YaST2-Second-Stage apparmor appstream-sync-cache auditd  
bluetooth cron display-manager getty@ irqbalance issue-generator kbdsettings klog  
lvm2-monitor nsd postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore tuned  
wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny wpa\_supplicant

enabled-runtime systemd-remount-fs

disabled NetworkManager NetworkManager-dispatcher NetworkManager-wait-online accounts-daemon autofs  
autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl ca-certificates  
chrony-wait chronyd console-getty cups cups-browsed debug-shell dnsmasq ebttables  
exchange-bmc-os-info firewalld fsidd gnome-remote-desktop gpm grub2-once haveged  
hwloc-dump-hwdata ipmi ipmievd issue-add-ssh-keys kexec-load lunmask man-db-create  
multipathd nfs nfs-blkmap nmb openvpn@ ostree-remount ostree-state-overlay@ rpcbind  
rpmconfigcheck rsyncd rtkit-daemon samba-bgqd serial-getty@ smartd\_generate\_opts smb snmpd  
snmptrapd speech-dispatcherd systemd-boot-check-no-failures systemd-confext  
systemd-network-generator systemd-sysextd systemd-time-wait-sync systemd-timesyncd udisks2  
update-system-flatpaks upower vncserver@ wpa\_supplicant@

indirect pcsd saned@ systemd-userdbd wickedd

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## Platform Notes (Continued)

13. Linux kernel boot-time arguments, from /proc/cmdline

BOOT\_IMAGE=/boot/vmlinuz-6.4.0-150700.53.6-default

root=UUID=70dbac34-bb46-42e2-9847-7538dedaea79

splash=silent

mitigations=auto

quiet

security=apparmor

-----  
14. cpupower frequency-info

analyzing CPU 18:

current policy: frequency should be within 800 MHz and 5.70 GHz.

The governor "powersave" may decide which speed to use  
within this range.

boost state support:

Supported: yes

Active: yes

-----  
15. tuned-adm active

Current active profile: balanced

-----  
16. sysctl

kernel.numa\_balancing 0

kernel.randomize\_va\_space 2

vm.compaction\_proactiveness 20

vm.dirty\_background\_bytes 0

vm.dirty\_background\_ratio 10

vm.dirty\_bytes 0

vm.dirty\_expire\_centisecs 3000

vm.dirty\_ratio 20

vm.dirty\_writeback\_centisecs 500

vm.dirtytime\_expire\_seconds 43200

vm.extfrag\_threshold 500

vm.min\_unmapped\_ratio 1

vm.nr\_hugepages 0

vm.nr\_hugepages\_mempolicy 0

vm.nr\_overcommit\_hugepages 0

vm.swappiness 60

vm.watermark\_boost\_factor 15000

vm.watermark\_scale\_factor 10

vm.zone\_reclaim\_mode 0

-----  
17. /sys/kernel/mm/transparent\_hugepage

defrag always defer defer+madvise [madvise] never

(Continued on next page)



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## Platform Notes (Continued)

enabled [always] madvise never  
hpage\_pmd\_size 2097152  
shmem\_enabled always within\_size advise [never] deny force

### 18. /sys/kernel/mm/transparent\_hugepage/khugepaged

alloc\_sleep\_millisecs 60000  
defrag 1  
max\_ptes\_none 511  
max\_ptes\_shared 256  
max\_ptes\_swap 64  
pages\_to\_scan 4096  
scan\_sleep\_millisecs 10000

### 19. OS release

From /etc/\*-release /etc/\*-version  
os-release SUSE Linux Enterprise Server 15 SP7

### 20. Disk information

SPEC is set to: /home/cpu2026

| Filesystem | Type  | Size | Used | Avail | Use% | Mounted on |
|------------|-------|------|------|-------|------|------------|
| /dev/sda2  | btrfs | 447G | 138G | 306G  | 32%  | /home      |

### 21. /sys/devices/virtual/dmi/id

Vendor: HPE  
Product: ProLiant ML30 Gen11  
Product Family: ProLiant  
Serial: LXVBT01BVHZ03N

### 22. dmidecode

Additional information from dmidecode 3.6 follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

Memory:

2x Hynix HMC888AGBEA084N 32 GB 2 rank 5600, configured at 4400

### 23. BIOS

(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: HPE  
BIOS Version: 2.50

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## Platform Notes (Continued)

