



# SPEC CPU®2026 Integer Speed Result

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## Hewlett Packard Enterprise

(Test Sponsor: HPE)

### ProLiant Compute DL325 Gen12 (2.70 GHz, AMD EPYC 9755)

SPECspeed®2026\_int\_base = 6.69

SPECspeed®2026\_int\_peak = 6.69

CPU2026 License: 3

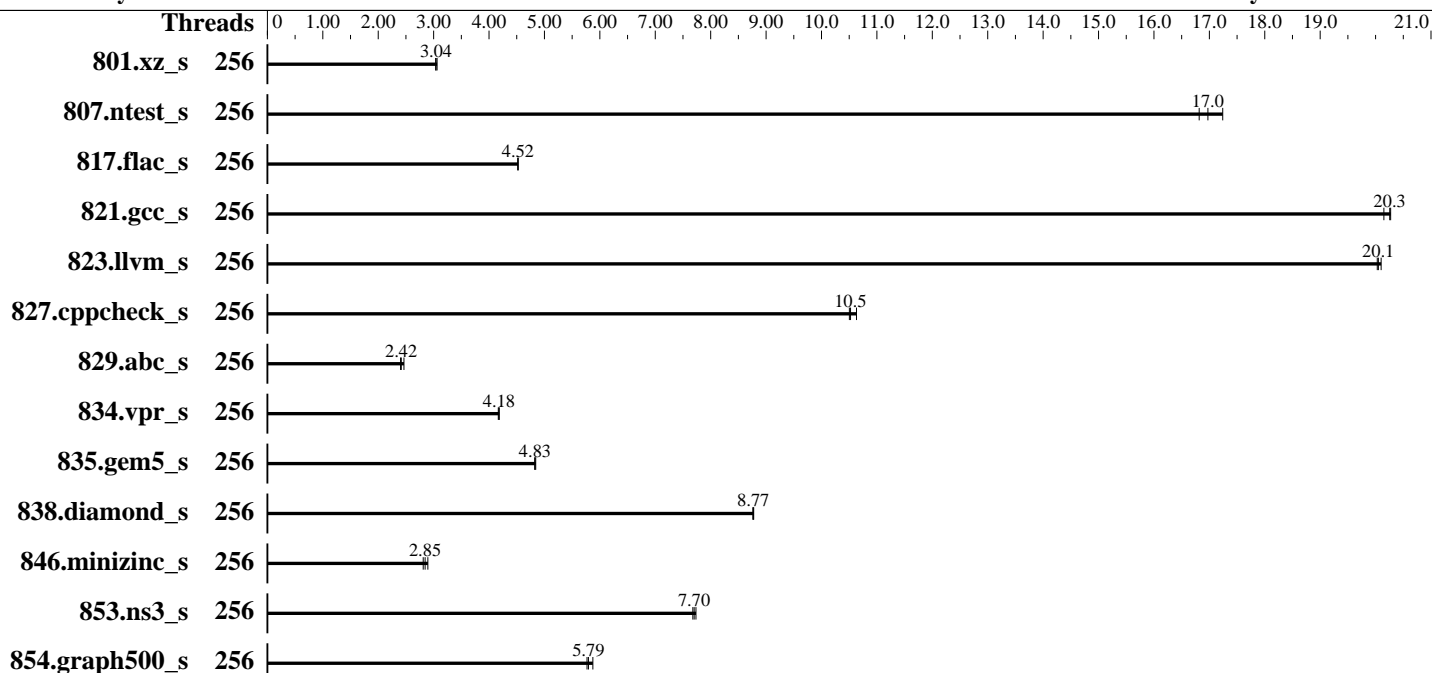
Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9755  
 Max MHz: 4100  
 Nominal: 2700  
 Enabled: 128 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 Cache L1: 32 KB I + 48 KB D on chip per core  
 L2: 1 MB I+D on chip per core  
 L3: 512 MB I+D on chip per chip,  
 32 MB shared / 8 cores  
 Other: None  
 Memory: 1536 GB (12 x 128 GB 2Rx4 PC5-6400B-R,  
 running at 5200)  
 Storage: 1 x 1.6 TB NVMe SSD  
 Cooling: CLC  
 Other: None

