



SPEC CPU®2026 Floating Point Rate Result

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Compal Electronics, Inc.

SR224-2A
AMD EPYC 9845

SPECrate®2026_fp_base = 914

SPECrate®2026_fp_peak = 939

CPU2026 License: 6857

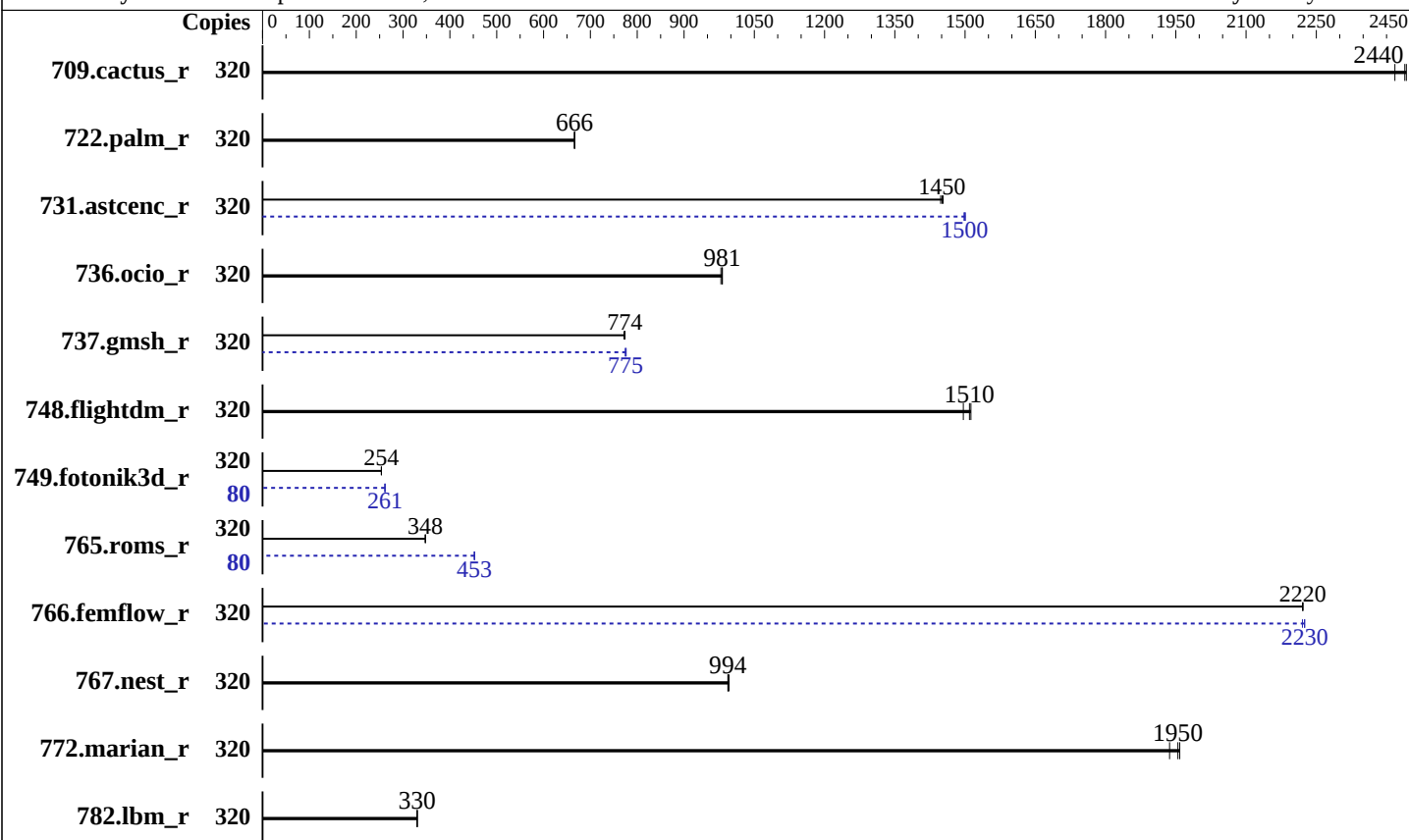
Test Sponsor: Compal Electronics, Inc.

