



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

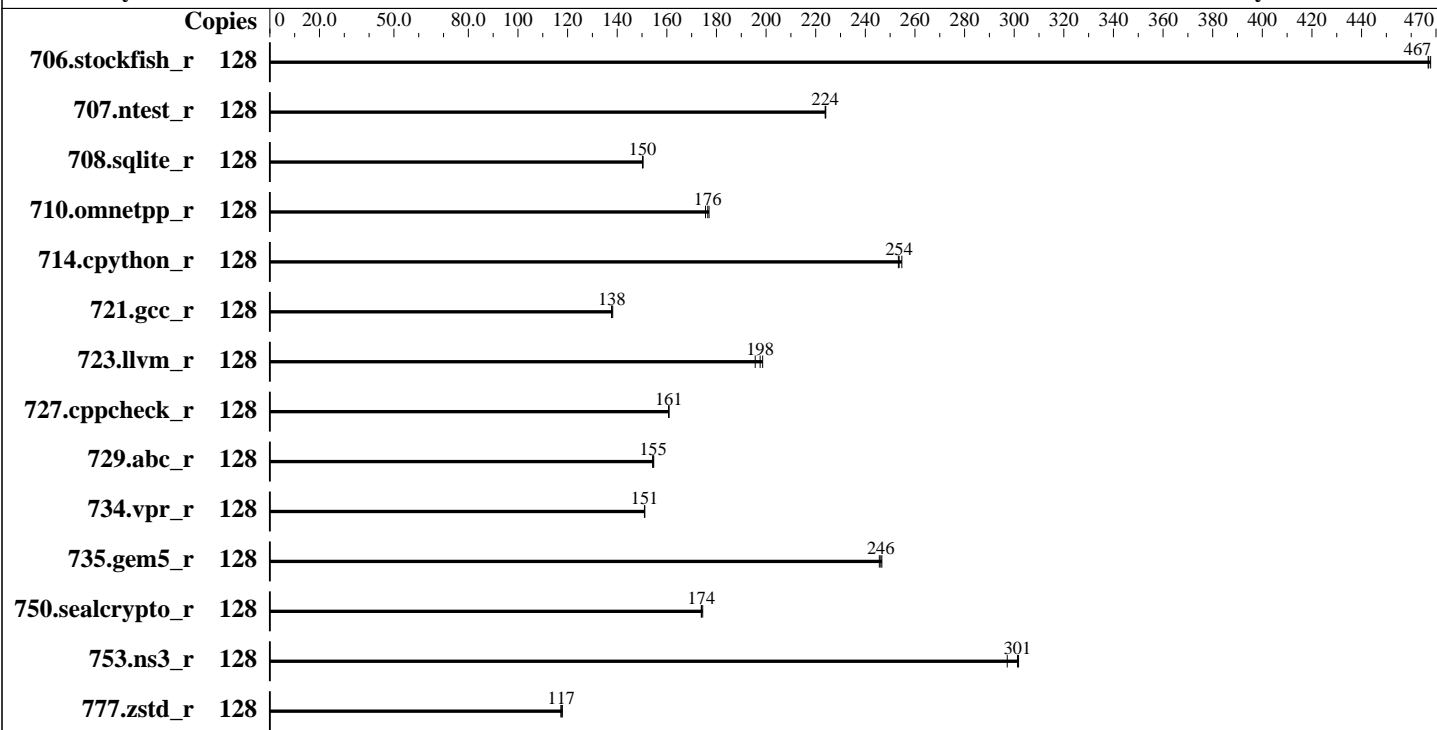
Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026



Hardware

CPU Name: AMD EPYC 8534P
 Max MHz: 3100
 Nominal: 2300
 Enabled: 64 cores, 1 chip, 2 threads/core
 Orderable: 1 Chip
 Cache L1: 32 KB I + 32 KB D on chip per core
 L2: 1 MB I+D on chip per core
 L3: 128 MB I+D on chip per chip,
 16 MB shared / 8 cores
 Other: None
 Memory: 768 GB (6 x 128 GB 4Rx4 PC5-4800B-R)
 Storage: 1 x 480 GB NVMe SSD
 Cooling: Air
 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 v2.10
 released Jan-2026
 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



SPEC

SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: Feb-2026
Hardware Availability: Oct-2024
Software Availability: Jan-2026