### Software

OS: Ubuntu 24.04.3 LTS  
 Kernel 6.8.0-94-generic  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: HPE BIOS Version v1.34  
 released Nov-2025  
 File System: ext4  
 System State: Run level 5 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other: None  
 Power Management: BIOS and OS is 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	256	195	3.04	193	3.06	<b>194</b>	<b>3.04</b>	256	195	3.04	193	3.06	<b>194</b>	<b>3.04</b>
807.ntest_s	256	66.1	17.2	<b>67.2</b>	<b>17.0</b>	67.8	16.8	256	66.1	17.2	<b>67.2</b>	<b>17.0</b>	67.8	16.8
817.flac_s	256	<b>384</b>	<b>4.52</b>	384	4.52	384	4.52	256	<b>384</b>	<b>4.52</b>	384	4.52	384	4.52
821.gcc_s	256	<b>102</b>	<b>20.3</b>	102	20.3	103	20.1	256	<b>102</b>	<b>20.3</b>	102	20.3	103	20.1
823.llvm_s	256	70.2	20.1	<b>70.4</b>	<b>20.1</b>	70.4	20.0	256	70.2	20.1	<b>70.4</b>	<b>20.1</b>	70.4	20.0
827.cppcheck_s	256	<b>106</b>	<b>10.5</b>	105	10.6	107	10.5	256	<b>106</b>	<b>10.5</b>	105	10.6	107	10.5
829.abc_s	256	337	2.46	346	2.40	<b>344</b>	<b>2.42</b>	256	337	2.46	346	2.40	<b>344</b>	<b>2.42</b>
834.vpr_s	256	<b>228</b>	<b>4.18</b>	229	4.17	228	4.18	256	<b>228</b>	<b>4.18</b>	229	4.17	228	4.18
835.gem5_s	256	235	4.84	236	4.82	<b>236</b>	<b>4.83</b>	256	235	4.84	236	4.82	<b>236</b>	<b>4.83</b>
838.diamond_s	256	<b>114</b>	<b>8.77</b>	114	8.78	114	8.76	256	<b>114</b>	<b>8.77</b>	114	8.78	114	8.76
846.minizinc_s	256	238	2.81	231	2.90	<b>235</b>	<b>2.85</b>	256	238	2.81	231	2.90	<b>235</b>	<b>2.85</b>
853.ns3_s	256	<b>150</b>	<b>7.70</b>	150	7.68	149	7.73	256	<b>150</b>	<b>7.70</b>	150	7.68	149	7.73
854.graph500_s	256	<b>105</b>	<b>5.79</b>	106	5.77	104	5.87	256	<b>105</b>	<b>5.79</b>	106	5.77	104	5.87

SPECspeed®2026\_int\_base = **6.69**

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

## Compiler Notes

The AMD64 AOCC Compiler Suite is available at  
<http://developer.amd.com/amd-aocc/>  
Flang v22 is available at  
<https://flang.llvm.org/>

## Submit Notes

The config file option 'submit' was used.  
'numactl' was used to bind copies to the cores.  
See the configuration file for details.

## Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit  
'ulimit -l 2097152' was used to set environment locked pages in memory limit

runcpu command invoked through numactl i.e.:  
numactl --interleave=all runcpu <etc>

To limit dirty cache to 8% of memory, 'sysctl -w vm.dirty\_ratio=8' run as root.  
To limit swap usage to minimum necessary, 'sysctl -w vm.swappiness=1' run as root.  
To free node-local memory and avoid remote memory usage,

(Continued on next page)



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## Operating System Notes (Continued)

```
'sysctl -w vm.zone_reclaim_mode=1' run as root.
To clear filesystem caches, 'sync; sysctl -w vm.drop_caches=3' run as root.
To disable address space layout randomization (ASLR) to reduce run-to-run
variability, 'sysctl -w kernel.randomize_va_space=0' run as root.
To enable Transparent Hugepages (THP) for all allocations,
'echo always > /sys/kernel/mm/transparent_hugepage/enabled' and
'echo always > /sys/kernel/mm/transparent_hugepage/defrag' run as root.
```

## Environment Variables Notes

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

```
GOMP_CPU_AFFINITY = "0-255"
LD_LIBRARY_PATH =
"/home/cpu2026/amd_speed_aocc510_flang22_znver5_A_lib/lib:/home/cpu2026/
amd_speed_aocc510_flang22_znver5_A_lib/lib32:"
MALLOCCONF = "retain:true"
```

## General Notes

Binaries were compiled on a system with an AMD EPYC 9754 CPU + 768 GiB Memory using Ubuntu 24.04

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) 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.

