SPEC CPU®2026 Integer Rate Result

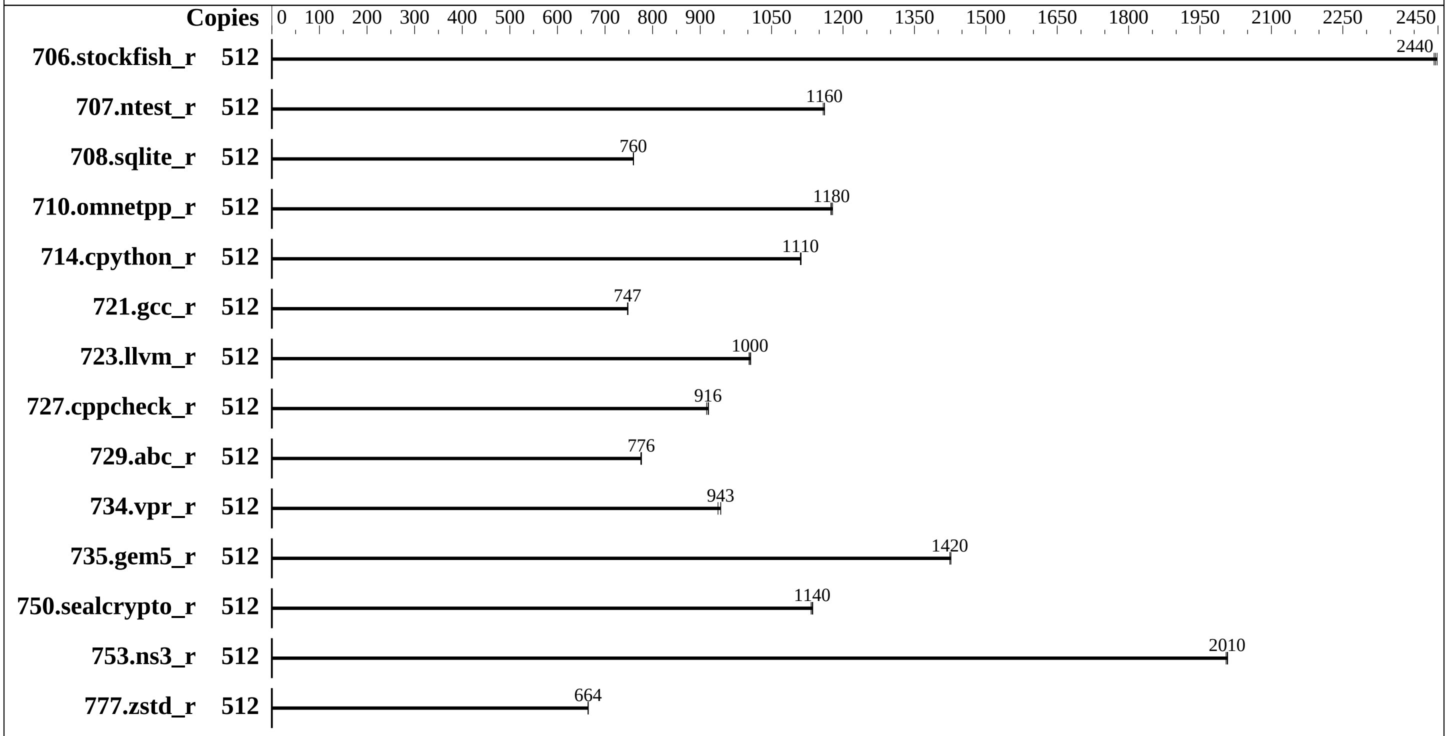
Compal Electronics, Inc.

SR224-2A
AMD EPYC 9755

SPECrate®2026_int_base = 1080

SPECrate®2026_int_peak = 1080

CPU2026 License:	6857	**Test Date:**	Aug-2026
Test Sponsor:	Compal Electronics, Inc.	**Hardware Availability:**	Jul-2025
Tested by:	Compal Electronics, Inc.	**Software Availability:**	May-2026



Hardware

CPU Name:	AMD EPYC 9755
Max MHz:	4100
Nominal:	2700
Enabled:	256 cores, 2 chips, 2 threads/core
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 2Rx8 PC5-6400B-R)
Storage:	1x3.84TB M.2 NVMe SSD
Cooling:	Air
Other:	None

