



# SPEC CPU®2026 Floating Point Speed Result

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## Dell Inc.

SPECspeed®2026\_fp\_base = 18.6

PowerEdge M7725 (AMD EPYC 9755 128-Core Processor)

SPECspeed®2026\_fp\_peak = 18.6

CPU2026 License: 6573

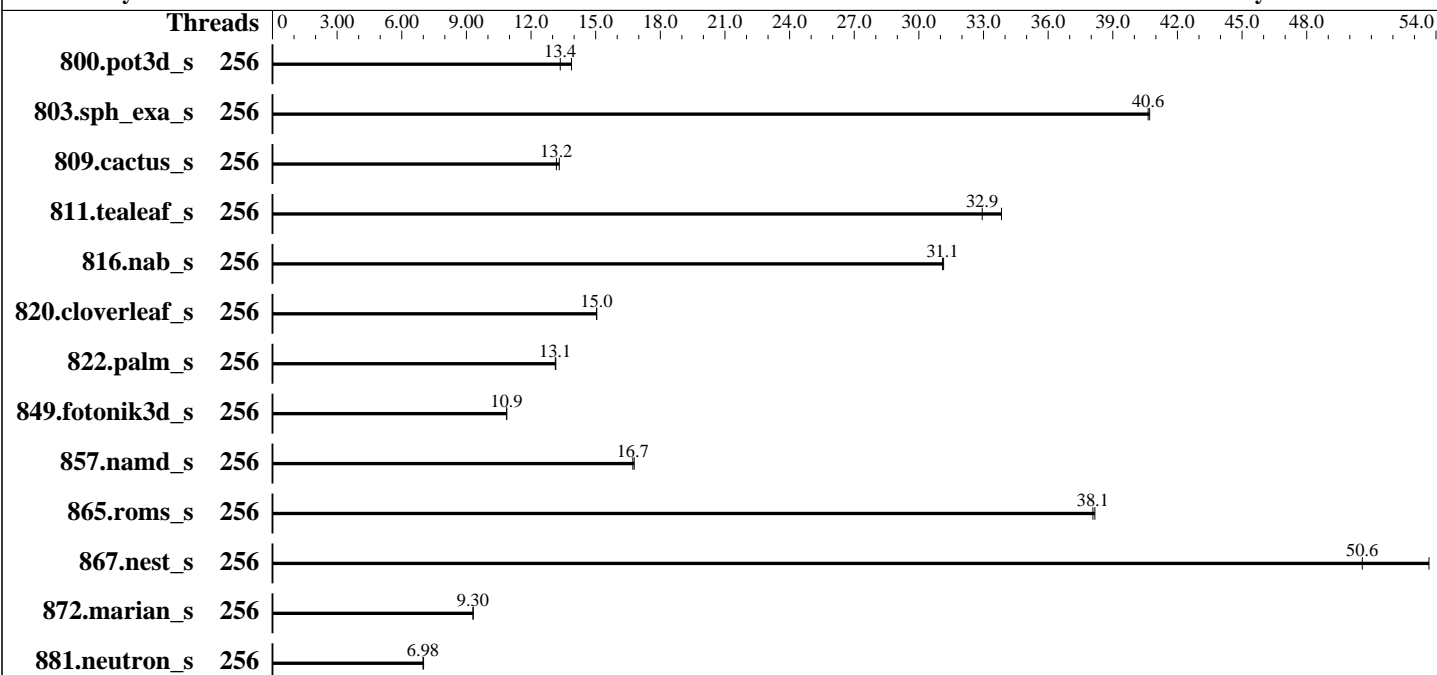
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Jan-2025

Tested by: Dell Inc.