## Platform Notes

BIOS Configurations : Parameters are selected in the order shown below

Workload Profile set to General Peak Frequency Compute

Determinism Control set to Manual

Performance Determinism set to Power Deterministic

Memory Patrol Scrubbing set to Disabled

ACPI CST C2 Latency set to 18 microseconds

Last-Level Cache (LLC) as NUMA Node set to Enabled

NUMA memory domains per socket set to Four memory domains per socket

Thermal Configuration set to Enhanced CPU Cooling

Workload Profile set to Custom

Power Regulator set to OS Control Mode

Sysinfo program /home/cpu2026/bin/sysinfo

(Continued on next page)



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## Platform Notes (Continued)

Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on admin1 Fri Feb 6 07:00:29 2026

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

-----  
Table of contents

- 1. uname -srvm
- 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 255 (255.4-lubuntu8.12)
- 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
- 22. dmidecode
- 23. BIOS

-----  
1. uname -srvm  
Linux 6.8.0-94-generic #96-Ubuntu SMP PREEMPT\_DYNAMIC Fri Jan 9 20:36:55 UTC 2026 x86\_64

-----  
2. w  
07:00:29 up 5:40, 3 users, load average: 0.07, 0.02, 1.75  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
admin1 172.16.0.100 06:34 5:23m 0.00s 0.01s sshd: admin1 [priv]  
admin1 172.16.0.100 01:21 5:23m 0.00s 0.06s sshd: admin1 [priv]  
admin1 tty1 - 01:20 5:39m 0.05s 0.02s -bash

-----  
3. Username

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## Platform Notes (Continued)

From environment variable \$USER: root  
From the command 'logname': admin1

```

-----
4. ulimit -a
time(seconds)          unlimited
file(blocks)           unlimited
data(kbytes)           unlimited
stack(kbytes)          unlimited
coredump(blocks)      0
memory(kbytes)         unlimited
locked memory(kbytes) 2097152
process                6190755
nofiles                1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                 0

```

```

-----
5. sysinfo process ancestry
/sbin/init
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: admin1 [priv]
sshd: admin1@pts/0
-bash
sudo -i
sudo -i
-bash
sudo ./run_intspeed.py
sudo ./run_intspeed.py
python3 ./run_intspeed.py
/bin/bash ./amd_speed_aocc510_flang22_znver5_A1.sh
runcpu --config amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3 intspeed
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--nopower --runmode speed --tune base --size test:train:refspeed intspeed --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.001/templogs/preenv.intspeed.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026

```

```

-----
6. /proc/cpuinfo
model name      : AMD EPYC 9755 128-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 26
model          : 2
stepping       : 1
microcode      : 0xb00215a

```

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## Platform Notes (Continued)

```
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size      : 192 4K pages
cpu cores     : 128
siblings      : 256
1 physical ids (chips)
256 processors (hardware threads)
physical id 0: core ids 0-127
physical id 0: apicids 0-255
```

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 2.39.3:

```
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         52 bits physical, 57 bits virtual
Byte Order:            Little Endian
CPU(s):                256
On-line CPU(s) list:  0-255
Vendor ID:             AuthenticAMD
BIOS Vendor ID:       Advanced Micro Devices, Inc.
Model name:            AMD EPYC 9755 128-Core Processor
BIOS Model name:      AMD EPYC 9755 128-Core Processor          CPU @ 2.7GHz
BIOS CPU family:      107
CPU family:            26
Model:                 2
Thread(s) per core:   2
Core(s) per socket:   128
Socket(s):             1
Stepping:              1
Frequency boost:       enabled
CPU(s) scaling MHz:   100%
CPU max MHz:           2700.0000
CPU min MHz:           1500.0000
BogoMIPS:              5391.35
```

```
Flags:                  fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat
pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb
rdtscp lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid
extd_apicid aperfmperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid
sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm
cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpext
perfctr_llc mwaitx cpb cat_l3 cdp_l3 hw_pstate ssbd mba perfmon_v2
ibrs ibpb stibp ibrs_enhanced vmmcall fsgsbase tsc_adjust bmi1 avx2
smep bmi2 erms invpcid cqm rdt_a avx512f avx512dq rdseed adx smap
```

