



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

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

SPECrate®2026_int_base = 486

SPECrate®2026_int_peak = 486

CPU2026 License: 3

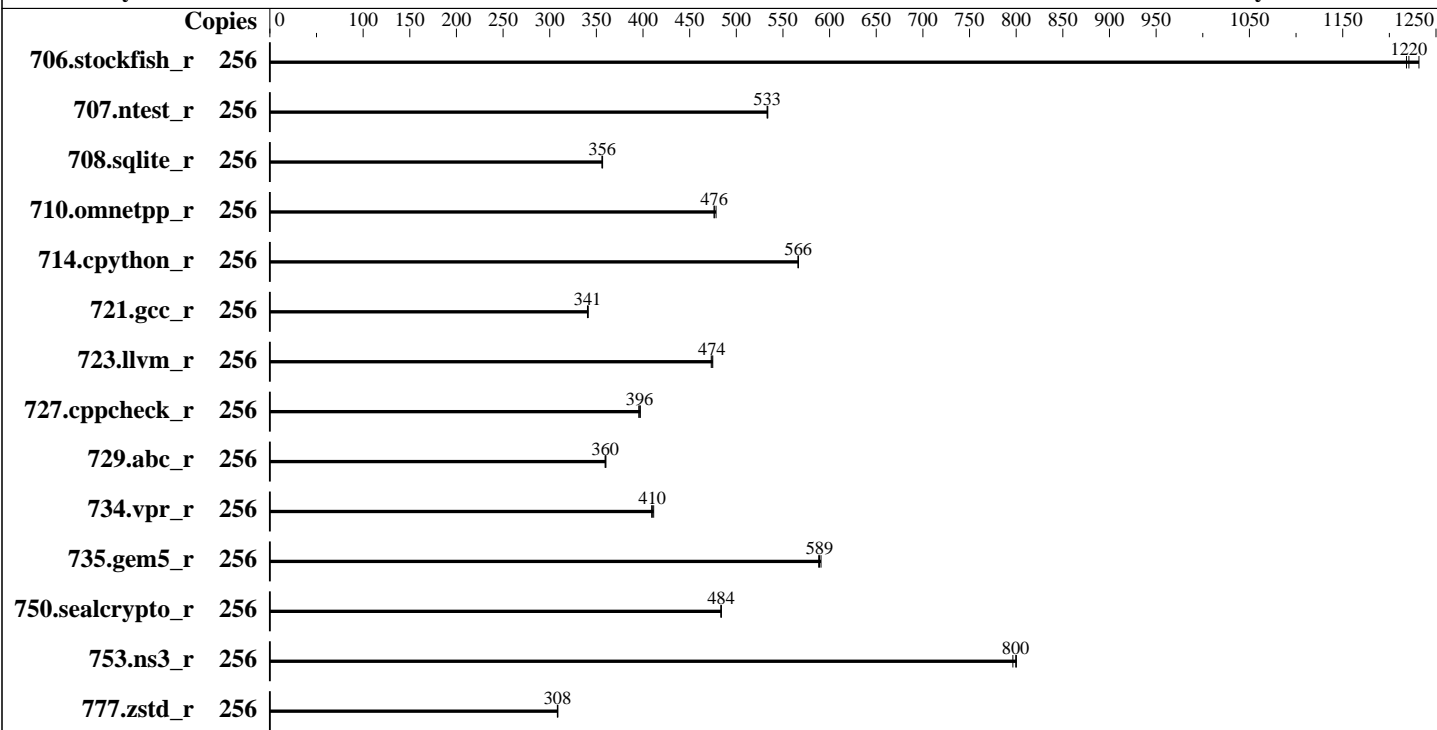
Test Sponsor: HPE

Tested by: HPE

Test Date: Jan-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 6.8.0-90-generic
 Compiler: C/C++/Fortran: Version 5.1.0 of AOCC
 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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	256	264	1220	265	1220	262	1230	256	264	1220	265	1220	262	1230
707.ntest_r	256	284	533	284	534	284	533	256	284	533	284	534	284	533
708.sqlite_r	256	380	356	379	357	379	356	256	380	356	379	357	379	356
710.omnetpp_r	256	260	478	261	476	261	476	256	260	478	261	476	261	476
714.cpython_r	256	216	566	217	566	216	566	256	216	566	217	566	216	566
721.gcc_r	256	516	340	515	341	516	341	256	516	340	515	341	516	341
723.llvm_r	256	273	475	274	473	274	474	256	273	475	274	473	274	474
727.cppcheck_r	256	231	397	232	395	232	396	256	231	397	232	395	232	396
729.abc_r	256	327	360	326	360	327	359	256	327	360	326	360	327	359
734.vpr_r	256	287	411	288	409	288	410	256	287	411	288	409	288	410
735.gem5_r	256	211	591	212	589	212	588	256	211	591	212	589	212	588
750.sealcrypto_r	256	284	484	284	484	284	484	256	284	484	284	484	284	484
753.ns3_r	256	197	796	196	800	196	800	256	197	796	196	800	196	800
777.zstd_r	256	535	308	534	309	535	308	256	535	308	534	309	535	308

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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/>

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.