Tested by: Compal Electronics, Inc.

Test Date: Jul-2026

Hardware Availability: Jul-2025

Software Availability: May-2026



Hardware

CPU Name: AMD EPYC 9845
Max MHz: 3700
Nominal: 2100
Enabled: 320 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: 320 MB I+D on chip per chip, 32 MB shared / 16 cores
Other: None
Memory: 3 TB (24 x 128 GB 2Rx4 PC5-6400B-R)

Storage: 1x3.84TB M.2 NVMe SSD
Cooling: Air
Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP6
kernel version 6.4.0-150600.21-default
Compiler: C/C++/Fortran: Version 5.2.0 of AOCC
Compiler Category: Vendor
Firmware: American Megatrends Version 10.28.00 released Jan-2026
File System: btrfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other: jemalloc: jemalloc memory allocator library v5.3.1
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
709.cactus_r	320	112	2440	114	2420	<u>113</u>	<u>2440</u>	320	112	2440	114	2420	<u>113</u>	<u>2440</u>
722.palm_r	320	634	667	<u>634</u>	<u>666</u>	635	666	320	634	667	<u>634</u>	<u>666</u>	635	666
731.astcenc_r	320	186	1450	185	1450	<u>185</u>	<u>1450</u>	320	179	1500	<u>179</u>	<u>1500</u>	179	1500
736.ocio_r	320	286	979	285	982	<u>285</u>	<u>981</u>	320	286	979	285	982	<u>285</u>	<u>981</u>
737.gmsh_r	320	<u>190</u>	<u>774</u>	190	774	190	772	320	<u>189</u>	<u>775</u>	189	776	190	774
748.flightdm_r	320	<u>152</u>	<u>1510</u>	153	1500	151	1510	320	<u>152</u>	<u>1510</u>	153	1500	151	1510
749.fotonik3d_r	320	<u>1458</u>	<u>254</u>	1457	254	1458	254	80	<u>354</u>	<u>261</u>	354	262	354	261
765.roms_r	320	1450	347	<u>1450</u>	<u>348</u>	1449	348	80	<u>278</u>	<u>453</u>	279	452	278	453
766.femflow_r	320	211	2220	<u>211</u>	<u>2220</u>	211	2220	320	<u>211</u>	<u>2230</u>	211	2230	211	2220
767.nest_r	320	255	996	<u>255</u>	<u>994</u>	255	994	320	255	996	<u>255</u>	<u>994</u>	255	994
772.marian_r	320	261	1940	<u>259</u>	<u>1950</u>	258	1960	320	261	1940	<u>259</u>	<u>1950</u>	258	1960
782.lbm_r	320	<u>555</u>	<u>330</u>	556	330	555	330	320	<u>555</u>	<u>330</u>	556	330	555	330

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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/>

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,
'sysctl -w vm.zone_reclaim_mode=1' run as root.
To clear filesystem caches, 'sync; sysctl -w vm.drop_caches=3' run as root.

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Operating System Notes (Continued)

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:

```
LD_LIBRARY_PATH =  
    "/cpu2026/amd_rate_aocc520_znver5_A_lib/lib:/cpu2026/amd_rate_aocc520_zn  
    ver5_A_lib/lib32:"  
MALLOC_CONF = "retain:true"
```

General Notes

Binaries were compiled on a system with 2x AMD EPYC Venice256 CPU + 2TiB Memory using Ubuntu 24.04
jemalloc: configured and built with GCC v15.2.0 in Ubuntu 24.04 (No options specified)
jemalloc 5.3.1 is available here:
<https://github.com/jemalloc/jemalloc/releases/tag/5.3.1>

Platform Notes

BIOS settings:

TDP: 400
Determinism Enable: Power
PPT: 400
NUMA Nodes Per Socket: NPS2
SMT Control : Disable
Power Profile Selection : High Performance Mode
ACPI CST C2 Latency : 18
DF Cstates: Disable
DRAM Scrub Time: Disable
Global C-state Control: Disable
L1 Stream HW Prefetcher: Disable
L2 Stream HW Prefetcher: Disable

Sysinfo program /cpu2026/bin/sysinfo
Rev: 779ab21020787073335a329f3a45e2cd
running on localhost Wed Jul 8 10:01:05 2026

SUT (System Under Test) info as seen by some common utilities.