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9755  
 Max MHz: 4100  
 Nominal: 2700  
 Enabled: 256 cores, 2 chips  
 Orderable: 1,2 chips  
 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 (24 x 64 GB 2Rx4 PC5-6400B-R)  
 Storage: 150 GB on tmpfs  
 Cooling: DLC  
 Other: None

### Software

OS: Ubuntu 24.04.1 LTS  
 6.8.0-57-generic  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Version 1.5.3 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 and OS 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
800.pot3d_s	256	48.5	13.9	<u>50.4</u>	<u>13.4</u>			256	48.5	13.9	<u>50.4</u>	<u>13.4</u>		
803.sph_exa_s	256	30.4	40.7	<u>30.5</u>	<u>40.6</u>			256	30.4	40.7	<u>30.5</u>	<u>40.6</u>		
809.cactus_s	256	<u>85.2</u>	<u>13.2</u>	84.3	13.3			256	<u>85.2</u>	<u>13.2</u>	84.3	13.3		
811.tealeaf_s	256	16.5	33.8	<u>16.9</u>	<u>32.9</u>			256	16.5	33.8	<u>16.9</u>	<u>32.9</u>		
816.nab_s	256	36.2	31.1	<u>36.2</u>	<u>31.1</u>			256	36.2	31.1	<u>36.2</u>	<u>31.1</u>		
820.cloverleaf_s	256	57.0	15.0	<u>57.0</u>	<u>15.0</u>			256	57.0	15.0	<u>57.0</u>	<u>15.0</u>		
822.palm_s	256	93.4	13.1	<u>93.6</u>	<u>13.1</u>			256	93.4	13.1	<u>93.6</u>	<u>13.1</u>		
849.fotonik3d_s	256	60.7	10.9	<u>60.7</u>	<u>10.9</u>			256	60.7	10.9	<u>60.7</u>	<u>10.9</u>		
857.namd_s	256	<u>86.8</u>	<u>16.7</u>	86.5	16.8			256	<u>86.8</u>	<u>16.7</u>	86.5	16.8		
865.roms_s	256	28.6	38.2	<u>28.6</u>	<u>38.1</u>			256	28.6	38.2	<u>28.6</u>	<u>38.1</u>		
867.nest_s	256	<u>42.7</u>	<u>50.6</u>	40.2	53.7			256	<u>42.7</u>	<u>50.6</u>	40.2	53.7		
872.marian_s	256	<u>116</u>	<u>9.30</u>	116	9.32			256	<u>116</u>	<u>9.30</u>	116	9.32		
881.neutron_s	256	116	7.01	<u>117</u>	<u>6.98</u>			256	116	7.01	<u>117</u>	<u>6.98</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 = "0-255"
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 150 GB ramdisk created with the cmd: "mount -t tmpfs -o size=150G tmpfs /mnt/ramdisk"

## Platform Notes

BIOS Settings:

```
Logical Processor : Disabled
Virtualization Technology : Disabled

System Profile : Custom
CPU Power Management : Maximum Performance
C-States : Disabled
Memory Patrol Scrub : Disabled
PCI ASPM L1 Link Power Management : Disabled
Periodic Directory Rinse Tuning : Blended
Determinism Control : Manual
Determinism Slider : Power Determinism
Optimizer Mode : Enabled
Algorithm Performance Boost Disable : Enabled
ApbDis Fixed DF P-State : P0
Adaptive Allocation : Enabled
Dram Refresh Delay : Performance
```

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## Platform Notes (Continued)

sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on M772501-M7725 Sat Feb 7 12:30:12 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-lubuntu8.4)
12. Failed units, from systemctl list-units --state=failed
13. Services, from systemctl list-unit-files
14. Linux kernel boot-time arguments, from /proc/cmdline
15. cpupower frequency-info
16. tuned-adm active
17. sysctl
18. /sys/kernel/mm/transparent\_hugepage
19. /sys/kernel/mm/transparent\_hugepage/khugepaged
20. OS release
21. Disk information
22. /sys/devices/virtual/dmi/id
23. dmidecode
24. BIOS

```
1. uname -srvm
Linux 6.8.0-57-generic #59-Ubuntu SMP PREEMPT_DYNAMIC Sat Mar 15 17:40:59 UTC 2025 x86_64
```

```
2. w
12:30:12 up 1:01, 1 user, load average: 0.32, 0.08, 0.03
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
root      tty1    -             12:27       36.00s     2.18s     1.12s     /bin/bash
./amd_speed_aocc510_flang22_znver5_A1.sh
```

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### Platform Notes (Continued)