BIOS Date: 06/25/2026

BIOS Revision: 2.50

Firmware Revision: 1.62

## Compiler Version Notes

=====  
C | 854.graph500\_s(base, peak)  
-----

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,  
Version 2026.0.0 Build 20260331  
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.  
-----

=====  
C++ | 807.ntest\_s(base, peak) 827.cppcheck\_s(base, peak) 853.ns3\_s(base,  
| peak)  
-----

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,  
Version 2026.0.0 Build 20260331  
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=====  
C++, C | 801.xz\_s(base, peak) 817.flac\_s(base, peak) 821.gcc\_s(base, peak)  
| 823.llvm\_s(base, peak) 829.abc\_s(base, peak) 834.vpr\_s(base, peak)  
| 835.gem5\_s(base, peak) 838.diamond\_s(base, peak)  
| 846.minizinc\_s(base, peak)  
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## Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx



# SPEC CPU®2026 Integer Speed Result

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**Hewlett Packard Enterprise**

(Test Sponsor: HPE)

ProLiant ML30 Gen11

(3.10 GHz, Intel Xeon 6377P)

SPECspeed®2026\_int\_base = 3.16

SPECspeed®2026\_int\_peak = 3.23

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Jul-2026

Hardware Availability: Sep-2026

Software Availability: Apr-2026

## Base Portability Flags

834.vpr\_s: -fno-fast-math

## Base Optimization Flags

C benchmarks:

-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500  
-xCORE-AVX2 -O3 -ffp-model=fast -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -fno-strict-aliasing -fiopenmp -DSPEC\_OPENMP  
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

C++ benchmarks:

-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500  
-xCORE-AVX2 -O3 -ffp-model=fast -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -pthread -fiopenmp -DSPEC\_OPENMP  
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -Wl,-z,muldefs  
-Wl,-plugin-opt=-inline-threshold=1500 -xCORE-AVX2 -O3 -ffp-model=fast  
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4  
-fno-strict-aliasing -fiopenmp -DSPEC\_OPENMP -pthread  
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

## Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

## Peak Portability Flags

834.vpr\_s: -fno-fast-math



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**Test Sponsor:** HPE

**Tested by:** HPE

**Test Date:** Jul-2026

**Hardware Availability:** Sep-2026

**Software Availability:** Apr-2026

## Peak Optimization Flags

C benchmarks:

854.graph500\_s: basepeak = yes

C++ benchmarks:

807.ntest\_s: basepeak = yes

827.cppcheck\_s: basepeak = yes

853.ns3\_s: -m64 -std=c++17 -Wl, -z, muldefs  
-Wl, -plugin-opt=-inline-threshold=1500  
-fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2  
-ffp-model=fast -flto -qopt-mem-layout-trans=4 -O3  
-mfpmath=sse -funroll-loops -pthread -fiopenmp  
-DSPEC\_OPENMP -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Benchmarks using both C and C++:

801.xz\_s: basepeak = yes

817.flac\_s: basepeak = yes

821.gcc\_s: -m64 -std=c++17 -std=c18 -Wl, -z, muldefs  
-fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2  
-ffp-model=fast -flto -qopt-mem-layout-trans=4 -O3  
-mfpmath=sse -funroll-loops -fno-strict-aliasing -fiopenmp  
-DSPEC\_OPENMP -pthread -L/usr/local/jemalloc-5.3.0/lib  
-ljemalloc

823.llvm\_s: basepeak = yes

829.abc\_s: basepeak = yes

834.vpr\_s: basepeak = yes

835.gem5\_s: -m64 -std=c++17 -std=c18 -Wl, -z, muldefs  
-Wl, -plugin-opt=-inline-threshold=1500  
-fprofile-generate(pass 1)  
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2  
-ffp-model=fast -flto -qopt-mem-layout-trans=4 -O3  
-mfpmath=sse -funroll-loops -fno-strict-aliasing -fiopenmp  
-DSPEC\_OPENMP -pthread -L/usr/local/jemalloc-5.3.0/lib  
-ljemalloc

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## Peak Optimization Flags (Continued)

838.diamond\_s: Same as 835.gem5\_s

846.minizinc\_s: Same as 835.gem5\_s

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.html>

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-CatlowRefresh-rev1.0.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.xml>

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-CatlowRefresh-rev1.0.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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