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## Platform Notes (Continued)

avx512ifma clflushopt clwb avx512cd sha\_ni avx512bw avx512vl xsaveopt  
xsavec xgetbv1 xsaves cqm\_llc cqm\_occup\_llc cqm\_mbm\_total  
cqm\_mbm\_local user\_shstk avx\_vnni avx512\_bf16 clzero irperf  
xsaveerptr rdpru wbnoinvd amd\_ppin cppc amd\_ibpb\_ret arat npt lbrv  
svm\_lock nrrip\_save tsc\_scale vmcb\_clean flushbyasid decodeassists  
pausefilter pfthreshold avic v\_vmsave\_vmload vgif x2avic v\_spec\_ctrl  
vnni avx512vbmi umip pku ospke avx512\_vbmi2 gfni vaes vpclmulqdq  
avx512\_vnni avx512\_bitalg avx512\_vpopcntdq la57 rdpid bus\_lock\_detect  
movdiri movdir64b overflow\_recov succor smca fsrm avx512\_vp2intersect  
flush\_llid debug\_swap

Virtualization:	AMD-V
L1d cache:	6 MiB (128 instances)
L1i cache:	4 MiB (128 instances)
L2 cache:	128 MiB (128 instances)
L3 cache:	512 MiB (16 instances)
NUMA node(s):	16
NUMA node0 CPU(s):	0-7,128-135
NUMA node1 CPU(s):	8-15,136-143
NUMA node2 CPU(s):	16-23,144-151
NUMA node3 CPU(s):	24-31,152-159
NUMA node4 CPU(s):	32-39,160-167
NUMA node5 CPU(s):	40-47,168-175
NUMA node6 CPU(s):	48-55,176-183
NUMA node7 CPU(s):	56-63,184-191
NUMA node8 CPU(s):	64-71,192-199
NUMA node9 CPU(s):	72-79,200-207
NUMA node10 CPU(s):	80-87,208-215
NUMA node11 CPU(s):	88-95,216-223
NUMA node12 CPU(s):	96-103,224-231
NUMA node13 CPU(s):	104-111,232-239
NUMA node14 CPU(s):	112-119,240-247
NUMA node15 CPU(s):	120-127,248-255
Vulnerability Gather data sampling:	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/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2:	Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP always-on; RSB filling; PBRSE-eIBRS Not affected; BHI Not affected
Vulnerability Srbds:	Not affected
Vulnerability Tsx async abort:	Not affected

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### Platform Notes (Continued)

Vulnerability Vmscape: Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	6M	12	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64
L2	1M	128M	16	Unified	2	1024	1	64
L3	32M	512M	16	Unified	3	32768	1	64

-----  
8. numactl --hardware

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

```

available: 16 nodes (0-15)
node 0 cpus: 0-7,128-135
node 0 size: 96447 MB
node 0 free: 95508 MB
node 1 cpus: 8-15,136-143
node 1 size: 96762 MB
node 1 free: 96582 MB
node 2 cpus: 16-23,144-151
node 2 size: 96762 MB
node 2 free: 96580 MB
node 3 cpus: 24-31,152-159
node 3 size: 96762 MB
node 3 free: 96578 MB
node 4 cpus: 32-39,160-167
node 4 size: 96762 MB
node 4 free: 96570 MB
node 5 cpus: 40-47,168-175
node 5 size: 96762 MB
node 5 free: 96556 MB
node 6 cpus: 48-55,176-183
node 6 size: 96762 MB
node 6 free: 96590 MB
node 7 cpus: 56-63,184-191
node 7 size: 96762 MB
node 7 free: 96586 MB
node 8 cpus: 64-71,192-199
node 8 size: 96762 MB
node 8 free: 96566 MB
node 9 cpus: 72-79,200-207
node 9 size: 96762 MB
node 9 free: 96524 MB
node 10 cpus: 80-87,208-215
node 10 size: 96762 MB
node 10 free: 96558 MB
node 11 cpus: 88-95,216-223

```

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## Platform Notes (Continued)

```

node 11 size: 96762 MB
node 11 free: 96038 MB
node 12 cpus: 96-103,224-231
node 12 size: 96762 MB
node 12 free: 96575 MB
node 13 cpus: 104-111,232-239
node 13 size: 96762 MB
node 13 free: 96292 MB
node 14 cpus: 112-119,240-247
node 14 size: 96762 MB
node 14 free: 96565 MB
node 15 cpus: 120-127,248-255
node 15 size: 96648 MB
node 15 free: 96371 MB

