



# SPEC CPU®2026 Floating Point Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

## Lenovo Global Technology

ThinkSystem SD535 V3  
(2.70 GHz, AMD EPYC 9755)

SPECspeed®2026\_fp\_base = 13.9

SPECspeed®2026\_fp\_peak = 13.9

CPU2026 License: 9017

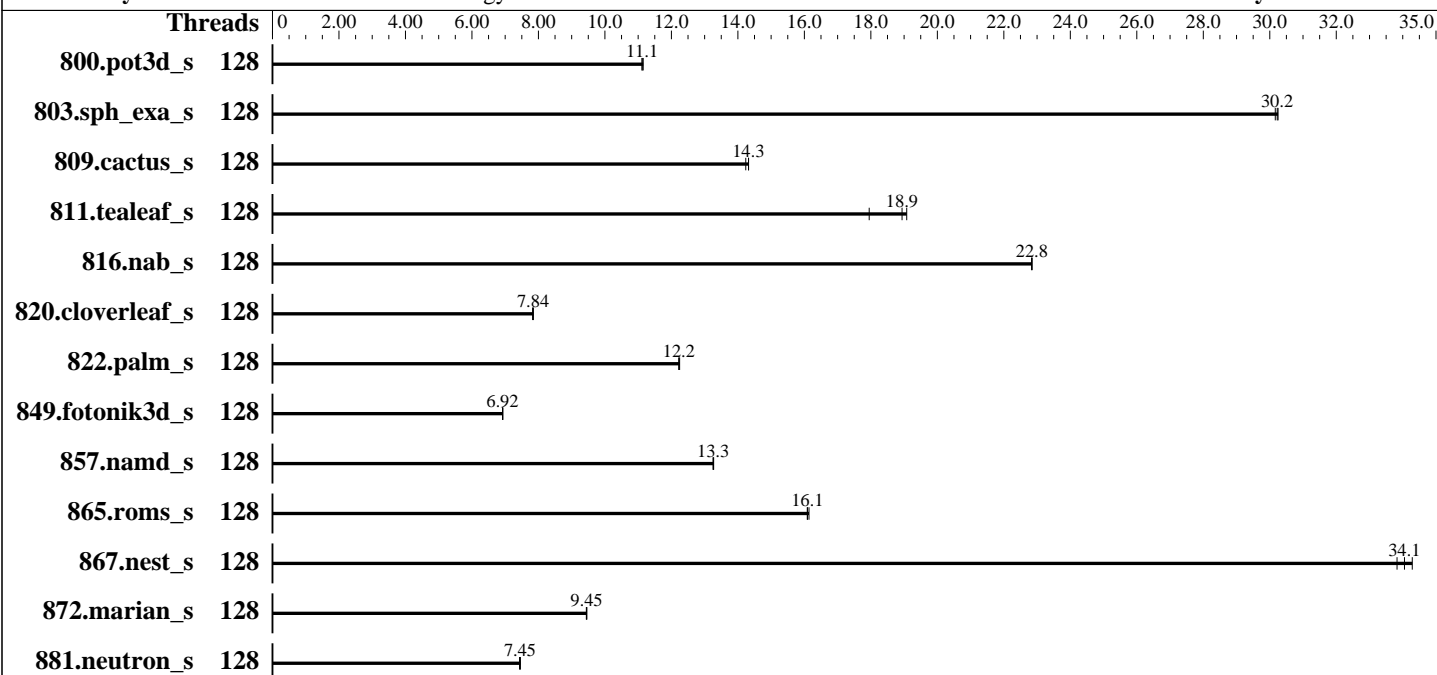
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9755  
 Max MHz: 4100  
 Nominal: 2700  
 Enabled: 128 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 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: 384 GB (12 x 32 GB 2Rx8 PC5-6400B-R)  
 Storage: 1 x 960 GB M.2 NVME SSD  
 Cooling: Air  
 Other: None

