



# SPEC CPU®2026 Floating Point Speed Result

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## Dell Inc.

SPECspeed®2026\_fp\_base = 13.2

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECspeed®2026\_fp\_peak = 13.2

CPU2026 License: 6573

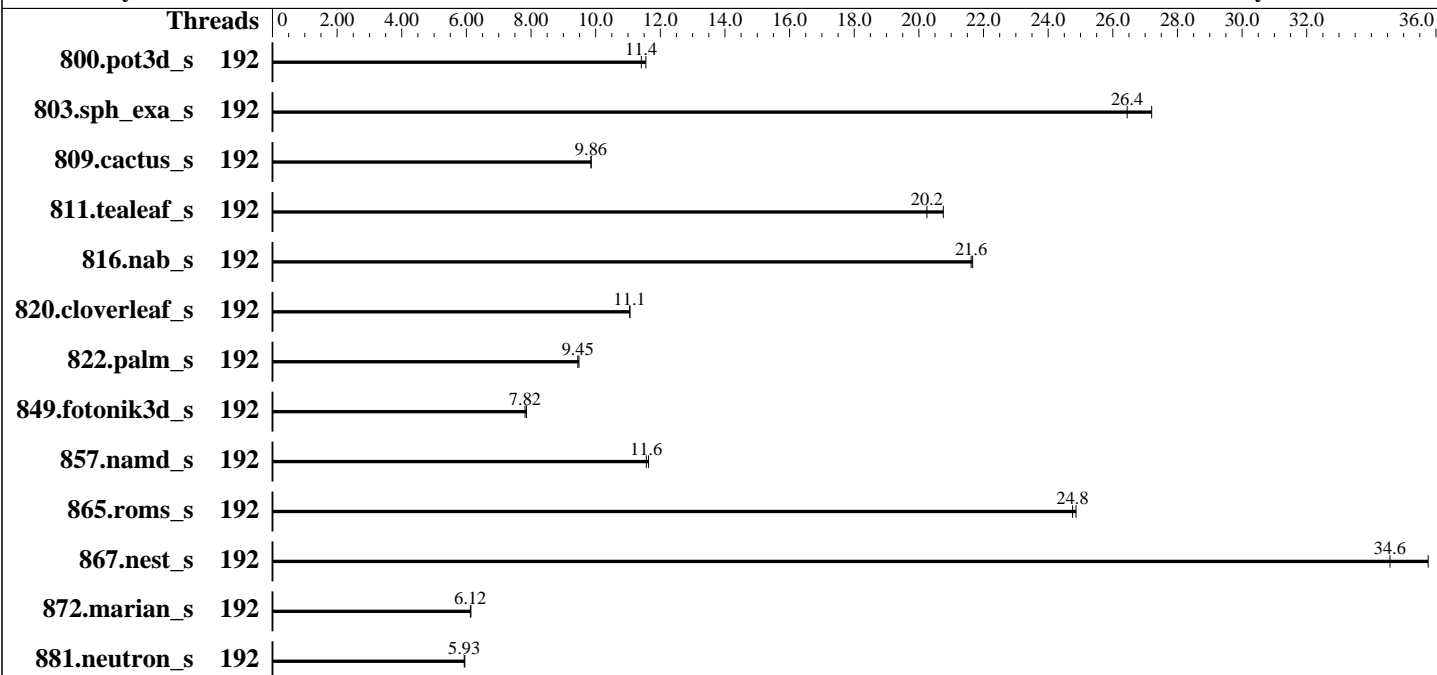
Test Date: Feb-2026

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  
 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: 120 GB on tmpfs  
 Cooling: Air  
 Other: None

