



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

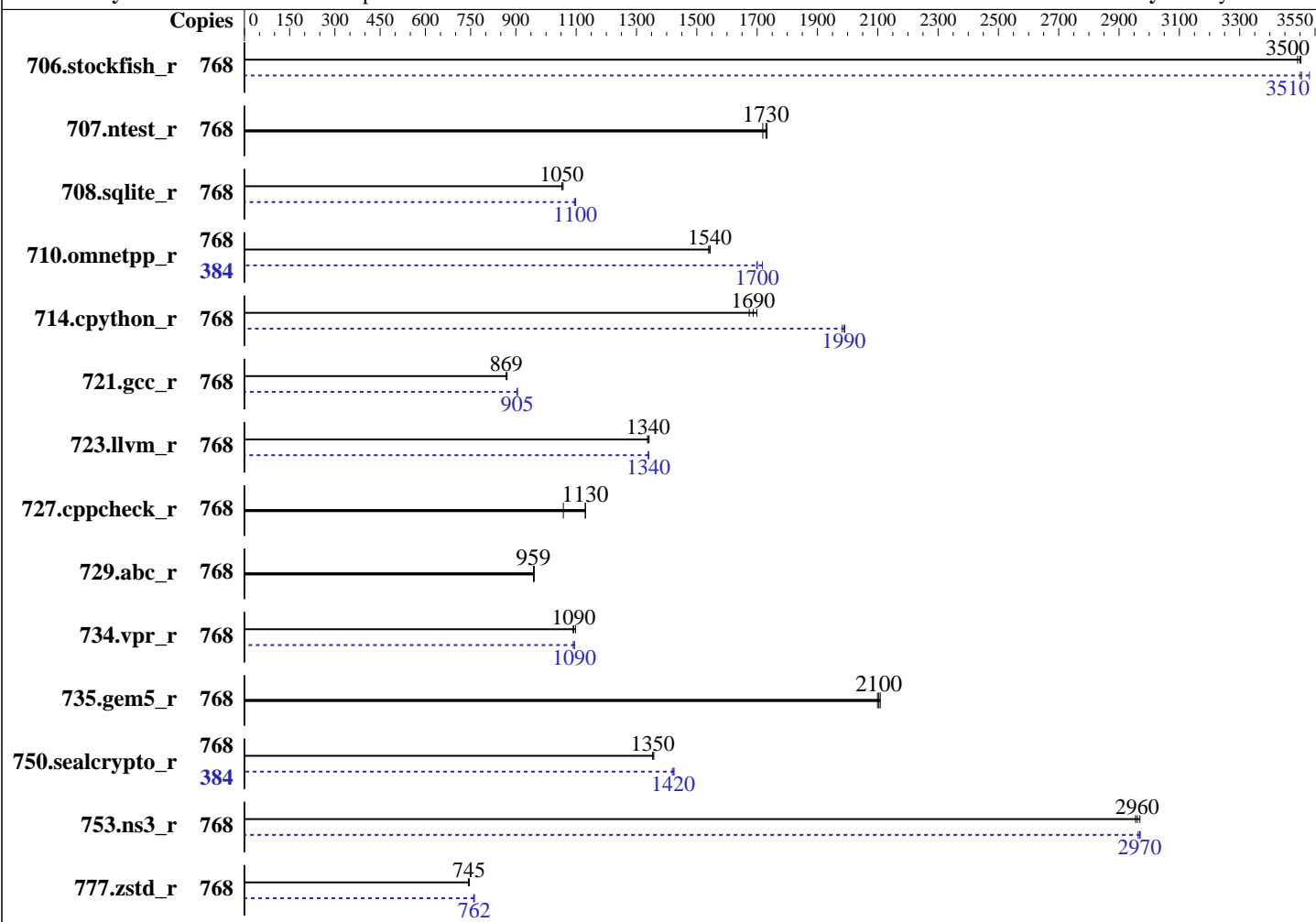
Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-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 2Rx4 PC5-6400B-R)
 Storage: 1 x 3.2 TB PCIe NVMe SSD
 Cooling: Air
 Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP6 (x86_64)
 Kernel 6.4.0-150600.21-default
 Compiler: C/C++/Fortran: Version 5.2.0 of AOCC
 Compiler Category: Vendor
 Firmware: Version 1002 released Oct-2025
 File System: xfs
 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.