```

node distances:

```

node  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15
  0:  10 11 11 11 12 12 12 12 12 12 12 12 12 12 12 12
  1:  11 10 11 11 12 12 12 12 12 12 12 12 12 12 12 12
  2:  11 11 10 11 12 12 12 12 12 12 12 12 12 12 12 12
  3:  11 11 11 10 12 12 12 12 12 12 12 12 12 12 12 12
  4:  12 12 12 12 10 11 11 11 12 12 12 12 12 12 12 12
  5:  12 12 12 12 11 10 11 11 12 12 12 12 12 12 12 12
  6:  12 12 12 12 11 11 10 11 12 12 12 12 12 12 12 12
  7:  12 12 12 12 11 11 11 10 12 12 12 12 12 12 12 12
  8:  12 12 12 12 12 12 12 12 10 11 11 11 12 12 12 12
  9:  12 12 12 12 12 12 12 12 11 10 11 11 12 12 12 12
 10:  12 12 12 12 12 12 12 12 11 11 10 11 12 12 12 12
 11:  12 12 12 12 12 12 12 12 11 11 11 10 12 12 12 12
 12:  12 12 12 12 12 12 12 12 12 12 12 12 10 11 11 11
 13:  12 12 12 12 12 12 12 12 12 12 12 12 11 10 11 11
 14:  12 12 12 12 12 12 12 12 12 12 12 12 11 11 10 11
 15:  12 12 12 12 12 12 12 12 12 12 12 12 11 11 11 10

```

```

-----
9. /proc/meminfo
MemTotal:      1584915352 kB

```

```

-----
10. who -r
run-level 5 Feb 6 01:20

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-lubuntu8.12)
Default Target Status
graphical      running

```

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## Platform Notes (Continued)

12. Services, from `systemctl list-unit-files`

STATE	UNIT FILES
enabled	ModemManager apparmor appport blk-availability cloud-config cloud-final cloud-init cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ gpu-manager grub-common grub-initrd-fallback keyboard-setup lvm2-monitor multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb snapd sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved thermald tuned ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades vgauth
enabled-runtime	netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled	console-getty debug-shell iscsid nftables rsync serial-getty@ ssh systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-networkd-wait-online@ systemd-pcrlock-file-system systemd-pcrlock-firmware-code systemd-pcrlock-firmware-config systemd-pcrlock-machine-id systemd-pcrlock-make-policy systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext systemd-time-wait-sync systemd-timesyncd upower
indirect	systemd-sysupdate systemd-sysupdate-reboot uuidd
masked	cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common

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

```
BOOT_IMAGE=/boot/vmlinuz-6.8.0-94-generic
root=UUID=55095485-7cab-4cdb-a7f6-908dc16f7253
ro
```

14. `cpupower frequency-info`

```
analyzing CPU 236:
  current policy: frequency should be within 1.50 GHz and 2.70 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.

  boost state support:
    Supported: yes
    Active: yes
    Boost States: 0
    Total States: 3
    Pstate-P0: 2700MHz
```

15. `tuned-adm active`

Current active profile: balanced

16. `sysctl`

<code>kernel.numa_balancing</code>	1
<code>kernel.randomize_va_space</code>	0
<code>vm.compaction_proactiveness</code>	20

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

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**Hewlett Packard Enterprise**

(Test Sponsor: HPE)

**ProLiant Compute DL325 Gen12**  
(2.70 GHz, AMD EPYC 9755)

SPECspeed®2026\_int\_base = 6.69

SPECspeed®2026\_int\_peak = 6.69

**CPU2026 License:** 3

**Test Sponsor:** HPE

**Tested by:** HPE

**Test Date:** Feb-2026

**Hardware Availability:** Jul-2025

**Software Availability:** Jan-2026

## Platform Notes (Continued)

```

vm.dirty_background_bytes      0
vm.dirty_background_ratio     10
vm.dirty_bytes                 0
vm.dirty_expire_centisecs     3000
vm.dirty_ratio                 8
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                   1
vm.watermark_boost_factor      15000
vm.watermark_scale_factor       10
vm.zone_reclaim_mode           1

```

```

-----
17. /sys/kernel/mm/transparent_hugepage
defrag      [always] defer defer+advise madvise never
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 Ubuntu 24.04.3 LTS

```

```

-----
20. Disk information
SPEC is set to: /home/cpu2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p2 ext4  1.5T  33G  1.4T   3% /

```

```

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

```

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## Platform Notes (Continued)