### Software

OS: SUSE Linux Enterprise Server 15 SP7  
 Kernel 6.4.0-150700.51-default  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Lenovo BIOS Version GPE123F 5.40 released Nov-2025  
 File System: xfs  
 System State: Run level 3 (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	128	<b>60.5</b>	<b>11.1</b>	60.5	11.1	60.4	11.2	128	<b>60.5</b>	<b>11.1</b>	60.5	11.1	60.4	11.2
803.sph_exa_s	128	<b>41.0</b>	<b>30.2</b>	41.0	30.2	40.9	30.2	128	<b>41.0</b>	<b>30.2</b>	41.0	30.2	40.9	30.2
809.cactus_s	128	<b>78.3</b>	<b>14.3</b>	78.3	14.3	78.8	14.2	128	<b>78.3</b>	<b>14.3</b>	78.3	14.3	78.8	14.2
811.tealeaf_s	128	31.0	18.0	<b>29.4</b>	<b>18.9</b>	29.2	19.1	128	31.0	18.0	<b>29.4</b>	<b>18.9</b>	29.2	19.1
816.nab_s	128	<b>49.3</b>	<b>22.8</b>	49.3	22.8	49.3	22.8	128	<b>49.3</b>	<b>22.8</b>	49.3	22.8	49.3	22.8
820.cloverleaf_s	128	<b>109</b>	<b>7.84</b>	110	7.83	109	7.85	128	<b>109</b>	<b>7.84</b>	110	7.83	109	7.85
822.palm_s	128	100	12.2	<b>100</b>	<b>12.2</b>	100	12.2	128	100	12.2	<b>100</b>	<b>12.2</b>	100	12.2
849.fotonik3d_s	128	95.2	6.93	<b>95.3</b>	<b>6.92</b>	95.4	6.92	128	95.2	6.93	<b>95.3</b>	<b>6.92</b>	95.4	6.92
857.namd_s	128	110	13.3	109	13.3	<b>109</b>	<b>13.3</b>	128	110	13.3	109	13.3	<b>109</b>	<b>13.3</b>
865.roms_s	128	67.5	16.1	67.8	16.1	<b>67.7</b>	<b>16.1</b>	128	67.5	16.1	67.8	16.1	<b>67.7</b>	<b>16.1</b>
867.nest_s	128	63.9	33.8	<b>63.4</b>	<b>34.1</b>	63.0	34.3	128	63.9	33.8	<b>63.4</b>	<b>34.1</b>	63.0	34.3
872.marian_s	128	<b>114</b>	<b>9.45</b>	115	9.44	114	9.46	128	<b>114</b>	<b>9.45</b>	115	9.44	114	9.46
881.neutron_s	128	110	7.43	109	7.46	<b>109</b>	<b>7.45</b>	128	110	7.43	109	7.46	<b>109</b>	<b>7.45</b>

SPECspeed®2026\_fp\_base = **13.9**

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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 = "0-127"  
LD\_LIBRARY\_PATH =  
"/home/cpu2026-0.902.0-amd\_aocc510\_znver5\_A1/amd\_speed\_aocc510\_flang22\_znver5\_A\_lib/lib:/home/cpu2026-0.902.0-amd\_aocc510\_znver5\_A1/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

### Platform Notes

BIOS configuration:  
Choose Operating Mode set to Maximum Performance and then set it to Custom Mode  
P-State set to Enabled  
GMI Folding set to Disabled

sysinfo program /home/cpu2026-0.902.0-amd\_aocc510\_znver5\_A1/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on localhost Fri Feb 6 07:11:33 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

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### Platform Notes (Continued)

- 6. /proc/cpuinfo
- 7. lscpu
- 8. numactl --hardware
- 9. /proc/meminfo
- 10. who -r
- 11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
- 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 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611) x86_64
```

```
2. w
07:11:33 up 3:56, 1 user, load average: 19.54, 52.50, 79.31
USER      TTY      FROM          LOGIN@      IDLE       JCPU      PCPU      WHAT
```

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

```
4. ulimit -a
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size                (blocks, -f) unlimited
pending signals         (-i) 1544790
max locked memory       (kbytes, -l) 2097152
max memory size         (kbytes, -m) unlimited
open files              (-n) 1024
pipe size                (512 bytes, -p) 8
POSIX message queues    (bytes, -q) 819200
real-time priority      (-r) 0
stack size              (kbytes, -s) unlimited
cpu time                (seconds, -t) unlimited
```

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### Platform Notes (Continued)

```
max user processes          (-u) 1544790
virtual memory              (kbytes, -v) unlimited
file locks                  (-x) unlimited
```

```
-----
5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@notty
/bin/bash ./02.remote_local_SPECcpu_1.02.sh
/bin/bash ./Run033-compliant-amd-speedfp_base.sh
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 fpspeed
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--nopower --runmode speed --tune base --size test:train:refspeed fpspeed --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.018/templogs/preenv.fpspeed.018.0.log --lognum 018.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-0.902.0-amd_aocc510_znver5_A1
```

```
-----
6. /proc/cpuinfo
model name      : AMD EPYC 9755 128-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 26
model          : 2
stepping       : 1
microcode      : 0xb002152
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso
TLB size       : 192 4K pages
cpu cores      : 128
siblings       : 256
1 physical ids (chips)
256 processors (hardware threads)
physical id 0: core ids 0-127
physical id 0: apicids 0-255
```

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 2.40.4:
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:          52 bits physical, 57 bits virtual
```

