



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

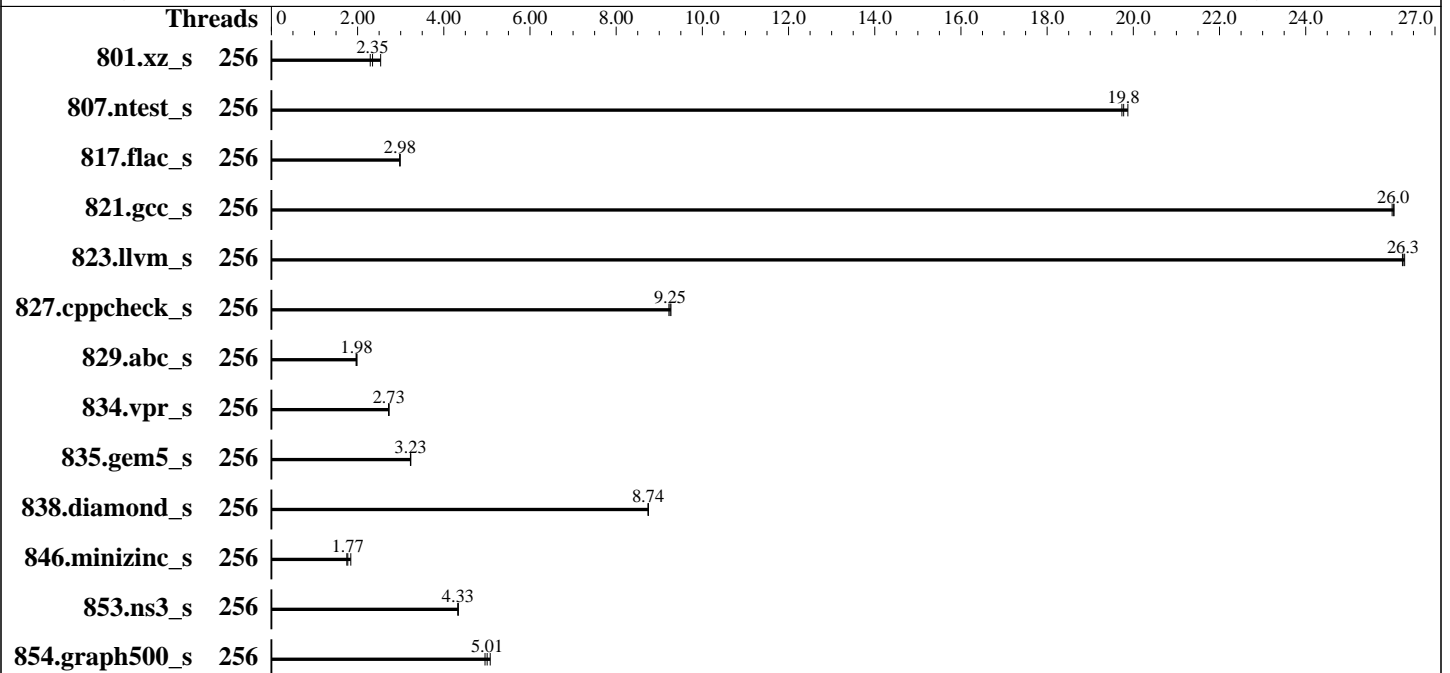
Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026



Hardware

CPU Name: AMD EPYC 9754
 Max MHz: 3100
 Nominal: 2250
 Enabled: 256 cores, 2 chips
 Orderable: 1,2 chips
 Cache L1: 32 KB I + 32 KB D on chip per core
 L2: 1 MB I+D on chip per core
 L3: 256 MB I+D on chip per chip,
 16 MB shared / 8 cores
 Other: None
 Memory: 3 TB (24 x 128 GB 2Rx4 PC5-4800B-R)
 Storage: 1 x 480 GB NVMe SSD
 Cooling: DLC
 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 v2.90
 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 CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

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

Test Date: Feb-2026
Hardware Availability: Jun-2023
Software Availability: Jan-2026

Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
801.xz_s	256	<u>252</u>	<u>2.35</u>	233	2.54	258	2.29	256	<u>252</u>	<u>2.35</u>	233	2.54	258	2.29
807.nctest_s	256	57.4	19.9	57.8	19.7	<u>57.6</u>	<u>19.8</u>	256	57.4	19.9	57.8	19.7	<u>57.6</u>	<u>19.8</u>
817.flac_s	256	<u>582</u>	<u>2.98</u>	582	2.98	583	2.98	256	<u>582</u>	<u>2.98</u>	582	2.98	583	2.98
821.gcc_s	256	79.6	26.0	<u>79.5</u>	<u>26.0</u>	79.5	26.1	256	79.6	26.0	<u>79.5</u>	<u>26.0</u>	79.5	26.1
823.llvm_s	256	<u>53.7</u>	<u>26.3</u>	53.8	26.2	53.7	26.3	256	<u>53.7</u>	<u>26.3</u>	53.8	26.2	53.7	26.3
827.cppcheck_s	256	<u>121</u>	<u>9.25</u>	121	9.22	121	9.27	256	<u>121</u>	<u>9.25</u>	121	9.22	121	9.27
829.abc_s	256	<u>420</u>	<u>1.98</u>	418	1.99	423	1.96	256	<u>420</u>	<u>1.98</u>	418	1.99	423	1.96
834.vpr_s	256	350	2.73	<u>350</u>	<u>2.73</u>	351	2.72	256	350	2.73	<u>350</u>	<u>2.73</u>	351	2.72
835.gem5_s	256	352	3.23	<u>353</u>	<u>3.23</u>	353	3.23	256	352	3.23	<u>353</u>	<u>3.23</u>	353	3.23
838.diamond_s	256	115	8.74	114	8.75	<u>114</u>	<u>8.74</u>	256	115	8.74	114	8.75	<u>114</u>	<u>8.74</u>
846.minizinc_s	256	<u>378</u>	<u>1.77</u>	364	1.84	383	1.75	256	<u>378</u>	<u>1.77</u>	364	1.84	383	1.75
853.ns3_s	256	<u>266</u>	<u>4.33</u>	266	4.34	266	4.33	256	<u>266</u>	<u>4.33</u>	266	4.34	266	4.33
854.graph500_s	256	123	4.96	<u>122</u>	<u>5.01</u>	120	5.08	256	123	4.96	<u>122</u>	<u>5.01</u>	120	5.08

SPECspeed®2026_int_base = **5.58**

SPECspeed®2026_int_peak = **5.58**

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)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

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:"
MALLOC_CONF = "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

AMD SMT Option set to Disabled

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

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

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

Sysinfo program /home/cpu2026/bin/sysinfo

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on admin1 Fri Feb 6 10:13:50 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
10:13:50 up 22 min, 2 users, load average: 0.15, 0.03, 0.01
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
admin1    pts/0    10.30.195.94  10:02      22:43      0.00s     0.04s    sshd: admin1 [priv]
admin1    pts/0    10.30.195.94  09:51      22:43      0.00s     0.03s    sshd: admin1 [priv]
```

```
3. Username
From environment variable $USER: root
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

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                12383913
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 su
sudo su
su
bash
python3 ./run_amd_speed_aocc510_flang22_znver5_A1.py
/bin/bash ./amd_speed_aocc510_flang22_znver5_A1.sh
runcpu --config amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3 intspeer
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--nopower --runmode speed --tune base --size test:train:refspeed intspeer --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.001/templogs/preenv.intspeer.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026

```

6. /proc/cpuinfo

```

model name      : AMD EPYC 9754 128-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 25
model          : 160
stepping       : 1
microcode      : 0xaa00116
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso vmscape
TLB size      : 3584 4K pages

