



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

## Dell Inc.

SPECspeed®2026\_int\_base = 6.14

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECspeed®2026\_int\_peak = 6.14

CPU2026 License: 6573

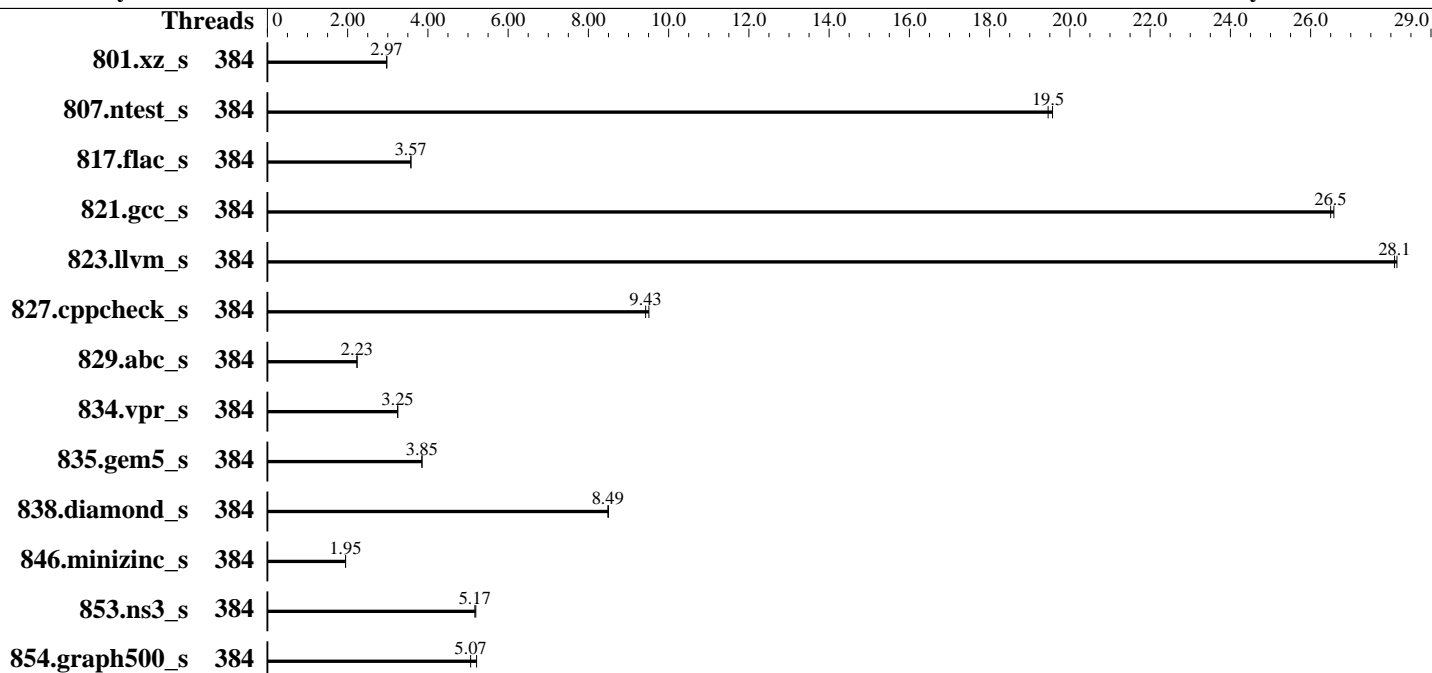
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Nov-2022

Tested by: Dell Inc.

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9654  
 Max MHz: 3700  
 Nominal: 2400  
 Enabled: 192 cores, 2 chips, 2 threads/core  
 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: 384 MB I+D on chip per chip, 32 MB shared / 8 cores  
 Other: None  
 Memory: 2304 GB (24 x 96 GB 2Rx4 PC5-5600B-R, running at 4800)  
 Storage: 200 GB on tmpfs  
 Cooling: Air  
 Other: CPU Cooling: Air

### Software

OS: Ubuntu 24.04 LTS  
 6.8.0-44-generic  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Version 1.15.3 released Oct-2025  
 File System: tmpfs  
 System State: Run level 5 (graphical multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other: None  
 Power Management: BIOS set to prefer performance at the cost of additional power usage.



