SPEC CPU®2026 Integer Rate Result

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Compal Electronics, Inc.

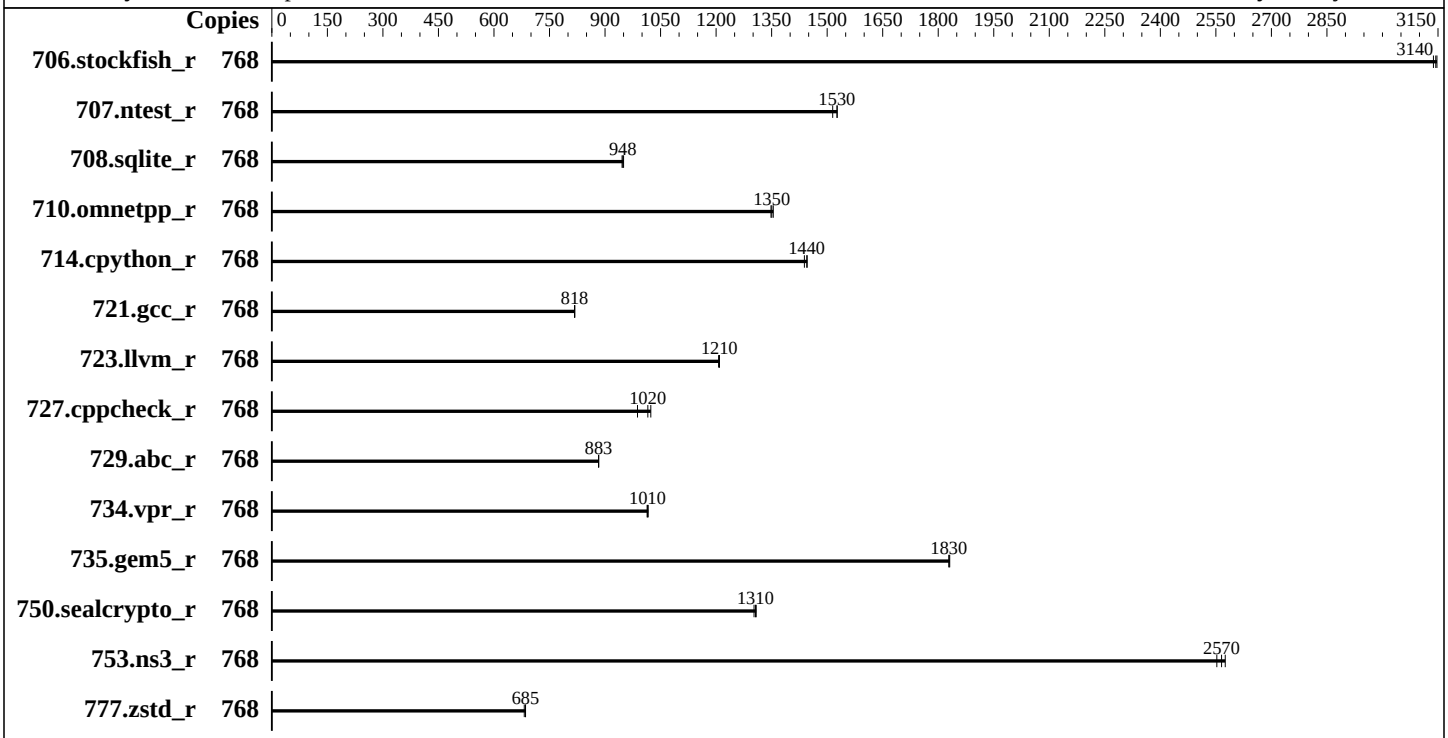
SR224-2A
AMD EPYC 9965

SPECrate®2026_int_base = 1290

SPECrate®2026_int_peak = 1290

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 9965
Max MHz:	3700
Nominal:	2250
Enabled:	384 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:	384 MB I+D on chip per chip, 32 MB shared / 16 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	768	**308**	**3140**	308	3140	307	3150	768	**308**	**3140**	308	3140	307	3150
707.ntest_r	768	**298**	**1530**	300	1510	298	1530	768	**298**	**1530**	300	1510	298	1530
708.sqlite_r	768	429	946	**428**	**948**	427	950	768	429	946	**428**	**948**	427	950
710.omnetpp_r	768	276	1350	277	1350	**276**	**1350**	768	276	1350	277	1350	**276**	**1350**
714.cpython_r	768	256	1440	254	1450	**255**	**1440**	768	256	1440	254	1450	**255**	**1440**
721.gcc_r	768	644	817	**644**	**818**	644	818	768	644	817	**644**	**818**	644	818
723.llvm_r	768	322	1210	**322**	**1210**	323	1210	768	322	1210	**322**	**1210**	323	1210
727.cppcheck_r	768	279	988	269	1020	**271**	**1020**	768	279	988	269	1020	**271**	**1020**
729.abc_r	768	399	882	399	883	**399**	**883**	768	399	882	399	883	**399**	**883**
734.vpr_r	768	349	1010	348	1020	**349**	**1010**	768	349	1010	348	1020	**349**	**1010**
735.gem5_r	768	**204**	**1830**	204	1830	204	1830	768	**204**	**1830**	204	1830	204	1830
750.sealcrypto_r	768	**315**	**1310**	316	1300	315	1310	768	**315**	**1310**	316	1300	315	1310
753.ns3_r	768	**184**	**2570**	184	2550	183	2580	768	**184**	**2570**	184	2550	183	2580
777.zstd_r	768	725	682	722	685	**722**	**685**	768	725	682	722	685	**722**	**685**

SPECrate®2026_int_base = 1290

SPECrate®2026_int_peak = 1290

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.