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9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
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15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
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22. BIOS

1. uname -srvm
Linux 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86_64

2. w
10:01:05 up 3 min, 2 users, load average: 0.25, 0.09, 0.03
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root pts/0 192.168.68.2 09:58 18.00s 12.07s 10.91s python3 ./run_amd_rate_aocc520_znver5_A1.py

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

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Platform Notes (Continued)

```
pending signals          (-i) 12381202
max locked memory        (kbytes, -l) 2048
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
max user processes        (-u) 12381202
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@pts/0
-bash
python3 ./run_amd_rate_aocc520_znver5_A1.py
runcpu --config amd_rate_aocc520_znver5_A1.cfg --tune all --reportable --iterations 3 fprate
runcpu --configfile amd_rate_aocc520_znver5_A1.cfg --tune all --reportable --iterations 3 --nopower
--runmode rate --tune base:peak --size test:train:refrate fprate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.fprate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /cpu2026
```

6. /proc/cpuinfo

```
model name      : AMD EPYC 9845 160-Core Processor
vendor_id       : AuthenticAMD
cpu family      : 26
model           : 17
stepping        : 0
microcode       : 0xb101054
bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size       : 192 4K pages
cpu cores       : 160
siblings        : 160
2 physical ids (chips)
320 processors (hardware threads)
physical id 0:  core ids 0-159
physical id 1:  core ids 0-159
physical id 0:  apicids 0-159
physical id 1:  apicids 256-415
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for

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Platform Notes (Continued)

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):	320
On-line CPU(s) list:	0-319
Vendor ID:	AuthenticAMD
BIOS Vendor ID:	Advanced Micro Devices, Inc.
Model name:	AMD EPYC 9845 160-Core Processor
BIOS Model name:	AMD EPYC 9845 160-Core Processor
BIOS CPU family:	107
CPU family:	26
Model:	17
Thread(s) per core:	1
Core(s) per socket:	160
Socket(s):	2
Stepping:	0
Frequency boost:	enabled
CPU(s) scaling MHz:	100%
CPU max MHz:	3718.0000
CPU min MHz:	1200.0000
BogoMIPS:	4193.71
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 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 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 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 bus_lock_detect movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect

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Platform Notes (Continued)

```
flush_l1d debug_swap
Virtualization: AMD-V
L1d cache: 15 MiB (320 instances)
L1i cache: 10 MiB (320 instances)
L2 cache: 320 MiB (320 instances)
L3 cache: 640 MiB (20 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-79
NUMA node1 CPU(s): 80-159
NUMA node2 CPU(s): 160-239
NUMA node3 CPU(s): 240-319
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/swapgs 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	15M	12	Data	1	64	1	64
L1i	32K	10M	8	Instruction	1	64	1	64
L2	1M	320M	16	Unified	2	1024	1	64
L3	32M	640M	16	Unified	3	32768	1	64

8. `numactl --hardware`

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

```
available: 4 nodes (0-3)
node 0 cpus: 0-79
node 0 size: 773546 MB
node 0 free: 771888 MB
node 1 cpus: 80-159
node 1 size: 774084 MB
node 1 free: 772010 MB
node 2 cpus: 160-239
node 2 size: 774122 MB
node 2 free: 773596 MB
```