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	768	277	3490	276	3500	276	3500	768	276	3500	274	3530	276	3510
707.ntest_r	768	262	1730	265	1720	263	1730	768	262	1730	265	1720	263	1730
708.sqlite_r	768	384	1060	385	1050	385	1050	768	370	1090	369	1100	370	1100
710.omnetpp_r	768	242	1540	242	1540	242	1540	384	110	1700	110	1700	109	1720
714.cpython_r	768	216	1700	218	1690	220	1670	768	185	1990	185	1990	186	1980
721.gcc_r	768	605	871	606	869	606	869	768	583	904	582	905	582	905
723.llvm_r	768	290	1340	291	1340	291	1340	768	290	1340	291	1340	291	1340
727.cppcheck_r	768	244	1130	261	1060	244	1130	768	244	1130	261	1060	244	1130
729.abc_r	768	367	961	368	959	368	959	768	367	961	368	959	368	959
734.vpr_r	768	324	1090	325	1090	323	1100	768	323	1090	323	1090	325	1090
735.gem5_r	768	177	2110	178	2100	178	2100	768	177	2110	178	2100	178	2100
750.sealcrypto_r	768	303	1360	304	1350	304	1350	384	145	1420	145	1420	144	1420
753.ns3_r	768	159	2970	159	2960	159	2950	768	159	2960	159	2970	158	2970
777.zstd_r	768	664	745	666	743	664	745	768	651	760	649	762	649	762

SPECrate®2026_int_base = **1430**

SPECrate®2026_int_peak = **1470**

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
OS set to performance mode via cpupower frequency-set -g performance

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.

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Operating System Notes (Continued)

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.
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 =  
    "/aocc520/amd_rate_aocc520_znver5_A_lib/lib:/aocc520/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 Configuration:
SR-IOV Support = Disabled
SVM Mode = Disabled
NUMA nodes per socket = NPS4
Determinism Control = Manual
DRAM Scrub time = Disabled
Engine Boost = Aggressive
TDP Control = Manual
TDP = 500
PPT Control = Manual
PPT = 500
L1 Stream HW Prefetcher = Disabled
L2 Stream HW Prefetcher = Disabled
BMC Configuration:
Fan mode = Full speed mode

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

Sysinfo program /aocc520/bin/sysinfo
Rev: 779ab21020787073335a329f3a45e2cd
running on localhost Fri May 29 14:24:23 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 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. tuned-adm active
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 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86_64

2. w
14:24:23 up 1 min, 1 user, load average: 2.12, 1.36, 0.55
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 14:23 39.00s 1.56s 0.00s /bin/bash ./rate.sh

3. Username

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

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) 6187563
   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) 6187563
   virtual memory         (kbytes, -v) unlimited
   file locks              (-x) unlimited

```

```

5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize=42
   login -- root
   -bash
   /bin/bash ./rate.sh
   python3 ./run_amd_rate_aocc520_znver5_A1.py
   runcpu --config amd_rate_aocc520_znver5_A1.cfg --tune all --reportable --iterations 3 intrate
   runcpu --configfile amd_rate_aocc520_znver5_A1.cfg --tune all --reportable --iterations 3 --nopower
   --runmode rate --tune base:peak --size test:train:refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2026.002/templogs/preenv.intrate.002.0.log --lognum 002.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /aocc520

```

```

6. /proc/cpuinfo
   model name      : AMD EPYC 9965 192-Core Processor
   vendor_id       : AuthenticAMD
   cpu family      : 26
   model           : 17
   stepping        : 0
   microcode       : 0xb10104e
   bugs             : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
   TLB size        : 192 4K pages
   cpu cores       : 192
   siblings        : 384

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

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 2.39.3:

```

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):                       768
On-line CPU(s) list:         0-767
Vendor ID:                    AuthenticAMD
BIOS Vendor ID:              Advanced Micro Devices, Inc.
Model name:                   AMD EPYC 9965 192-Core Processor
BIOS Model name:              AMD EPYC 9965 192-Core Processor          Unknown CPU @ 2.2GHz
BIOS CPU family:              107
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:          61%
CPU max MHz:                  3700.1951
CPU min MHz:                  1500.0000
BogoMIPS:                     4492.96

```

```

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 aperfmpperf 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
                               oswb ibs skinit wdt tce topoext perfctr_core perfctr_nb bpxt
                               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

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

```

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 vnm
avx512vbmi umip pku ospke avx512_vbmi2 gfni vaes vpclmulqdq
avx512_vnni avx512_bitalg avx512_vpoperndq la57 rdpid bus_lock_detect
movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect
flush_llc debug_swap

```

```

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: Not affected
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; 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	18M	12	Data	1	64	1	64
L1i	32K	12M	8	Instruction	1	64	1	64
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.