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## Results Table

| Benchmark      | Base    |             |             |             |             |         | Peak  |         |             |             |             |             |         |       |
|----------------|---------|-------------|-------------|-------------|-------------|---------|-------|---------|-------------|-------------|-------------|-------------|---------|-------|
|                | Threads | Seconds     | Ratio       | Seconds     | Ratio       | Seconds | Ratio | Threads | Seconds     | Ratio       | Seconds     | Ratio       | Seconds | Ratio |
| 801.xz_s       | 384     | 199         | 2.98        | <u>199</u>  | <u>2.97</u> |         |       | 384     | 199         | 2.98        | <u>199</u>  | <u>2.97</u> |         |       |
| 807.ntest_s    | 384     | <b>58.6</b> | <u>19.5</u> | 58.3        | 19.6        |         |       | 384     | <b>58.6</b> | <u>19.5</u> | 58.3        | 19.6        |         |       |
| 817.flac_s     | 384     | <b>486</b>  | <u>3.57</u> | 485         | 3.58        |         |       | 384     | <b>486</b>  | <u>3.57</u> | 485         | 3.58        |         |       |
| 821.gcc_s      | 384     | 77.9        | 26.6        | <u>78.1</u> | <u>26.5</u> |         |       | 384     | 77.9        | 26.6        | <u>78.1</u> | <u>26.5</u> |         |       |
| 823.llvm_s     | 384     | 50.1        | 28.2        | <u>50.2</u> | <u>28.1</u> |         |       | 384     | 50.1        | 28.2        | <u>50.2</u> | <u>28.1</u> |         |       |
| 827.cppcheck_s | 384     | 118         | 9.51        | <u>119</u>  | <u>9.43</u> |         |       | 384     | 118         | 9.51        | <u>119</u>  | <u>9.43</u> |         |       |
| 829.abc_s      | 384     | 372         | 2.23        | <u>372</u>  | <u>2.23</u> |         |       | 384     | 372         | 2.23        | <u>372</u>  | <u>2.23</u> |         |       |
| 834.vpr_s      | 384     | <b>294</b>  | <u>3.25</u> | 294         | 3.25        |         |       | 384     | <b>294</b>  | <u>3.25</u> | 294         | 3.25        |         |       |
| 835.gem5_s     | 384     | <b>296</b>  | <u>3.85</u> | 296         | 3.85        |         |       | 384     | <b>296</b>  | <u>3.85</u> | 296         | 3.85        |         |       |
| 838.diamond_s  | 384     | <b>118</b>  | <u>8.49</u> | 118         | 8.50        |         |       | 384     | <b>118</b>  | <u>8.49</u> | 118         | 8.50        |         |       |
| 846.minizinc_s | 384     | 344         | 1.95        | <b>344</b>  | <u>1.95</u> |         |       | 384     | 344         | 1.95        | <b>344</b>  | <u>1.95</u> |         |       |
| 853.ns3_s      | 384     | 222         | 5.19        | <u>223</u>  | <u>5.17</u> |         |       | 384     | 222         | 5.19        | <u>223</u>  | <u>5.17</u> |         |       |
| 854.graph500_s | 384     | 117         | 5.21        | <u>121</u>  | <u>5.07</u> |         |       | 384     | 117         | 5.21        | <u>121</u>  | <u>5.07</u> |         |       |

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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,

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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 = "0-383"
LD_LIBRARY_PATH =
  "/mnt/ramdisk/cpu2026rc2/amd_speed_aocc510_flang22_znver5_A_lib/lib:/mnt
  /ramdisk/cpu2026rc2/amd_speed_aocc510_flang22_znver5_A_lib/lib32:"
MALLOCONF = "retain:true"
```

## General Notes

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

Benchmark run from a 200 GB ramdisk created with the cmd: "mount -t tmpfs -o size=200G tmpfs /mnt/ramdisk"

## Platform Notes

BIOS Settings:

```
Virtualization Technology : Disabled
NUMA Nodes Per Socket : 4
```

```
System Profile : Custom
C-States : Disabled
```

```
Memory Patrol Scrub : Disabled
PCI ASPM L1 Link Power Management : Disabled
```

```
Determinism Slider : Power Determinism
Algorithm Performance Boost Disable : Enabled
```

```
ApbDis Fixed Socket P-State : P0
Dram Refresh Delay : Performance
```

```
DIMM Self Healing -
on Uncorrectable Memory Error : Disabled
```

```
Sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
```

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## Platform Notes (Continued)

running on H27JNZ3-R7625 Sat Feb 7 07:54:21 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 (255.4-1ubuntu8)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent\_hugepage
17. /sys/kernel/mm/transparent\_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