Software

OS:	SUSE Linux Enterprise Server 15 SP7 kernel version 6.4.0-150700.51-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
706.stockfish_r	512	264	2450	**264**	**2440**	264	2440	512	264	2450	**264**	**2440**	264	2440
707.ntest_r	512	**261**	**1160**	262	1160	261	1160	512	**261**	**1160**	262	1160	261	1160
708.sqlite_r	512	356	760	**356**	**760**	356	759	512	356	760	**356**	**760**	356	759
710.omnetpp_r	512	211	1180	212	1170	**212**	**1180**	512	211	1180	212	1170	**212**	**1180**
714.cpython_r	512	221	1110	221	1110	**221**	**1110**	512	221	1110	221	1110	**221**	**1110**
721.gcc_r	512	**470**	**747**	470	747	469	748	512	**470**	**747**	470	747	469	748
723.llvm_r	512	**258**	**1000**	259	1000	258	1010	512	**258**	**1000**	259	1000	258	1010
727.cppcheck_r	512	201	913	**201**	**916**	200	918	512	201	913	**201**	**916**	200	918
729.abc_r	512	303	775	**303**	**776**	303	776	512	303	775	**303**	**776**	303	776
734.vpr_r	512	252	937	250	943	**250**	**943**	512	252	937	250	943	**250**	**943**
735.gem5_r	512	175	1430	**175**	**1420**	175	1420	512	175	1430	**175**	**1420**	175	1420
750.sealcrypto_r	512	**242**	**1140**	241	1140	242	1130	512	**242**	**1140**	241	1140	242	1130
753.ns3_r	512	157	2000	156	2010	**156**	**2010**	512	157	2000	156	2010	**156**	**2010**
777.zstd_r	512	496	664	496	665	**496**	**664**	512	496	664	496	665	**496**	**664**

SPECrate®2026_int_base = **1080**

SPECrate®2026_int_peak = **1080**

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.
```


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Operating System Notes (Continued)

```
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.
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: 500
 Determinism Enable: Power
 PPT: 500
 NUMA Nodes Per Socket: NPS4
 SMT Control : Enable
 Power Profile Selection : High Performance Mode
 ACPI CST C2 Latency : 18
 DF Cstates: Disable
 DRAM Scrub Time: Disable
 Global C-state Control: Disable
 SVM mode: Disable
 SMEE: disable
 GMI Folding: Disable

 Sysinfo program /cpu2026/bin/sysinfo
```

(Continued on next page)

Platform Notes (Continued)

```
Rev: 779ab21020787073335a329f3a45e2cd
running on localhost Wed Aug 12 23:48:40 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 254 (254.24+suse.148.g83b9060b6e)
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. sysctl
17. /sys/kernel/mm/transparent_hugepage
18. /sys/kernel/mm/transparent_hugepage/khugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id
22. dmidecode
23. 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
   23:48:40 up 5 min,  2 users,  load average: 0.61, 0.18, 0.06
  USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
  root     pts/0    192.168.68.2     23:45   43.00s 16.26s 15.20s python3 ./run_amd_rate_aocc520_znver5_A1.py

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

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Platform Notes (Continued)

```
------------------------------------------------------------
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) 6189424
  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) 6189424
  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 base --reportable --iterations 3 intrate
 runcpu --configfile amd_rate_aocc520_znver5_A1.cfg --tune base --reportable --iterations 3 --nopower
   --runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2026.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
 specperl $SPEC/bin/sysinfo
$SPEC = /cpu2026

------------------------------------------------------------
6. /proc/cpuinfo
    model name      : AMD EPYC 9755 128-Core Processor
    vendor_id       : AuthenticAMD
    cpu family      : 26
    model           : 2
    stepping        : 1
    microcode       : 0xb00215a
    bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso
    TLB size        : 192 4K pages
    cpu cores       : 128
    siblings        : 256
    2 physical ids (chips)
```

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Platform Notes (Continued)

```
    512 processors (hardware threads)
    physical id 0: core ids 0-127
    physical id 1: core ids 0-127
    physical id 0: apicids 0-255
    physical id 1: apicids 256-511
  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
  Byte Order:                        Little Endian
  CPU(s):                            512
  On-line CPU(s) list:               0-511
  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):                         2
  Stepping:                          1
  Frequency boost:                   enabled
  CPU(s) scaling MHz:                100%
  CPU max MHz:                       4121.0000
  CPU min MHz:                       1200.0000
  BogoMIPS:                          5391.91
  Flags:                             fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat
                                     pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb
                                     rdtscp lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid
                                     extd_apicid aperfmperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid
                                     sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm
                                     cmp_legacy extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
                                     osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb 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 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
```