```

(Continued on next page)

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:/opt/AMD/aocc-compiler-5.2.0.sles15/ompd:/opt/AMD/aocc-
      compiler-5.2.0.sles15/lib:/opt/AMD/aocc-compiler-5.2.0.sles15/lib32::/us
      r/lib/x86_64-linux-gnu:/usr/lib64:/usr/lib32:/usr/lib:/usr/lib64:/usr/li
      b"
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 Control: Manual
 TDP: 500
 PPT Control: Manual
 PPT: 500
 NUMA Nodes Per Socket: NPS4
 SMT Control : Enable
 Power Profile Selection : High Performance Mode
 ACPI CST C2 Latency : 18
 DF Cstates: Disabled
 DRAM Scrub Time: Disabled
 Global C-state Control: Disabled
 L1 Stream HW Prefetcher: Disable
```

(Continued on next page)

Platform Notes (Continued)

```
 L2 Stream HW Prefetcher: Disable
 SVM mode: Disabled
 SMEE: Disable
 GMI encryption control: Disabled
 xGMI Encryption control: Disabled

 Sysinfo program /cpu2026/bin/sysinfo
 Rev: 779ab21020787073335a329f3a45e2cd
 running on localhost Thu Jul 30 09:56:56 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
    09:56:56 up 23:24,  5 users,  load average: 0.25, 0.08, 0.02
```

(Continued on next page)

Platform Notes (Continued)

```
   USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
   root     tty1     -                Wed10  23:23m  0.03s  0.03s -bash
  root     pts/0    192.168.68.2     Wed11  16.00s  2.07s  0.66s python3 ./run_amd_rate_aocc520_znver5_A1.py
   root     pts/1    192.168.68.2     Wed13    2:16   0.11s  0.11s -bash

------------------------------------------------------------
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) 6188550
  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) 6188550
  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 9965 192-Core Processor
    vendor_id       : AuthenticAMD
```

(Continued on next page)