```
1. uname -srvm
Linux 6.8.0-44-generic #44-Ubuntu SMP PREEMPT_DYNAMIC Tue Aug 13 13:35:26 UTC 2024 x86_64
```

```
2. w
07:54:21 up 4 min, 1 user, load average: 0.59, 0.22, 0.08
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU  WHAT
root      tty1     -              07:51      53.00s     4.78s    2.39s /bin/bash
./amd_speed_aocc510_flang22_znver5_A1.sh
```

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

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### Platform Notes (Continued)

```
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                9286419
nofiles                1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                 0
```

```
-----
5. sysinfo process ancestry
/sbin/init
/bin/login -p --
-bash
/bin/bash /home/DellFiles/bin/DELL_speed.sh
/bin/bash /home/DellFiles/bin/dell-run-main.sh speed
/bin/bash /home/DellFiles/bin/dell-run-main.sh speed
/bin/bash /home/DellFiles/bin/AMD/dell-run-speccpu.sh speed --define DL-VERS=6.4_T17 --output_format
html,pdf,txt
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 2 --define
DL-VERS=6.4_T17 --output_format html,pdf,txt intspeerd
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=6.4_T17 --output_format html,pdf,txt --nopower --runmode speed --tune base --size
test:train:refspeed intspeerd --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.intspeerd.001.0.log --lognum 001.0 --from_runcpu 2
speeperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026rc2
```

```
-----
6. /proc/cpuinfo
model name      : AMD EPYC 9654 96-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 25
model          : 17
stepping       : 1
microcode      : 0xa101158
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srs0
TLB size       : 3584 4K pages
cpu cores      : 96
siblings       : 192
```

(Continued on next page)



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### Platform Notes (Continued)

```

2 physical ids (chips)
384 processors (hardware threads)
physical id 0: core ids 0-95
physical id 1: core ids 0-95
physical id 0: apicids 0-191
physical id 1: apicids 256-447

```

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):                      384
On-line CPU(s) list:         0-383
Vendor ID:                   AuthenticAMD
BIOS Vendor ID:              AMD
Model name:                  AMD EPYC 9654 96-Core Processor
BIOS Model name:             AMD EPYC 9654 96-Core Processor           CPU @ 2.4GHz
BIOS CPU family:             107
CPU family:                  25
Model:                       17
Thread(s) per core:         2
Core(s) per socket:         96
Socket(s):                   2
Stepping:                    1
Frequency boost:             enabled
CPU(s) scaling MHz:         42%
CPU max MHz:                 3707.8120
CPU min MHz:                 1500.0000
BogoMIPS:                    4800.14

```

```

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 extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpxt
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

```

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### Platform Notes (Continued)

```

user_shstk avx512_bf16 clzero irperf xsaveerptr rdpru wbnoinvd
amd_ppin cppc 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
L1d cache: 6 MiB (192 instances)
L1i cache: 6 MiB (192 instances)
L2 cache: 192 MiB (192 instances)
L3 cache: 768 MiB (24 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-23,192-215
NUMA node1 CPU(s): 24-47,216-239
NUMA node2 CPU(s): 48-71,240-263
NUMA node3 CPU(s): 72-95,264-287
NUMA node4 CPU(s): 96-119,288-311
NUMA node5 CPU(s): 120-143,312-335
NUMA node6 CPU(s): 144-167,336-359
NUMA node7 CPU(s): 168-191,360-383
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
always-on; RSB filling; PBRSE-eIBRS Not affected; BHI Not affected
Vulnerability Srbds: Not affected
Vulnerability Tsx async abort: Not affected

```

From lscpu --cache:

| NAME | ONE-SIZE | ALL-SIZE | WAYS | TYPE        | LEVEL | SETS  | PHY-LINE | COHERENCY-SIZE |
|------|----------|----------|------|-------------|-------|-------|----------|----------------|
| L1d  | 32K      | 6M       | 8    | Data        | 1     | 64    | 1        | 64             |
| L1i  | 32K      | 6M       | 8    | Instruction | 1     | 64    | 1        | 64             |
| L2   | 1M       | 192M     | 8    | Unified     | 2     | 2048  | 1        | 64             |
| L3   | 32M      | 768M     | 16   | Unified     | 3     | 32768 | 1        | 64             |

8. numactl --hardware

NOTE: a numactl 'node' might or might not correspond to a physical chip.  
available: 8 nodes (0-7)