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Platform Notes (Continued)

```
                                 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
  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):                  8
  NUMA node0 CPU(s):             0-31,256-287
  NUMA node1 CPU(s):             32-63,288-319
  NUMA node2 CPU(s):             64-95,320-351
  NUMA node3 CPU(s):             96-127,352-383
  NUMA node4 CPU(s):             128-159,384-415
  NUMA node5 CPU(s):             160-191,416-447
  NUMA node6 CPU(s):             192-223,448-479
  NUMA node7 CPU(s):             224-255,480-511
  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; IBPB on VMEXIT only
  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
                                        always-on; RSB filling; PBRSB-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

------------------------------------------------------------
8. numactl --hardware
NOTE: a numactl 'node' might or might not correspond to a physical chip.
  available: 8 nodes (0-7)
  node 0 cpus: 0-31,256-287
  node 0 size: 192977 MB
```

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AMD EPYC 9755

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SPECrate®2026_int_peak = 1080

CPU2026 License: 6857
Test Sponsor: Compal Electronics, Inc.
Tested by: Compal Electronics, Inc.
Test Date: Aug-2026
Hardware Availability: Jul-2025
Software Availability: May-2026

Platform Notes (Continued)

```
    node 0 free: 192394 MB
    node 1 cpus: 32-63,288-319
    node 1 size: 193518 MB
    node 1 free: 192982 MB
    node 2 cpus: 64-95,320-351
    node 2 size: 193518 MB
    node 2 free: 192958 MB
    node 3 cpus: 96-127,352-383
    node 3 size: 193518 MB
    node 3 free: 192809 MB
    node 4 cpus: 128-159,384-415
    node 4 size: 193518 MB
    node 4 free: 193061 MB
    node 5 cpus: 160-191,416-447
    node 5 size: 193518 MB
    node 5 free: 193064 MB
    node 6 cpus: 192-223,448-479
    node 6 size: 193518 MB
    node 6 free: 191686 MB
    node 7 cpus: 224-255,480-511
    node 7 size: 193292 MB
    node 7 free: 192829 MB
    node distances:
    node   0   1   2   3   4   5   6   7
      0:  10  12  12  12  32  32  32  32
      1:  12  10  12  12  32  32  32  32
      2:  12  12  10  12  32  32  32  32
      3:  12  12  12  10  32  32  32  32
      4:  32  32  32  32  10  12  12  12
      5:  32  32  32  32  12  10  12  12
      6:  32  32  32  32  12  12  10  12
      7:  32  32  32  32  12  12  12  10

  ------------------------------------------------------------
  9. /proc/meminfo
     MemTotal:       1584521528 kB

  ------------------------------------------------------------
  10. who -r
    run-level 3 Aug 12 23:43

  ------------------------------------------------------------
  11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
    Default Target  Status
    multi-user      degraded

  ------------------------------------------------------------
```

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Platform Notes (Continued)

```
12. Failed units, from systemctl list-units --state=failed
    UNIT                                  LOAD   ACTIVE SUB    DESCRIPTION
  * firewalld.service                    loaded failed failed firewalld - dynamic firewall daemon
  * kdump-early.service                  loaded failed failed Load kdump kernel early on startup
  * kdump.service                        loaded failed failed Load kdump kernel and initrd
  * NetworkManager-wait-online.service loaded failed failed Network Manager Wait Online

------------------------------------------------------------
13. Services, from systemctl list-unit-files
  STATE           UNIT FILES
  enabled         ModemManager NetworkManager NetworkManager-dispatcher NetworkManager-wait-online
                  YaST2-Firstboot YaST2-Second-Stage apparmor appstream-sync-cache auditd bluetooth chronyd
                  cron display-manager firewalld getty@ irqbalance issue-generator kbdsettings kdump
                  kdump-early kdump-notify klog lvm2-monitor nscd nvmefc-boot-connections nvmf-autoconnect
                  postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore wpa_supplicant
  enabled-runtime systemd-remount-fs
  disabled        accounts-daemon autofs autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl
                  ca-certificates chrony-wait console-getty cups cups-browsed debug-shell dnsmasq ebtables
                  exchange-bmc-os-info fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievd
                  issue-add-ssh-keys kexec-load ksm kvm_stat lunmask man-db-create mariadb mariadb@
                  multipathd munge nfs nfs-blkmap nmb ntp-wait ntpd ostree-remount ostree-state-overlay@
                  rpcbind rpmconfigcheck rsyncd rtkit-daemon salt-minion samba-bgqd serial-getty@ slurmd
                  smartd_generate_opts smb snmpd snmptrapd speech-dispatcherd svnserve
                  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@ ypbind
  indirect        systemd-userdbd wickedd
  masked          packagekit

------------------------------------------------------------
14. Linux kernel boot-time arguments, from /proc/cmdline
  BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.51-default
  root=UUID=03f2994f-ee68-4440-b1db-7d3f781cf8b4
  splash=silent
  mitigations=auto
  quiet
  security=apparmor
  crashkernel=380M,high
  crashkernel=72M,low,
  amd_pstate=passive

------------------------------------------------------------
15. cpupower frequency-info
  analyzing CPU 479:
    current policy: frequency should be within 1.20 GHz and 4.12 GHz.
                    The governor "performance" may decide which speed to use
                    within this range.
```