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	128	345	467	345	467	345	468	128	345	467	345	467	345	468
707.ntest_r	128	338	224	339	224	338	224	128	338	224	339	224	338	224
708.sqlite_r	128	450	150	450	150	449	150	128	450	150	450	150	449	150
710.omnetpp_r	128	354	176	352	176	351	177	128	354	176	352	176	351	177
714.cpython_r	128	242	253	242	254	241	255	128	242	253	242	254	241	255
721 gcc_r	128	637	138	635	138	638	138	128	637	138	635	138	638	138
723.llvm_r	128	328	198	332	196	327	199	128	328	198	332	196	327	199
727.cppcheck_r	128	286	161	286	161	286	161	128	286	161	286	161	286	161
729.abc_r	128	380	155	381	154	380	155	128	380	155	381	154	380	155
734.vpr_r	128	391	151	391	151	391	151	128	391	151	391	151	391	151
735.gem5_r	128	254	246	253	246	253	247	128	254	246	253	246	253	247
750.sealcrypto_r	128	393	174	395	174	394	174	128	393	174	395	174	394	174
753.ns3_r	128	260	302	260	301	264	297	128	260	302	260	301	264	297
777.zstd_r	128	699	118	703	117	702	117	128	699	118	703	117	702	117

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

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.

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

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_new/amd_rate_aocc510_znver5_A_lib/lib:/home/cpu2026_new/a
 md_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 General Throughput Compute
 Determinism Control set to Manual
 Performance Determinism set to Power Deterministic
 AMD Periodic Directory Rinse Tuning set to Cache-Bound
 Memory Patrol Scrubbing set to Disabled
 Last-Level Cache (LLC) as NUMA Node set to Enabled
 NUMA memory domains per socket set to Two memory domains per socket
 ACPI CST C2 Latency set to 18 microseconds
 Thermal Configuration set to Maximum Cooling
 Workload Profile set to Custom
 Power Regulator set to OS Control Mode

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

sysinfo program /home/cpu2026_new/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on admin1 Sun Feb 1 05:11:42 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
05:11:42 up 1 day, 5:02, 14 users, load average: 0.34, 0.08, 0.03
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
admin1    -        172.16.0.100  23:35      23:53m     0.00s     0.03s     sshd: admin1 [priv]
admin1    -        172.16.0.100  Sat05     23:53m     0.00s     0.11s     sshd: admin1 [priv]
admin1    -        172.16.0.100  Sat05     23:53m     0.00s     0.30s     sshd: admin1 [priv]
admin1    tty1    -             Sat05     23:52m     0.09s     0.03s     -bash
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

3. Username

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                3094457
nofiles                1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                 0
```

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --system --deserialize=85
sshd: admin1 [priv]
sshd: admin1@pts/0
-bash
sudo -i
sudo -i
-bash
/bin/bash ./intrate.sh
sudo ./run_intrate.py
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_new
```

6. /proc/cpuinfo

```
model name      : AMD EPYC 8534P 64-Core Processor
vendor_id       : AuthenticAMD
cpu family      : 25
model           : 160
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

```
stepping          : 2
microcode         : 0xaa0021c
bugs              : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso vmscape
TLB size         : 3584 4K pages
cpu cores        : 64
siblings         : 128
1 physical ids (chips)
128 processors (hardware threads)
physical id 0: core ids 0-63
physical id 0: apicids 0-127
```

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):                128
On-line CPU(s) list:  0-127
Vendor ID:             AuthenticAMD
BIOS Vendor ID:       Advanced Micro Devices, Inc.
Model name:            AMD EPYC 8534P 64-Core Processor
BIOS Model name:      AMD EPYC 8534P 64-Core Processor          CPU @ 2.3GHz
BIOS CPU family:      107
CPU family:           25
Model:                160
Thread(s) per core:   2
Core(s) per socket:   64
Socket(s):            1
Stepping:             2
Frequency boost:      enabled
CPU(s) scaling MHz:   129%
CPU max MHz:          2300.0000
CPU min MHz:          1500.0000
BogoMIPS:             4592.63
```

```
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
rdtsmp 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 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_13 cdp_13 hw_pstate ssbd mba perfmon_v2
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

```

ibrs ibpb stibp ibrs_enhanced vmcall fsgsbase bmi1 avx2 smep bmi2
erms invpcid cqm rdt_a avx512f avx512dq rdseed adx smap avx512ifma
cflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec
xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local
user_shstk avx512_bf16 clzero irperf xsaveerptr rdpru wbnoinvd
amd_ppin cpc 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 vnmi avx512vbmi umip pku
ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg
avx512_vpopcntdq la57 rdpid overflow_recov succor smca fsrm flush_l1d
debug_swap ibpb_exit_to_user

```