3. Username

From environment variable \$USER: root

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                6189143
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=7.0_T01 --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=7.0_T01 --output_format html,pdf,txt fpspeed
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=7.0_T01 --output_format html,pdf,txt --nopower --runmode speed --tune base --size
test:train:refspeed fpspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.fpspeed.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026rc2

```

6. /proc/cpuinfo

```

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

```

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### Platform Notes (Continued)

```

bugs                : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size           : 192 4K pages
cpu cores          : 128
siblings           : 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:       AMD
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:   1
Core(s) per socket:   128
Socket(s):            2
Stepping:             1
BogoMIPS:             5391.48
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

```

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## Platform Notes (Continued)

```

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 bpext
perfctr_llc mwaitx cpb cat_l3 cdp_l3 hw_pstate ssbd mba perfmon_v2
ibrs ibpb stibp ibrs_enhanced vmmcall fsgsbase tsc_adjust bmi1 avx2
smep bmi2 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 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 avx512_vp2intersect

```

```

L1d cache: 12 MiB (256 instances)
L1i cache: 8 MiB (256 instances)
L2 cache: 256 MiB (256 instances)
L3 cache: 1 GiB (32 instances)
NUMA node(s): 2
NUMA node0 CPU(s): 0-127
NUMA node1 CPU(s): 128-255
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Reg file data sampling: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP
disabled; 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	48K	12M	12	Data	1	64	1	64
L1i	32K	8M	8	Instruction	1	64	1	64
L2	1M	256M	16	Unified	2	1024	1	64
L3	32M	1G	16	Unified	3	32768	1	64

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### Platform Notes (Continued)

8. numactl --hardware

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

```

available: 2 nodes (0-1)
node 0 cpus: 0-127
node 0 size: 773358 MB
node 0 free: 771359 MB
node 1 cpus: 128-255
node 1 size: 774001 MB
node 1 free: 758801 MB
node distances:
node  0  1
  0:  10 32
  1:  32 10

```

9. /proc/meminfo

MemTotal: 1584496868 kB

10. who -r

run-level 5 Feb 7 11:28

11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.4)

```

Default Target Status
graphical      degraded

```

12. Failed units, from systemctl list-units --state=failed

```

UNIT                                LOAD  ACTIVE SUB    DESCRIPTION
* cxl-monitor.service              loaded failed failed CXL Monitor Daemon
* fwupd-refresh.service            loaded failed failed Refresh fwupd metadata and update motd
Legend: LOAD -> Reflects whether the unit definition was properly loaded.
          ACTIVE -> The high-level unit activation state, i.e. generalization of SUB.
          SUB -> The low-level unit activation state, values depend on unit type.
2 loaded units listed.

```

13. 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 cxl-monitor 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 tuned ua-reboot-cmds ubuntu-advantage udisks2
ufw vgauth

```

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### Platform Notes (Continued)

```

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

```

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

```

BOOT_IMAGE=/vmlinuz-6.8.0-57-generic
root=/dev/mapper/ubuntu--vg-ubuntu--lv
ro

```

-----  
15. cpupower frequency-info

```

analyzing CPU 120:
Unable to determine current policy
boost state support:
Supported: yes
Active: yes
Boost States: 0
Total States: 3
Pstate-P0: 2700MHz

```

-----  
16. tuned-adm active

Current active profile: throughput-performance

-----  
17. 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

```

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### Platform Notes (Continued)

```

vm.nr_overcommit_hugepages      0
vm.swappiness                    1
vm.watermark_boost_factor       15000
vm.watermark_scale_factor        10
vm.zone_reclaim_mode            1

```

```

-----
18. /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

```

```

-----
19. /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

```

```

-----
20. OS release
From /etc/*-release /etc/*-version
os-release Ubuntu 24.04.1 LTS

```

```

-----
21. Disk information
SPEC is set to: /mnt/ramdisk/cpu2026rc2
  Filesystem      Type      Size  Used Avail Use% Mounted on
  tmpfs           tmpfs    150G   11G  140G   7% /mnt/ramdisk

```

```

-----
22. /sys/devices/virtual/dmi/id
Vendor:          Dell Inc.
Product:         PowerEdge M7725
Product Family: PowerEdge
Serial:          M772501

```

```

-----
23. 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.