### 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
800.pot3d_s	192	<u>59.0</u>	<u>11.4</u>	58.3	11.6			192	<u>59.0</u>	<u>11.4</u>	58.3	11.6		
803.sph_exa_s	192	<u>46.8</u>	<u>26.4</u>	45.5	27.2			192	<u>46.8</u>	<u>26.4</u>	45.5	27.2		
809.cactus_s	192	<u>114</u>	<u>9.86</u>	114	9.86			192	<u>114</u>	<u>9.86</u>	114	9.86		
811.tealeaf_s	192	<u>27.5</u>	<u>20.2</u>	26.8	20.8			192	<u>27.5</u>	<u>20.2</u>	26.8	20.8		
816.nab_s	192	<u>52.1</u>	<u>21.6</u>	52.0	21.7			192	<u>52.1</u>	<u>21.6</u>	52.0	21.7		
820.cloverleaf_s	192	77.5	11.1	<u>77.5</u>	<u>11.1</u>			192	77.5	11.1	<u>77.5</u>	<u>11.1</u>		
822.palm_s	192	<u>130</u>	<u>9.45</u>	129	9.48			192	<u>130</u>	<u>9.45</u>	129	9.48		
849.fotonik3d_s	192	<u>84.5</u>	<u>7.82</u>	84.0	7.86			192	<u>84.5</u>	<u>7.82</u>	84.0	7.86		
857.namd_s	192	<u>126</u>	<u>11.6</u>	125	11.6			192	<u>126</u>	<u>11.6</u>	125	11.6		
865.roms_s	192	43.8	24.9	<u>44.0</u>	<u>24.8</u>			192	43.8	24.9	<u>44.0</u>	<u>24.8</u>		
867.nest_s	192	60.4	35.8	<u>62.5</u>	<u>34.6</u>			192	60.4	35.8	<u>62.5</u>	<u>34.6</u>		
872.marian_s	192	<u>177</u>	<u>6.12</u>	176	6.14			192	<u>177</u>	<u>6.12</u>	176	6.14		
881.neutron_s	192	137	5.95	<u>137</u>	<u>5.93</u>			192	137	5.95	<u>137</u>	<u>5.93</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,

(Continued on next page)



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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 = "0-191"
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 120 GB ramdisk created with the cmd: "mount -t tmpfs -o size=120G tmpfs /mnt/ramdisk"

## Platform Notes

```
BIOS Settings:
      Logical Processor : Disabled
      Virtualization Technology : Disabled

      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 05:34:25 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
05:34:25 up 16 min, 1 user, load average: 0.71, 0.40, 0.62
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
root      tty1     -              05:19      50.00s     4.37s     2.30s     /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                9286963
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 fpspeed
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 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 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 srso
TLB size             : 3584 4K pages
cpu cores            : 96
siblings             : 96
```

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## Platform Notes (Continued)

2 physical ids (chips)  
192 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  
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  
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  
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  
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): 192  
On-line CPU(s) list: 0-191  
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: 1  
Core(s) per socket: 96  
Socket(s): 2  
Stepping: 1  
Frequency boost: enabled  
CPU(s) scaling MHz: 43%  
CPU max MHz: 3707.8120  
CPU min MHz: 1500.0000  
BogoMIPS: 4800.03

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 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 bmi1 avx2 smep bmi2  
erms invpcid cqm rdt\_a avx512f avx512dq rdseed adx smap avx512ifma  
clflushopt clwb avx512cd sha\_ni avx512bw avx512vl xsaveopt xsavec

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### Platform Notes (Continued)

```
xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local
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 pftthreshold 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): 2
NUMA node0 CPU(s): 0-95
NUMA node1 CPU(s): 96-191
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; PBRBS-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: 2 nodes (0-1)  
node 0 cpus: 0-95  
node 0 size: 1160661 MB  
node 0 free: 1159008 MB  
node 1 cpus: 96-191  
node 1 size: 1161149 MB

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### Platform Notes (Continued)

```
node 1 free: 1143019 MB
node distances:
node 0 1
  0: 10 32
  1: 32 10
```

---

```
9. /proc/meminfo
   MemTotal:      2377535172 kB
```

---

```
10. who -r
     run-level 5 Feb 7 05:18
```

---

```
11. Systemd service manager version: systemd 255 (255.4-lubuntu8)
     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 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 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-6.8.0-44-generic
     root=UUID=8458ae54-58cc-4621-9289-b1d743fde503
     ro
```

---

```
14. cpupower frequency-info
     analyzing CPU 23:
```

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## Platform Notes (Continued)

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
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+madvise madvise never
enabled         [always] madvise 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

```

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## Platform Notes (Continued)

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 120G 11G 110G 9% /mnt/ramdisk

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

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# SPEC CPU®2026 Floating Point Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_fp\_base = 13.2

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECspeed®2026\_fp\_peak = 13.2

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

Test Date: Feb-2026  
Hardware Availability: Nov-2022  
Software Availability: Jan-2026

## Compiler Version Notes (Continued)

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)

-----  
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



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## 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

```

## 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

```

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Software Availability: Jan-2026

## Base Optimization Flags (Continued)

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

-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

## 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

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## Peak Optimization Flags (Continued)

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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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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