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```

cpu cores          : 128
siblings           : 128
2 physical ids (chips)
256 processors (hardware threads)
physical id 0: core ids
0-7,16-23,32-39,48-55,64-71,80-87,96-103,112-119,128-135,144-151,160-167,176-183,192-199,208-215,224-231,
240-247
physical id 1: core ids
0-7,16-23,32-39,48-55,64-71,80-87,96-103,112-119,128-135,144-151,160-167,176-183,192-199,208-215,224-231,
240-247
physical id 0: apicids
0-7,16-23,32-39,48-55,64-71,80-87,96-103,112-119,128-135,144-151,160-167,176-183,192-199,208-215,224-231,
240-247
physical id 1: apicids
256-263,272-279,288-295,304-311,320-327,336-343,352-359,368-375,384-391,400-407,416-423,432-439,448-455,4
64-471,480-487,496-503

```

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 9754 128-Core Processor
BIOS Model name:       AMD EPYC 9754 128-Core Processor          CPU @ 2.2GHz
BIOS CPU family:        107
CPU family:             25
Model:                  160
Thread(s) per core:    1
Core(s) per socket:    128
Socket(s):              2
Stepping:               1
Frequency boost:        enabled
CPU(s) scaling MHz:    101%
CPU max MHz:            2250.0000
CPU min MHz:            1500.0000
BogoMIPS:               4492.85
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

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

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

Test Date: Feb-2026
Hardware Availability: Jun-2023
Software Availability: Jan-2026

Platform Notes (Continued)