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Platform Notes (Continued)

```
node 3 cpus: 240-319
node 3 size: 773575 MB
node 3 free: 773051 MB
node distances:
node   0   1   2   3
  0:  10  12  32  32
  1:  12  10  32  32
  2:  32  32  10  12
  3:  32  32  12  10
```

```
-----
9. /proc/meminfo
   MemTotal:      3169617284 kB
```

```
-----
10. who -r
    run-level 3 Jul 8 09:57
```

```
-----
11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
    Default Target    Status
    multi-user        running
```

```
-----
12. Services, from systemctl list-unit-files
    STATE              UNIT FILES
enabled               ModemManager NetworkManager NetworkManager-dispatcher YaST2-Firstboot YaST2-Second-Stage
                        apparmor appstream-sync-cache auditd bluetooth chronyd cron display-manager getty@
                        irqbalance issue-generator kbdsettings kdump kdump-early kdump-notify klog lvm2-monitor
                        nscd nvme-fc-boot-connections nvme-fc-autoconnect postfix purge-kernels rollback rsyslog
                        smartd sshd systemd-pstore wpa_supplicant
enabled-runtime       systemd-remount-fs
disabled              NetworkManager-wait-online accounts-daemon autofs autostart-initscripts blk-availability
                        bluetooth-mesh boot-sysctl ca-certificates chrony-wait console-getty cups cups-browsed
                        debug-shell dnsmasq ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once haveged
                        hwloc-dump-hwdata ipmi ipmievd issue-add-ssh-keys kexec-load lunmask man-db-create
                        multipathd nfs nfs-blkmap nmb ostree-remount rpcbind rpmconfigcheck rsyncd rtkit-daemon
                        serial-getty@ smartd_generate_opts smb snmpd snmptrapd speech-dispatcherd
                        systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysext
                        systemd-time-wait-sync systemd-timesyncd udisks2 update-system-flatpaks upower vncserver@
                        wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny wpa_supplicant@
indirect              systemd-userdbd wickedd
```

```
-----
13. Linux kernel boot-time arguments, from /proc/cmdline
    BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default
    root=UUID=c2975461-237c-45df-8db4-1eb474e4f6c1
```

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Platform Notes (Continued)

```
splash=silent
mitigations=auto
quiet
security=apparmor
crashkernel=384M,high
crashkernel=72M,low
amd_pstate=passive
```

14. cpupower frequency-info

analyzing CPU 25:

current policy: frequency should be within 1.20 GHz and 3.72 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          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
```

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Platform Notes (Continued)

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 SP6
```

19. Disk information

SPEC is set to: /cpu2026

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0n1p2	btrfs	1.5T	51G	1.5T	4%	/

20. /sys/devices/virtual/dmi/id

```
Vendor:      COMPAL
Product:     COMPAL SERVER
Product Family: COMPAL
Serial:      7901567500001
```

21. dmidecode

Additional information from dmidecode 3.4 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 Micron Technology MTC40F2047S1RC64BB1 MXCC 128 GB 2 rank 6400

22. BIOS

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

```
BIOS Vendor:    American Megatrends International, LLC.
BIOS Version:    10.28.00
BIOS Date:      01/29/2026
BIOS Revision:   5.35
```



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Compiler Version Notes

=====
C | 782.lbm_r(base, peak)
=====

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin
=====

=====
C++ | 731.astcenc_r(base, peak) 736.ocio_r(base, peak)
| 748.flightdm_r(base, peak) 766.femflow_r(base, peak)
| 767.nest_r(base, peak) 772.marian_r(base, peak)
=====

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin
=====

=====
C++, C | 709.cactus_r(base, peak) 737.gmsh_r(base, peak)
=====

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin
=====

=====
Fortran | 722.palm_r(base, peak) 749.fotonik3d_r(base, peak) 765.roms_r(base,
| peak)
=====

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin
=====

Base Compiler Invocation

C benchmarks:
clang

C++ benchmarks:
clang++

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SPEC CPU®2026 Floating Point Rate Result

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SR224-2A
AMD EPYC 9845

SPECrate®2026_fp_base = 914

SPECrate®2026_fp_peak = 939

CPU2026 License: 6857

Test Sponsor: Compal Electronics, Inc.

Tested by: Compal Electronics, Inc.