```

Virtualization: AMD-V
L1d cache: 2 MiB (64 instances)
L1i cache: 2 MiB (64 instances)
L2 cache: 64 MiB (64 instances)
L3 cache: 128 MiB (8 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-7,64-71
NUMA node1 CPU(s): 8-15,72-79
NUMA node2 CPU(s): 16-23,80-87
NUMA node3 CPU(s): 24-31,88-95
NUMA node4 CPU(s): 32-39,96-103
NUMA node5 CPU(s): 40-47,104-111
NUMA node6 CPU(s): 48-55,112-119
NUMA node7 CPU(s): 56-63,120-127
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability Llthf: 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: Mitigation; Safe RET
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
Vulnerability Vmscape: Mitigation; IBPB before exit to userspace

```

From `lscpu --cache:`

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	32K	2M	8	Data	1	64	1	64
L1i	32K	2M	8	Instruction	1	64	1	64
L2	1M	64M	8	Unified	2	2048	1	64

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

L3	16M	128M	16 Unified	3 16384	1	64
----	-----	------	------------	---------	---	----

8. numactl --hardware

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

available: 8 nodes (0-7)

node 0 cpus: 0-7,64-71

node 0 size: 96447 MB

node 0 free: 96015 MB

node 1 cpus: 8-15,72-79

node 1 size: 96762 MB

node 1 free: 96468 MB

node 2 cpus: 16-23,80-87

node 2 size: 96762 MB

node 2 free: 96420 MB

node 3 cpus: 24-31,88-95

node 3 size: 96719 MB

node 3 free: 96345 MB

node 4 cpus: 32-39,96-103

node 4 size: 96762 MB

node 4 free: 96451 MB

node 5 cpus: 40-47,104-111

node 5 size: 96715 MB

node 5 free: 96372 MB

node 6 cpus: 48-55,112-119

node 6 size: 96762 MB

node 6 free: 96353 MB

node 7 cpus: 56-63,120-127

node 7 size: 96762 MB

node 7 free: 96426 MB

node distances:

node	0	1	2	3	4	5	6	7
0:	10	11	11	11	12	12	12	12
1:	11	10	11	11	12	12	12	12
2:	11	11	10	11	12	12	12	12
3:	11	11	11	10	12	12	12	12
4:	12	12	12	12	10	11	11	11
5:	12	12	12	12	11	10	11	11
6:	12	12	12	12	11	11	10	11
7:	12	12	12	12	11	11	11	10

9. /proc/meminfo

MemTotal: 792262828 kB

10. who -r

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

run-level 5 Jan 31 05:19

11. Systemd service manager version: systemd 255 (255.4-lubuntu8.12)

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-sysupdate-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=61dfa28b-3b9d-4547-a60d-5242374593a9
ro

14. cpupower frequency-info

analyzing CPU 32:
current policy: frequency should be within 1.50 GHz and 2.30 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: 2300MHz

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

15. tuned-adm active
Current active profile: balanced

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

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Platform Notes (Continued)

20. Disk information

SPEC is set to: /home/cpu2026_new

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda2	ext4	438G	40G	377G	10%	/

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

Vendor: HPE
 Product: ProLiant DL145 Gen11
 Product Family: ProLiant
 Serial: 41600016J0A1

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:

1x Hynix HMCT04MEERA129N 128 GB 4 rank 4800
 1x Hynix HMCT04MEERA131N 128 GB 4 rank 4800
 4x Hynix HMCT04MEERA133N 128 GB 4 rank 4800

23. BIOS

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

BIOS Vendor: HPE
 BIOS Version: 2.10
 BIOS Date: 01/27/2026
 BIOS Revision: 2.10
 Firmware Revision: 1.66

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  

=====
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Compiler Version Notes (Continued)

```
C++      | 706.stockfish_r(base) 707.ntest_r(base) 727.cppcheck_r(base)
         | 753.ns3_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++, 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

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Base Portability Flags (Continued)

750.sealcrypto_r: -DSPEC_LP64

753.ns3_r: -DSPEC_LP64

777.zstd_r: -DSPEC_LP64

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

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL145 Gen11

(2.30 GHz, AMD EPYC 8534P)

SPECrate®2026_int_base = 194

SPECrate®2026_int_peak = 194

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026

Peak Optimization Flags (Continued)

714.cpython_r: basepeak = yes

777.zstd_r: basepeak = yes

C++ benchmarks:

706.stockfish_r: basepeak = yes

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-Siena-rev1.2.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-Siena-rev1.2.xml>

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.xml>

SPEC CPU and SPECrate are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2026 v0.902.0 on 2026-02-01 00:11:41-0500.

Report generated on 2026-05-11 16:37:50 by CPU2026 PDF formatter (unknown).

Originally published on 2026-05-05.