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## Platform Notes (Continued)

```

node 0 cpus: 0-23,192-215
node 0 size: 289766 MB
node 0 free: 288548 MB
node 1 cpus: 24-47,216-239
node 1 size: 290286 MB
node 1 free: 289753 MB
node 2 cpus: 48-71,240-263
node 2 size: 290286 MB
node 2 free: 289855 MB
node 3 cpus: 72-95,264-287
node 3 size: 290226 MB
node 3 free: 289776 MB
node 4 cpus: 96-119,288-311
node 4 size: 290286 MB
node 4 free: 289629 MB
node 5 cpus: 120-143,312-335
node 5 size: 290286 MB
node 5 free: 289832 MB
node 6 cpus: 144-167,336-359
node 6 size: 290286 MB
node 6 free: 289605 MB
node 7 cpus: 168-191,360-383
node 7 size: 290252 MB
node 7 free: 275452 MB
node distances:
node  0  1  2  3  4  5  6  7
  0:  10 12 12 12 32 32 32 32
  1:  12 10 12 12 32 32 32 32
  2:  12 12 10 12 32 32 32 32
  3:  12 12 12 10 32 32 32 32
  4:  32 32 32 32 10 12 12 12
  5:  32 32 32 32 12 10 12 12
  6:  32 32 32 32 12 12 10 12
  7:  32 32 32 32 12 12 12 10

```

```

-----
9. /proc/meminfo
   MemTotal:          2377395880 kB

```

```

-----
10. who -r
    run-level 5 Feb 7 07:50

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-lubuntu8)
    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 lm-sensors lvm2-monitor multipathd
                networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb
                sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved
                systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw 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 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-6.8.0-44-generic
root=UUID=8458ae54-58cc-4621-9289-b1d743fde503
ro

```

### 14. cpupower frequency-info

```

analyzing CPU 349:
  current policy: frequency should be within 1.50 GHz and 2.40 GHz.
                  The governor "schedutil" may decide which speed to use
                  within this range.

boost state support:
  Supported: yes
  Active: yes
  Boost States: 0
  Total States: 3
  Pstate-P0: 2400MHz

```

### 15. 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

```

(Continued on next page)



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## Platform Notes (Continued)

```

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

```

```

-----
16. /sys/kernel/mm/transparent_hugepage
defrag      [always] defer defer+madvice madvice never
enabled     [always] madvice never
hpage_pmd_size  2097152
shmem_enabled  always within_size advise [never] deny force

```

```

-----
17. /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

```

```

-----
18. OS release
From /etc/*-release /etc/*-version
os-release Ubuntu 24.04 LTS

```

```

-----
19. Disk information
SPEC is set to: /mnt/ramdisk/cpu2026rc2
Filesystem      Type  Size  Used Avail Use% Mounted on
tmpfs           tmpfs 200G  11G 190G   6% /mnt/ramdisk

```

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:          Dell Inc.
Product:         PowerEdge R7625
Product Family: PowerEdge

```

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# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 6.14

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECspeed®2026\_int\_peak = 6.14

CPU2026 License: 6573

Test Sponsor: Dell Inc.

Tested by: Dell Inc.

Test Date: Feb-2026

Hardware Availability: Nov-2022

Software Availability: Jan-2026

## Platform Notes (Continued)

Serial: H27JNZ3

### 21. 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:

24x 802C0000802C MTC40F204WS1RC56BB1 96 GB 2 rank 5600, configured at 4800

### 22. BIOS

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

BIOS Vendor: Dell Inc.

BIOS Version: 1.15.3

BIOS Date: 10/29/2025

BIOS Revision: 1.15

## 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)

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Software Availability: Jan-2026

## Compiler Version Notes (Continued)

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

## 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 -fltto  
-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

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Tested by: Dell Inc.

Software Availability: Jan-2026

## Base Optimization Flags (Continued)

C benchmarks (continued):

-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:

854.graph500\_s:basepeak = yes

C++ benchmarks:

807.ntest\_s:basepeak = yes

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CPU2026 License: 6573

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Tested by: Dell Inc.

Test Date: Feb-2026

Hardware Availability: Nov-2022

Software Availability: Jan-2026

## Peak Optimization Flags (Continued)

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/aocc-flags.html>

<http://www.spec.org/cpu2026/results/flags/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.8.html>

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

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

<http://www.spec.org/cpu2026/results/flags/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.8.xml>

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