Test Date: Jul-2026

Hardware Availability: Jul-2025

Software Availability: May-2026

Base Compiler Invocation (Continued)

Fortran benchmarks:

flang

Benchmarks using both C and C++:

clang++ clang

Base Portability Flags

736.ocio_r: -fno-finite-math-only

737.gmsh_r: -fno-fast-math

748.flightdm_r: -fno-reciprocal-math

767.nest_r: -fno-finite-math-only

Base Optimization Flags

C benchmarks:

-std=c18 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500 -fstrip-mining

-O3 -march=znver5 -fveclib=AMDLIBM -flto -fno-PIE -fno-plt

-ffast-math -fremap-arrays -mllvm -inline-threshold=1500 -ljemalloc

-lamdlibm

C++ benchmarks:

-std=c++17 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500 -O3

-march=znver5 -fveclib=AMDLIBM -flto -fno-PIE -fno-plt -ffast-math

-fvirtual-function-elimination -fvisibility=hidden

-mllvm -inline-threshold=1500 -ljemalloc -lamdlibm

Fortran benchmarks:

-std=f2008 -no-pie -O3 -march=znver5 -fveclib=AMDLIBM -flto

-fno-PIE -fno-plt -ffast-math -mllvm -fuse-tile-inner-loop -ljemalloc

-lamdlibm

Benchmarks using both C and C++:

-std=c++17 -std=c18 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500 -O3

-march=znver5 -fveclib=AMDLIBM -flto -fno-PIE -fno-plt -ffast-math

-fremap-arrays -mllvm -inline-threshold=1500

-fvirtual-function-elimination -fvisibility=hidden -ljemalloc

-lamdlibm



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Peak Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Fortran benchmarks:

flang

Benchmarks using both C and C++:

clang++ clang

Peak Portability Flags

736.ocio_r: -fno-finite-math-only

737.gmsl_r: -fno-fast-math

748.flightdm_r: -fno-reciprocal-math

767.nest_r: -fno-finite-math-only

Peak Optimization Flags

C benchmarks:

782.lbm_r: basepeak = yes

C++ benchmarks:

731.ascenc_r: -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

-Wl,-mllvm -Wl,-extra-inliner -O3 -march=znver5

-fveclib=AMDLIBM -flto -fno-PIE -fno-plt -ffast-math

-mllvm -unroll-threshold=100

-mllvm -loop-unswitch-threshold=200000

-mllvm -reduce-array-computations=3 -zopt -ljemalloc

-lamdlibm

736.ocio_r: basepeak = yes

748.flightdm_r: basepeak = yes

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Peak Optimization Flags (Continued)

766.femflow_r: -std=c++17 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500
-O3 -march=znver5 -fveclib=AMDLIBM -flto -fno-PIE
-fno-plt -ffast-math -fvirtual-function-elimination
-fvisibility=hidden -mllvm -inline-threshold=1500
-ljemalloc -lamdlibm

767.nest_r: basepeak = yes

772.marian_r: basepeak = yes

Fortran benchmarks:

722.palm_r: basepeak = yes

749.fotonik3d_r: -std=f2008 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3
-march=znver5 -fveclib=AMDLIBM -flto -fno-PIE -fno-plt
-ffast-math -Ofast -Mrecursive
-mllvm -reduce-array-computations=3
-fepilog-vectorization-of-inductions -zopt -ljemalloc
-lamdlibm

765.roms_r: Same as 749.fotonik3d_r

Benchmarks using both C and C++:

709.cactus_r: basepeak = yes

737.gmsh_r: -std=c++17 -std=c18 -no-pie
-Wl,-mllvm -Wl,-inline-threshold=1500 -O3 -march=znver5
-fveclib=AMDLIBM -flto -fno-PIE -fno-plt -ffast-math
-fremap-arrays -mllvm -inline-threshold=1500
-fvirtual-function-elimination -fvisibility=hidden
-ljemalloc -lamdlibm

The flags files that were used to format this result can be browsed at

http://www.spec.org/cpu2026/results/flags/Compal-Platform-Flags-Linux-AMD_V1.6.html

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.html>

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

http://www.spec.org/cpu2026/results/flags/Compal-Platform-Flags-Linux-AMD_V1.6.xml

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.xml>



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