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Operating System Notes (Continued)

To free node-local memory and avoid remote memory usage,
 '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:
 LD_LIBRARY_PATH =
 "/home/cpu2026/amd_rate_aocc510_znver5_A_lib/lib:/home/cpu2026/amd_rate_
 aocc510_znver5_A_lib/lib32:"
 MALLOC_CONF = "retain:true"

General Notes

Binaries were compiled on a system with 2x AMD EPYC Venice256 CPU + 2TiB
 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 High Performance Compute (HPC)
 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
 AMD Periodic Directory Rinse set to Periodic
 Workload Profile set to Custom
 Power Regulator set to OS Control Mode

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Platform Notes (Continued)

sysinfo program /home/cpu2026/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on admin1 Thu Jan 29 11:33:03 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 6.8.0-90-generic #91-Ubuntu SMP PREEMPT_DYNAMIC Tue Nov 18 14:14:30 UTC 2025 x86_64

```

```

2. w
11:33:03 up 6:24, 11 users, load average: 42.69, 95.99, 110.74
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
admin1    ?        172.16.0.111  11:32      4:44m      0.00s      ?          sshd: admin1 [priv]
admin1    ?        172.16.0.111  11:32      4:44m      0.00s      ?          sshd: admin1 [priv]
admin1    ?        172.16.0.111  11:32      4:44m      0.00s      ?          sshd: admin1 [priv]
admin1    ?        172.16.0.111  11:32      4:44m      0.00s      ?          sshd: admin1 [priv]
admin1    ?        172.16.0.111  06:48      4:44m      0.00s      0.01s     sshd: admin1 [priv]

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Platform Notes (Continued)

```

adminl      172.16.0.111    06:48    4:44m  0.00s  0.01s sshd: adminl [priv]
adminl      172.16.0.111    06:48    4:44m  0.00s  0.01s sshd: adminl [priv]
adminl      172.16.0.111    06:48    4:44m  0.00s  0.01s sshd: adminl [priv]
adminl      172.16.0.100    05:17    4:44m  0.00s  0.04s sshd: adminl [priv]
adminl      172.16.0.100    05:15    4:44m  0.00s  0.06s sshd: adminl [priv]
adminl     tty1         -        05:11    6:21m  0.05s  0.02s -bash

```

3. Username

```

From environment variable $USER:  root
From the command 'logname':      adminl

```

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            6190756
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: adminl [priv]
sshd: adminl@notty
/bin/bash $SPEC/run_intrate_sh.sh
sudo ./run_intrate.py
python3 ./run_intrate.py
/bin/bash ./amd_rate_aocc510_znver5_A1.sh
runcpu --config amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 3 intrate
runcpu --configfile amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 3 --nopower
--runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.intrate.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

```

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Platform Notes (Continued)

```

vendor_id      : AuthenticAMD
cpu family    : 26
model         : 2
stepping      : 1
microcode     : 0xb00215a
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:          101%
CPU max MHz:                 2700.0000
CPU min MHz:                 1500.0000
BogoMIPS:                    5392.00
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

```

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Platform Notes (Continued)

```
cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpe
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
avx512ifma clflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt
xsavc 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 nrip_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_lld 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

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Platform Notes (Continued)

Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
 Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP
 always-on; RSB filling; PBR SB-eIBRS Not affected; BHI Not affected
 Vulnerability Srbds: Not affected
 Vulnerability Tsx async abort: Not affected
 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: 95369 MB
node 1 cpus: 8-15,136-143
node 1 size: 96762 MB
node 1 free: 96019 MB
node 2 cpus: 16-23,144-151
node 2 size: 96762 MB
node 2 free: 96023 MB
node 3 cpus: 24-31,152-159
node 3 size: 96762 MB
node 3 free: 95988 MB
node 4 cpus: 32-39,160-167
node 4 size: 96762 MB
node 4 free: 96053 MB
node 5 cpus: 40-47,168-175
node 5 size: 96762 MB
node 5 free: 95925 MB
node 6 cpus: 48-55,176-183
node 6 size: 96762 MB
node 6 free: 96030 MB
node 7 cpus: 56-63,184-191
node 7 size: 96762 MB
node 7 free: 95577 MB
node 8 cpus: 64-71,192-199
node 8 size: 96762 MB
node 8 free: 96035 MB
node 9 cpus: 72-79,200-207
node 9 size: 96762 MB