```

(Continued on next page)



# SPEC CPU®2026 Floating Point Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_fp\_base = 18.6

PowerEdge M7725 (AMD EPYC 9755 128-Core Processor)

SPECspeed®2026\_fp\_peak = 18.6

CPU2026 License: 6573  
Test Sponsor: Dell Inc.  
Tested by: Dell Inc.

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

## Platform Notes (Continued)

Memory:

1x 80CE000080CE M321R8GA0PB1-CCPQC 64 GB 2 rank 6400  
23x 80CE000080CE M321R8GA0PB2-CCPKC 64 GB 2 rank 6400

### 24. BIOS

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

BIOS Vendor: Dell Inc.  
BIOS Version: 1.5.3  
BIOS Date: 10/29/2025  
BIOS Revision: 1.5

## Compiler Version Notes

=====  
C | 811.tealeaf\_s(base) 816.nab\_s(base) 881.neutron\_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++ | 803.sph\_exa\_s(base) 857.namd\_s(base) 867.nest\_s(base)  
| 872.marian\_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 | 809.cactus\_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  
=====

=====  
Fortran | 800.pot3d\_s(base) 820.cloverleaf\_s(base) 822.palm\_s(base)  
| 849.fotonik3d\_s(base) 865.roms\_s(base)  
=====

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## Compiler Version Notes (Continued)

```
-----
flang version 22.1.0-rc2 (https://github.com/llvm/llvm-project
  a47b42eb9f9b302167b4fc413e6c92798d65dd0b)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/llvm/llvm-22.1.0-rc2/install/bin
-----
```

## Base Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Fortran benchmarks:

flang-22

Benchmarks using both C and C++:

clang++ clang

## Base Portability Flags

```
800.pot3d_s: -DSPEC_LP64
803.sph_exa_s: -DSPEC_LP64
809.cactus_s: -DSPEC_LP64
811.tealeaf_s: -DSPEC_LP64
816.nab_s: -DSPEC_LP64
820.cloverleaf_s: -DSPEC_LP64
822.palm_s: -DSPEC_LP64
849.fotonik3d_s: -DSPEC_LP64
857.namd_s: -DSPEC_LP64
865.roms_s: -DSPEC_LP64
867.nest_s: -fno-finite-math-only -DSPEC_LP64
872.marian_s: -DSPEC_LP64
881.neutron_s: -DSPEC_LP64
```



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## Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -fremap-arrays -fstrip-mining
-fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50 -zopt
-mrecip=none -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 -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt -fopenmp -DSPEC_OPENMP
-pthread -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

Fortran benchmarks:

```
-m64 -std=f2018 -O3 -flto -march=znver5 -fveclib=AMDLIBM
-ffast-math -funroll-loops -DSPEC_OPENMP -fopenmp
-fdo-concurrent-to-openmp=host -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 -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -fremap-arrays -fstrip-mining
-fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50 -zopt
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-mrecip=none -fopenmp -DSPEC_OPENMP -pthread -lamdalloc -lamdlibm
-fopenmp=libomp -lomp
```

## Base Other Flags

C benchmarks:

```
-Wno-return-type -Wno-unused-command-line-argument
```

Benchmarks using both C and C++:

```
-Wno-return-type -Wno-unused-command-line-argument
```



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**Hardware Availability:** Jan-2025

**Software Availability:** Jan-2026

## Peak Optimization Flags

C benchmarks:

811.tealeaf\_s: basepeak = yes

816.nab\_s: basepeak = yes

881.neutron\_s: basepeak = yes

C++ benchmarks:

803.sph\_exa\_s: basepeak = yes

857.namd\_s: basepeak = yes

867.nest\_s: basepeak = yes

872.marian\_s: basepeak = yes

Fortran benchmarks:

800.pot3d\_s: basepeak = yes

820.cloverleaf\_s: basepeak = yes

822.palm\_s: basepeak = yes

849.fotonik3d\_s: basepeak = yes

865.roms\_s: basepeak = yes

Benchmarks using both C and C++:

809.cactus\_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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