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### Platform Notes (Continued)

```

Byte Order:                Little Endian
CPU(s):                    256
On-line CPU(s) list:      0-255
Vendor ID:                 AuthenticAMD
Model name:               AMD EPYC 9755 128-Core Processor
CPU family:               26
Model:                    2
Thread(s) per core:       2
Core(s) per socket:       128
Socket(s):                1
Stepping:                 1
Frequency boost:          enabled
CPU(s) scaling MHz:       101%
CPU max MHz:              2700.0000
CPU min MHz:              1500.0000
BogoMIPS:                 5392.20
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 svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
                          osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpeext
                          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 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 avx_vnni avx512_bf16 clzero irperf
                          xsaveerptr rdpru wbnoinvd amd_ppin cppc amd_ibpb_ret arat npt lbrv
                          svm_lock nrrip_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 bus_lock_detect
                          movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect
                          flush_l1d debug_swap hv_inuse_wr_allowed srso_user_kernel_no
                          amd_lbr_pmc_freeze
Virtualization:            AMD-V
L1d cache:                6 MiB (128 instances)
L1i cache:                4 MiB (128 instances)
L2 cache:                 128 MiB (128 instances)
L3 cache:                 512 MiB (16 instances)
NUMA node(s):             1
NUMA node0 CPU(s):        0-255
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf:       Not affected

```

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### Platform Notes (Continued)

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; IBPB on VMEXIT only  
 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; PBR SB-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	6M	12	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64
L2	1M	128M	16	Unified	2	1024	1	64
L3	32M	512M	16	Unified	3	32768	1	64

8. numactl --hardware

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

available: 1 nodes (0)  
 node 0 cpus: 0-255  
 node 0 size: 386224 MB  
 node 0 free: 384803 MB  
 node distances:  
 node 0  
 0: 10

9. /proc/meminfo

MemTotal: 395493676 kB

10. who -r

run-level 3 Feb 6 03:15

11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)

Default Target Status  
 multi-user running

12. Services, from systemctl list-unit-files

STATE UNIT FILES

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### Platform Notes (Continued)

```

enabled      YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ irqbalance
              issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections
              nvme-autoconnect postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore wicked
              wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime  systemd-remount-fs
disabled      autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait
              chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info
              firewalld fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievdev issue-add-ssh-keys
              kexec-load lunmask man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd
              serial-getty@ smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures
              systemd-confext systemd-network-generator systemd-sysexec systemd-time-wait-sync
              systemd-timesyncd vncserver@
generated     ntp_sync
indirect      systemd-userdbd wickedd

```

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

```

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.51-default
root=UUID=0126fb62-e709-4305-a845-c454046a98f3
splash=silent
mitigations=auto
quiet
security=apparmor

```

#### 14. cpupower frequency-info

```

analyzing CPU 204:
  current policy: frequency should be within 1.50 GHz and 2.70 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.

boost state support:
  Supported: yes
  Active: yes

```

#### 15. sysctl

```

kernel.numa_balancing          0
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

```

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### Platform Notes (Continued)

```

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
scan_sleep_millisecs   10000

```

```

-----
18. OS release
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP7

```

```

-----
19. Disk information
SPEC is set to: /home/cpu2026-0.902.0-amd_aocc510_znver5_A1
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p3  xfs   890G  137G  753G  16% /

```

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:      Lenovo
Product:     ThinkSystem SD535 V3
Product Family: ThinkSystem
Serial:      1234567890

```

```

-----
21. dmidecode
Additional information from dmidecode 3.6 follows.  WARNING: Use caution when you interpret this section.

```

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### Platform Notes (Continued)

The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

Memory:

- 1x SK Hynix HMCG88AHBRA284N 32 GB 2 rank 6400
- 4x SK Hynix HMCG88AHBRA290N 32 GB 2 rank 6400
- 3x SK Hynix HMCG88AHBRA292N 32 GB 2 rank 6400
- 3x SK Hynix HMCG88AHBRA471N 32 GB 2 rank 6400
- 1x SK Hynix HMCG88AHBRA478N 32 GB 2 rank 6400

#### 22. BIOS

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

```

BIOS Vendor:      Lenovo
BIOS Version:    GPE123F-5.40
BIOS Date:       11/10/2025
BIOS Revision:   5.40
Firmware Revision: 10.10

```

### 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

```

(Continued on next page)



# SPEC CPU®2026 Floating Point Speed Result

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## Lenovo Global Technology

SPECspeed®2026\_fp\_base = 13.9

ThinkSystem SD535 V3  
(2.70 GHz, AMD EPYC 9755)

SPECspeed®2026\_fp\_peak = 13.9

**CPU2026 License:** 9017  
**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology

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

### Compiler Version Notes (Continued)

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

### 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

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Software Availability: Jan-2026

## Base Portability Flags (Continued)

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
-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
```

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CPU2026 License: 9017

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Tested by: Lenovo Global Technology

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026

## Base Other Flags (Continued)

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

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/Lenovo-Platform-SPECcpu-Flags-V1.2-Turin-M.html>

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



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**Test Date:** Feb-2026

**Hardware Availability:** Jul-2025

**Software Availability:** Jan-2026

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu-Flags-V1.2-Turin-M.xml>

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

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