```

rdtscp lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid
extd_apicid aperfmpperf 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 bmi1 avx2 smep bmi2
erms invpcid cqm rdt_a avx512f avx512dq rdseed adx smap 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 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: 8 MiB (256 instances)
L1i cache: 8 MiB (256 instances)
L2 cache: 256 MiB (256 instances)
L3 cache: 512 MiB (32 instances)
NUMA node(s): 32
NUMA node0 CPU(s): 0-7
NUMA node1 CPU(s): 8-15
NUMA node2 CPU(s): 16-23
NUMA node3 CPU(s): 24-31
NUMA node4 CPU(s): 32-39
NUMA node5 CPU(s): 40-47
NUMA node6 CPU(s): 48-55
NUMA node7 CPU(s): 56-63
NUMA node8 CPU(s): 64-71
NUMA node9 CPU(s): 72-79
NUMA node10 CPU(s): 80-87
NUMA node11 CPU(s): 88-95
NUMA node12 CPU(s): 96-103
NUMA node13 CPU(s): 104-111
NUMA node14 CPU(s): 112-119
NUMA node15 CPU(s): 120-127
NUMA node16 CPU(s): 128-135
NUMA node17 CPU(s): 136-143
NUMA node18 CPU(s): 144-151
NUMA node19 CPU(s): 152-159
NUMA node20 CPU(s): 160-167
NUMA node21 CPU(s): 168-175
NUMA node22 CPU(s): 176-183
NUMA node23 CPU(s): 184-191

```

(Continued on next page)



SPEC CPU[®]2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed[®]2026_int_base = 5.58

SPECspeed[®]2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```

NUMA node24 CPU(s):          192-199
NUMA node25 CPU(s):          200-207
NUMA node26 CPU(s):          208-215
NUMA node27 CPU(s):          216-223
NUMA node28 CPU(s):          224-231
NUMA node29 CPU(s):          232-239
NUMA node30 CPU(s):          240-247
NUMA node31 CPU(s):          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: 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
                                   disabled; RSB filling; PBRsB-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	8M	8	Data	1	64	1	64
L1i	32K	8M	8	Instruction	1	64	1	64
L2	1M	256M	8	Unified	2	2048	1	64
L3	16M	512M	16	Unified	3	16384	1	64

8. numactl --hardware

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

available: 32 nodes (0-31)

node 0 cpus: 0-7

node 0 size: 96449 MB

node 0 free: 95989 MB

node 1 cpus: 8-15

node 1 size: 96765 MB

node 1 free: 96639 MB

node 2 cpus: 16-23

node 2 size: 96765 MB

node 2 free: 96635 MB

node 3 cpus: 24-31

node 3 size: 96765 MB

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```

node 3 free: 96632 MB
node 4 cpus: 32-39
node 4 size: 96765 MB
node 4 free: 96644 MB
node 5 cpus: 40-47
node 5 size: 96721 MB
node 5 free: 96624 MB
node 6 cpus: 48-55
node 6 size: 96765 MB
node 6 free: 96662 MB
node 7 cpus: 56-63
node 7 size: 96765 MB
node 7 free: 96654 MB
node 8 cpus: 64-71
node 8 size: 96765 MB
node 8 free: 96610 MB
node 9 cpus: 72-79
node 9 size: 96765 MB
node 9 free: 96642 MB
node 10 cpus: 80-87
node 10 size: 96765 MB
node 10 free: 96650 MB
node 11 cpus: 88-95
node 11 size: 96765 MB
node 11 free: 96655 MB
node 12 cpus: 96-103
node 12 size: 96765 MB
node 12 free: 96667 MB
node 13 cpus: 104-111
node 13 size: 96765 MB
node 13 free: 96656 MB
node 14 cpus: 112-119
node 14 size: 96765 MB
node 14 free: 96656 MB
node 15 cpus: 120-127
node 15 size: 96765 MB
node 15 free: 96660 MB
node 16 cpus: 128-135
node 16 size: 96765 MB
node 16 free: 96620 MB
node 17 cpus: 136-143
node 17 size: 96765 MB
node 17 free: 96528 MB
node 18 cpus: 144-151
node 18 size: 96765 MB
node 18 free: 96639 MB
node 19 cpus: 152-159

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```

node 19 size: 96765 MB
node 19 free: 96446 MB
node 20 cpus: 160-167
node 20 size: 96765 MB
node 20 free: 96648 MB
node 21 cpus: 168-175
node 21 size: 96765 MB
node 21 free: 96662 MB
node 22 cpus: 176-183
node 22 size: 96765 MB
node 22 free: 96666 MB
node 23 cpus: 184-191
node 23 size: 96765 MB
node 23 free: 96645 MB
node 24 cpus: 192-199
node 24 size: 96765 MB
node 24 free: 96677 MB
node 25 cpus: 200-207
node 25 size: 96765 MB
node 25 free: 96668 MB
node 26 cpus: 208-215
node 26 size: 96765 MB
node 26 free: 96630 MB
node 27 cpus: 216-223
node 27 size: 96765 MB
node 27 free: 96651 MB
node 28 cpus: 224-231
node 28 size: 96765 MB
node 28 free: 96662 MB
node 29 cpus: 232-239
node 29 size: 96765 MB
node 29 free: 96666 MB
node 30 cpus: 240-247
node 30 size: 96765 MB
node 30 free: 96656 MB
node 31 cpus: 248-255
node 31 size: 96699 MB
node 31 free: 96603 MB
node distances:

```

```

node 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31
0: 10 11 11 11 12 12 12 12 12 12 12 12 12 12 12 12 32 32 32 32 32 32 32 32
32 32 32 32 32 32 32
1: 11 10 11 11 12 12 12 12 12 12 12 12 12 12 12 12 32 32 32 32 32 32 32 32
32 32 32 32 32 32
2: 11 11 10 11 12 12 12 12 12 12 12 12 12 12 12 12 32 32 32 32 32 32 32 32
32 32 32 32 32 32

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

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

Test Date: Feb-2026
Hardware Availability: Jun-2023
Software Availability: Jan-2026

Platform Notes (Continued)