Platform Notes (Continued)

```
     cpu family      : 26
     model           : 17
     stepping        : 0
     microcode       : 0xb101054
     bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso
     TLB size        : 192 4K pages
     cpu cores       : 192
     siblings        : 384
     2 physical ids (chips)
     768 processors (hardware threads)
     physical id 0: core ids 0-191
     physical id 1: core ids 0-191
     physical id 0: apicids 0-383
     physical id 1: apicids 512-895
   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):                                  768
   On-line CPU(s) list:                     0-767
   Vendor ID:                               AuthenticAMD
   Model name:                              AMD EPYC 9965 192-Core Processor
   CPU family:                              26
   Model:                                   17
   Thread(s) per core:                      2
   Core(s) per socket:                      192
   Socket(s):                               2
   Stepping:                                0
   Frequency boost:                         enabled
   CPU(s) scaling MHz:                      100%
   CPU max MHz:                             3700.0000
   CPU min MHz:                             1200.0000
   BogoMIPS:                                4493.07
   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
```

(Continued on next page)

Platform Notes (Continued)

```
                                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
                                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:                             18 MiB (384 instances)
  L1i cache:                             12 MiB (384 instances)
  L2 cache:                              384 MiB (384 instances)
  L3 cache:                              768 MiB (24 instances)
  NUMA node(s):                          8
  NUMA node0 CPU(s):                     0-47,384-431
  NUMA node1 CPU(s):                     48-95,432-479
  NUMA node2 CPU(s):                     96-143,480-527
  NUMA node3 CPU(s):                     144-191,528-575
  NUMA node4 CPU(s):                     192-239,576-623
  NUMA node5 CPU(s):                     240-287,624-671
  NUMA node6 CPU(s):                     288-335,672-719
  NUMA node7 CPU(s):                     336-383,720-767
  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      18M   12 Data            1    64        1             64
      L1i       32K      12M    8 Instruction     1    64        1             64
```

(Continued on next page)

Platform Notes (Continued)

```
      L2          1M      384M   16 Unified          2  1024        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: 8 nodes (0-7)
   node 0 cpus: 0-47,384-431
   node 0 size: 192877 MB
   node 0 free: 192217 MB
   node 1 cpus: 48-95,432-479
   node 1 size: 193510 MB
   node 1 free: 192743 MB
   node 2 cpus: 96-143,480-527
   node 2 size: 193510 MB
   node 2 free: 193011 MB
   node 3 cpus: 144-191,528-575
   node 3 size: 193510 MB
   node 3 free: 192764 MB
   node 4 cpus: 192-239,576-623
   node 4 size: 193510 MB
   node 4 free: 192938 MB
   node 5 cpus: 240-287,624-671
   node 5 size: 193510 MB
   node 5 free: 192727 MB
   node 6 cpus: 288-335,672-719
   node 6 size: 193472 MB
   node 6 free: 192970 MB
   node 7 cpus: 336-383,720-767
   node 7 size: 193263 MB
   node 7 free: 191481 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:       1584297752 kB

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

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Platform Notes (Continued)

```
 10. who -r
   run-level 3 Jul 30 09:55 last=5

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

 ------------------------------------------------------------
 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

 ------------------------------------------------------------
 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@ slurmctld
                   slurmd slurmdbd 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

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

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Platform Notes (Continued)

```
------------------------------------------------------------
15. cpupower frequency-info
  analyzing CPU 145:
    current policy: frequency should be within 1.20 GHz and 3.70 GHz.
                    The governor "performance" may decide which speed to use
                    within this range.
    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
```

(Continued on next page)

Platform Notes (Continued)

```
   pages_to_scan             4096
   scan_sleep_millisecs     10000

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

 ------------------------------------------------------------
 20. Disk information
 SPEC is set to: /cpu2026
   Filesystem     Type   Size  Used Avail Use% Mounted on
   /dev/nvme0n1p2 btrfs  1.0T   73G  950G   8% /

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

 ------------------------------------------------------------
 22. dmidecode
   Additional information from dmidecode 3.6 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 GB 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
```

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
```

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Compiler Version Notes (Continued)

```
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)
       | 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

(Continued on next page)

Base Optimization Flags (Continued)

C++ benchmarks (continued):
-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
-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

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Peak Optimization Flags (Continued)

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_V1.8.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_V1.8.xml`
`http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.xml`

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

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