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Platform Notes (Continued)

```

node 9 free: 95733 MB
node 10 cpus: 80-87,208-215
node 10 size: 96762 MB
node 10 free: 95636 MB
node 11 cpus: 88-95,216-223
node 11 size: 96762 MB
node 11 free: 96044 MB
node 12 cpus: 96-103,224-231
node 12 size: 96719 MB
node 12 free: 95962 MB
node 13 cpus: 104-111,232-239
node 13 size: 96762 MB
node 13 free: 96067 MB
node 14 cpus: 112-119,240-247
node 14 size: 96762 MB
node 14 free: 95992 MB
node 15 cpus: 120-127,248-255
node 15 size: 96691 MB
node 15 free: 95963 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 12 10 11 11 11 12 12 12
9:  12 12 12 12 12 12 12 12 12 11 10 11 11 12 12 12
10: 12 12 12 12 12 12 12 12 12 11 11 10 11 12 12 12
11: 12 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 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:      1584915404 kB

```

```

-----
10. who -r
    run-level 5 Jan 29 05:09

```

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Platform Notes (Continued)

11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.12)

```
Default Target Status
graphical          running
```

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	ModemManager apparmor apport 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-reboot uidd
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-6.8.0-90-generic
root=UUID=55095485-7cab-4cdb-a7f6-908dc16f7253
ro
```

14. cpupower frequency-info

```
analyzing CPU 227:
  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
```

(Continued on next page)



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ProLiant Compute DL325 Gen12
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Test Sponsor: HPE

Tested by: HPE

Test Date: Jan-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026

Platform Notes (Continued)

16. sysctl

kernel.numa_balancing	1
kernel.randomize_va_space	0
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	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+madvise	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

(Continued on next page)



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Platform Notes (Continued)

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme1nlp2	ext4	1.5T	32G	1.4T	3%	/

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

```
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      | 708.sqlite_r(base) 714.cpython_r(base) 777.zstd_r(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++    | 706.stockfish_r(base) 707.ntest_r(base) 727.cppcheck_r(base)  
       | 753.ns3_r(base)  
=====
```

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Compiler Version Notes (Continued)

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++, C | 710.omnetpp_r(base) 721.gcc_r(base) 723.llvm_r(base) 729.abc_r(base)
| 734.vpr_r(base) 735.gem5_r(base) 750.sealcrypto_r(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

706.stockfish_r: -DSPEC_LP64
707.ntest_r: -DSPEC_LP64
708.sqlite_r: -DSPEC_LP64
710.omnetpp_r: -DSPEC_LP64
714.cpython_r: -DSPEC_LP64
721.gcc_r: -DSPEC_LP64
723.llvm_r: -DSPEC_LP64
727.cppcheck_r: -DSPEC_LP64
729.abc_r: -DSPEC_LP64
734.vpr_r: -DSPEC_LP64
735.gem5_r: -DSPEC_LP64
750.sealcrypto_r: -DSPEC_LP64
753.ns3_r: -DSPEC_LP64
777.zstd_r: -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,-mllvm -Wl,-ldist-scalar-expand -fenable-aggressive-gather
-Wl,-mllvm -Wl,-extra-inliner -O3 -march=znver5 -fveclib=AMDLIBM
-fno-PIE -no-pie -flto -fstruct-layout=7 -mllvm -unroll-threshold=50
-mllvm -inline-threshold=1000 -fremap-arrays -fstrip-mining
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lflang
-lamdalloc
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5
-fveclib=AMDLIBM -flto -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt -fno-PIE -no-pie
-fvirtual-function-elimination -fvisibility=hidden -lamdlibm -lflang
-lamdalloc
```

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 -O3 -march=znver5
-fveclib=AMDLIBM -fno-PIE -no-pie -flto -fstruct-layout=7
-mllvm -unroll-threshold=50 -mllvm -inline-threshold=1000
-fremap-arrays -fstrip-mining -mllvm -reduce-array-computations=3
-zopt -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000 -fvirtual-function-elimination
-fvisibility=hidden -lamdlibm -lflang -lamdalloc
```

Peak Optimization Flags

C benchmarks:

708.sqlite_r: basepeak = yes

714.cpython_r: basepeak = yes

777.zstd_r: basepeak = yes

C++ benchmarks:

706.stockfish_r: basepeak = yes

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Peak Optimization Flags (Continued)

707.ntest_r: basepeak = yes

727.cppcheck_r: basepeak = yes

753.ns3_r: basepeak = yes

Benchmarks using both C and C++:

710.omnetpp_r: basepeak = yes

721.gcc_r: basepeak = yes

723.llvm_r: basepeak = yes

729.abc_r: basepeak = yes

734.vpr_r: basepeak = yes

735.gem5_r: basepeak = yes

750.sealcrypto_r: 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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