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

```

available: 8 nodes (0-7)
node 0 cpus: 0-47,384-431
node 0 size: 192625 MB
node 0 free: 191976 MB
node 1 cpus: 48-95,432-479
node 1 size: 193510 MB
node 1 free: 193013 MB
node 2 cpus: 96-143,480-527
node 2 size: 193510 MB
node 2 free: 192954 MB
node 3 cpus: 144-191,528-575
node 3 size: 193510 MB
node 3 free: 192944 MB
node 4 cpus: 192-239,576-623
node 4 size: 193510 MB
node 4 free: 193190 MB
node 5 cpus: 240-287,624-671
node 5 size: 193472 MB
node 5 free: 193154 MB
node 6 cpus: 288-335,672-719
node 6 size: 193510 MB
node 6 free: 193181 MB
node 7 cpus: 336-383,720-767
node 7 size: 193263 MB
node 7 free: 192923 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:      1584042956 kB

```

```

10. who -r
    run-level 3 May 29 14:23

```

```

11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
    Default Target  Status

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Platform Notes (Continued)

```

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+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 SP6

```

```

-----
20. Disk information
SPEC is set to: /aocc520
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p4 xfs 2.8T 273G 2.6T 10% /

```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Tested by: ASUSTeK Computer Inc.

Test Date: May-2026
Hardware Availability: Mar-2025
Software Availability: May-2026

Platform Notes (Continued)

21. /sys/devices/virtual/dmi/id
Vendor: ASUSTeK COMPUTER INC.
Product: RS720A-E13-RS8U
Product Family: Server
Serial: 123456789012

22. 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:
23x Samsung M321R8GA0EB2-CCPPC 64 GB 2 rank 6400
1x Samsung M321R8GA0EB2-CCPWC 64 GB 2 rank 6400

23. BIOS
(This section combines info from /sys/devices and dmidecode.)
BIOS Vendor: American Megatrends Inc.
BIOS Version: 1002
BIOS Date: 10/14/2025
BIOS Revision: 10.2

Compiler Version Notes

=====
C | 708.sqlite_r(base, peak) 714.cpython_r(base, peak) 777.zstd_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++ | 706.stockfish_r(base, peak) 707.ntest_r(base, peak)
727.cppcheck_r(base, peak) 753.ns3_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

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Compiler Version Notes (Continued)

```

=====
C++, C | 710.omnetpp_r(base, peak) 721.gcc_r(base, peak) 723.llvm_r(base,
      | peak) 729.abc_r(base, peak) 734.vpr_r(base, peak) 735.gem5_r(base,
      | peak) 750.sealcrypto_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++

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

```



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Peak Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

Peak Optimization Flags

C benchmarks:

```
708.sqlite_r: -std=c18 -no-pie -Wl,-mllvm -Wl,-inline-threshold=1500
-fstrip-mining -fprofile-instr-generate(pass 1)
-fprofile-instr-use(pass 2) -O3 -march=znver5
-fveclib=AMDLIBM -flto -fno-PIE -fno-plt -fremap-arrays
-mllvm -inline-threshold=1500 -ljemalloc -lamdlibm
```

714.cpython_r: Same as 708.sqlite_r

```
777.zstd_r: -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
-mllvm -inline-threshold=3000 -ljemalloc -lamdlibm
```

C++ benchmarks:

```
706.stockfish_r: -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
```

707.ntest_r: basepeak = yes

727.cppcheck_r: basepeak = yes

753.ns3_r: Same as 706.stockfish_r

Benchmarks using both C and C++:

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.

ASUS RS720A-E13-RS8U
(2.25 GHz, AMD EPYC 9965)

SPECrate®2026_int_base = 1430

SPECrate®2026_int_peak = 1470

CPU2026 License: 9016

Test Sponsor: ASUSTeK Computer Inc.

Tested by: ASUSTeK Computer Inc.

Test Date: May-2026

Hardware Availability: Mar-2025

Software Availability: May-2026

Peak Optimization Flags (Continued)

```
710.omnetpp_r: -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
```

```
721.gcc_r: -std=c++17 -std=c18 -no-pie
-Wl,-mllvm -Wl,-inline-threshold=1500
-fprofile-instr-generate(pass 1)
-fprofile-instr-use(pass 2) -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
```

723.llvm_r: Same as 710.omnetpp_r

729.abc_r: basepeak = yes

734.vpr_r: Same as 710.omnetpp_r

735.gem5_r: basepeak = yes

750.sealcrypto_r: Same as 710.omnetpp_r

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-06-16.html>

<http://www.spec.org/cpu2026/results/flags/ASUSTekPlatform-Settings-AMD-K15-V1.1.html>

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-06-16.xml>

<http://www.spec.org/cpu2026/results/flags/ASUSTekPlatform-Settings-AMD-K15-V1.1.xml>

SPEC CPU and SPECrate are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU®2026 v1.0.1 on 2026-05-29 02:24:22-0400.

Report generated on 2026-06-16 17:19:18 by CPU2026 PDF formatter (unknown).

Originally published on 2026-06-16.