```

3:  11  11  11  10  12  12  12  12  12  12  12  12  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
4:  12  12  12  12  10  11  11  11  12  12  12  12  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
5:  12  12  12  12  11  10  11  11  12  12  12  12  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
6:  12  12  12  12  11  11  10  11  12  12  12  12  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
7:  12  12  12  12  11  11  11  10  12  12  12  12  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
8:  12  12  12  12  12  12  12  12  10  11  11  11  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
9:  12  12  12  12  12  12  12  12  11  10  11  11  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
10: 12  12  12  12  12  12  12  12  11  11  10  11  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
11: 12  12  12  12  12  12  12  12  11  11  11  10  12  12  12  12  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
12: 12  12  12  12  12  12  12  12  12  12  12  12  10  11  11  11  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
13: 12  12  12  12  12  12  12  12  12  12  12  12  11  10  11  11  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
14: 12  12  12  12  12  12  12  12  12  12  12  12  11  11  10  11  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
15: 12  12  12  12  12  12  12  12  12  12  12  12  11  11  11  10  32  32  32  32  32  32  32  32  32
   32  32  32  32  32  32  32
16: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  10  11  11  11  12  12  12  12  12
   12  12  12  12  12  12  12
17: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  11  10  11  11  12  12  12  12  12
   12  12  12  12  12  12  12
18: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  11  11  10  11  12  12  12  12  12
   12  12  12  12  12  12  12
19: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  11  11  11  10  12  12  12  12  12
   12  12  12  12  12  12  12
20: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  10  11  11  11  12
   12  12  12  12  12  12  12
21: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  11  10  11  11  12
   12  12  12  12  12  12  12
22: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  11  11  10  11  12
   12  12  12  12  12  12  12
23: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  11  11  11  10  12
   12  12  12  12  12  12  12
24: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  12  12  12  12  10
   11  11  11  12  12  12  12
25: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  12  12  12  12  11
   10  11  11  12  12  12  12
26: 32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  32  12  12  12  12  12  12  12  12  11

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```

11 10 11 12 12 12 12
27: 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 12 11
11 11 10 12 12 12 12
28: 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 12 12
12 12 12 10 11 11 11
29: 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 12 12
12 12 12 11 10 11 11
30: 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 12 12
12 12 12 11 11 10 11
31: 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 12 12
12 12 12 11 11 11 10

```

```

-----
9. /proc/meminfo
MemTotal:          3170363788 kB

```

```

-----
10. who -r
run-level 5 Feb 6 09:51

```

```

-----
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 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 uidd
masked          cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common

```

```

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

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```
BOOT_IMAGE=/boot/vmlinuz-6.8.0-94-generic
root=UUID=60685607-d408-4b5d-9478-a6a431e11442
ro
```

14. cpupower frequency-info

analyzing CPU 154:

current policy: frequency should be within 1.50 GHz and 2.25 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: 2250MHz

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+madvise madvise never
enabled         [always] madvise never
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

```
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/sda2 ext4 439G 60G 356G 15% /
```

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

```
Vendor: HPE
Product: ProLiant DL385 Gen11
Product Family: ProLiant
Serial: DL385G11-006
```

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:

```
5x Hynix HMCT04MEERA129N 128 GB 4 rank 4800
3x Hynix HMCT04MEERA131N 128 GB 4 rank 4800
11x Hynix HMCT04MEERA133N 128 GB 4 rank 4800
5x Hynix HMCT04MEERA135N 128 GB 4 rank 4800
```

23. BIOS

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

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Platform Notes (Continued)

BIOS Vendor: HPE
BIOS Version: 2.90
BIOS Date: 01/09/2026
BIOS Revision: 2.90
Firmware Revision: 1.66

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

=====
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++

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Base Compiler Invocation (Continued)

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

```

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

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Base Optimization Flags (Continued)

Benchmarks using both C and C++ (continued):

```
-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:

```
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
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant DL385 Gen11

(2.25 GHz, AMD EPYC 9754)

SPECspeed®2026_int_base = 5.58

SPECspeed®2026_int_peak = 5.58

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jun-2023

Software Availability: Jan-2026

Peak Optimization Flags (Continued)

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>

SPEC CPU and SPECspeed 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 2026-02-06 05:13:49-0500.

Report generated on 2026-05-04 23:33:38 by CPU2026 PDF formatter (unknown).

Originally published on 2026-05-05.