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Platform Notes (Continued)

```
    boost state support:
      Supported: yes
      Active: yes

------------------------------------------------------------
16. 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

------------------------------------------------------------
17. /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

------------------------------------------------------------
18. /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

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

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Platform Notes (Continued)

```
------------------------------------------------------------
20. Disk information
SPEC is set to: /cpu2026
  Filesystem     Type   Size  Used Avail Use% Mounted on
  /dev/nvme0n1p2 btrfs  1.0T   68G  955G   7% /

------------------------------------------------------------
21. /sys/devices/virtual/dmi/id
    Vendor:         COMPAL
    Product:        COMPAL SERVER
    Product Family: COMPAL
    Serial:         7901567500001

------------------------------------------------------------
22. dmidecode
  Additional information from dmidecode 3.7 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 Unknown A5-RE1BH64M64-RP1R4R 64 GIB 2 rank 6400


------------------------------------------------------------
23. 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
   Firmware Revision: 5.35
```

Compiler Version Notes

```
==============================================================================
C      | 708.sqlite_r(base) 714.cpython_r(base) 777.zstd_r(base)
------------------------------------------------------------------------------
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++    | 706.stockfish_r(base) 707.ntest_r(base) 727.cppcheck_r(base)
```

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Compiler Version Notes (Continued)

```
       | 753.ns3_r(base)
------------------------------------------------------------------------------
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 | 710.omnetpp_r(base) 721.gcc_r(base) 723.llvm_r(base) 729.abc_r(base)
       | 734.vpr_r(base) 735.gem5_r(base) 750.sealcrypto_r(base)
------------------------------------------------------------------------------
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++`

Benchmarks using both C and C++:
`clang++ clang`

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 -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 -fvirtual-function-elimination -fvisibility=hidden -mllvm -inline-threshold=1500 -stdlib=libc++ -ljemalloc -lamdlibm`

Benchmarks using both C and C++:
`-std=c++17 -std=c18 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500 -O3`

(Continued on next page)

Base Optimization Flags (Continued)

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

```
-march=znver5 -fveclib=AMDLIBM -flto -fno-PIE -fno-plt
-fremap-arrays -mllvm -inline-threshold=1500
-fvirtual-function-elimination -fvisibility=hidden -stdlib=libc++
-ljemalloc -lamdlibm
```

Peak Optimization Flags

C benchmarks:

708.sqlite_r: `basepeak = yes`

714.cpython_r: `basepeak = yes`

777.zstd_r: `basepeak = yes`

C++ benchmarks:

706.stockfish_r: `basepeak = yes`

707.ntest_r: `basepeak = yes`

727.cppcheck_r: `basepeak = yes`

753.ns3_r: `basepeak = yes`

Benchmarks using both C and C++:

710.omnetpp_r: `basepeak = yes`

721.gcc_r: `basepeak = yes`

723.llvm_r: `basepeak = yes`

729.abc_r: `basepeak = yes`

734.vpr_r: `basepeak = yes`

735.gem5_r: `basepeak = yes`

750.sealcrypto_r: `basepeak = yes`

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_V1.7.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_V1.7.xml
http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.xml

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

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