Vendor: HPE  
Product: HPE ProLiant Compute DL325 Gen12  
Product Family: ProLiant  
Serial: OU2MZL2EWE

### 22. dmidecode

Additional information from dmidecode 3.5 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:

4x Samsung M321RAJA0MB2-CCPEC 128 GB 2 rank 6400, configured at 5200  
6x Samsung M321RAJA0MB2-CCPKC 128 GB 2 rank 6400, configured at 5200  
2x Samsung M321RAJA0MB2-CCPPC 128 GB 2 rank 6400, configured at 5200

### 23. BIOS

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

BIOS Vendor: HPE  
BIOS Version: 1.34  
BIOS Date: 11/28/2025  
BIOS Revision: 1.34  
Firmware Revision: 1.18

## Compiler Version Notes

=====  
C | 854.graph500\_s(base)

-----  
AMD clang version 17.0.6 (CLANG: AOCC\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin

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

-----  
AMD clang version 17.0.6 (CLANG: AOCC\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin

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**Test Date:** Feb-2026

**Hardware Availability:** Jul-2025

**Software Availability:** Jan-2026

## Compiler Version Notes (Continued)

```

=====
C++, C | 801.xz_s(base) 817.flac_s(base) 821.gcc_s(base) 823.llvm_s(base)
      | 829.abc_s(base) 834.vpr_s(base) 835.gem5_s(base) 838.diamond_s(base)
      | 846.minizinc_s(base)
=====

```

```

AMD clang version 17.0.6 (CLANG: AOCC_5.1.0-Build#1994 2025_12_23)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin
=====

```

## Base Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

## Base Portability Flags

```

801.xz_s: -DSPEC_LP64
807.ntest_s: -DSPEC_LP64
817.flac_s: -DSPEC_LP64
821.gcc_s: -DSPEC_LP64
823.llvm_s: -DSPEC_LP64
827.cppcheck_s: -DSPEC_LP64
829.abc_s: -DSPEC_LP64
834.vpr_s: -fno-finite-math-only -DSPEC_LP64
835.gem5_s: -fno-finite-math-only -DSPEC_LP64
838.diamond_s: -DSPEC_LP64
846.minizinc_s: -DSPEC_LP64
853.ns3_s: -fno-finite-math-only -DSPEC_LP64
854.graph500_s: -DSPEC_LP64

```



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## Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-allow-multiple-definition -Wl,-mllvm -Wl,-extra-inliner -O3 -flto
-march=znver5 -fveclib=AMDLIBM -ffast-math -zopt -fremap-arrays
-fstrip-mining -fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50
-fopenmp -DSPEC_OPENMP -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -zopt -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -fopenmp -DSPEC_OPENMP
-fvirtual-function-elimination -fvisibility=hidden -lamdalloc
-lamdlibm -fopenmp=libomp -lomp
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -zopt -fremap-arrays -fstrip-mining
-fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-fopenmp -DSPEC_OPENMP -fvirtual-function-elimination
-fvisibility=hidden -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

## Base Other Flags

C benchmarks:

```
-Wno-return-type
```

Benchmarks using both C and C++:

```
-Wno-return-type
```

## Peak Optimization Flags

C benchmarks:

(Continued on next page)



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**Tested by:** HPE

**Test Date:** Feb-2026  
**Hardware Availability:** Jul-2025  
**Software Availability:** Jan-2026

## Peak Optimization Flags (Continued)

854.graph500\_s: basepeak = yes

C++ benchmarks:

807.ntest\_s: basepeak = yes

827.cppcheck\_s: basepeak = yes

853.ns3\_s: basepeak = yes

Benchmarks using both C and C++:

801.xz\_s: basepeak = yes

817.flac\_s: basepeak = yes

821.gcc\_s: basepeak = yes

823.llvm\_s: basepeak = yes

829.abc\_s: basepeak = yes

834.vpr\_s: basepeak = yes

835.gem5\_s: basepeak = yes

838.diamond\_s: basepeak = yes

846.minizinc\_s: basepeak = yes

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

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-AMD-Turin-rev1.11.html>  
<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.html>

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

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-AMD-Turin-rev1.11.xml>  
<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.xml>

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Tested with SPEC CPU®2026 v0.902.0 on 2026-02-06 02:00:28-0500.  
Report generated on 2026-05-04 23:33:15 by CPU2026 PDF formatter (unknown).  
Originally published on 2026-05-05.