



# SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

## Supermicro

CloudDC A+ Server AS -1116CS-TN  
(H14SHM , AMD EPYC 9965)

SPECrate®2026\_int\_base = 603

SPECrate®2026\_int\_peak = 603

CPU2026 License: 001176

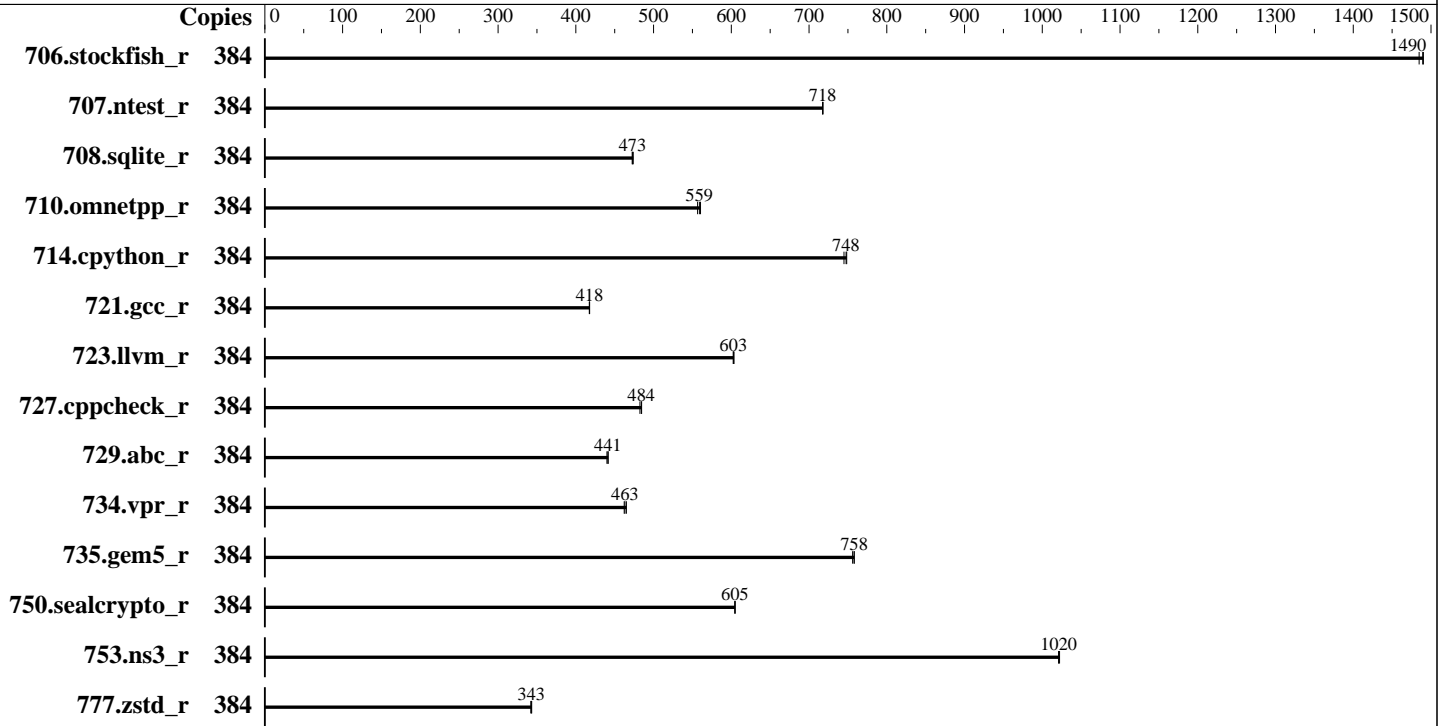
Test Sponsor: Supermicro

Tested by: Supermicro

Test Date: Jan-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9965  
 Max MHz: 3700  
 Nominal: 2250  
 Enabled: 192 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 Cache L1: 32 KB I + 48 KB D on chip per core  
 L2: 1 MB I+D on chip per core  
 L3: 384 MB I+D on chip per chip, 32 MB shared / 16 cores  
 Other: None  
 Memory: 768 GB (12 x 64 GB 2Rx4 PC5-6400B-R)  
 Storage: 1 x 480 GB NVMe SSD  
 Cooling: Air  
 Other: None

### Software

OS: Ubuntu 24.04.3 LTS  
 6.8.0-90-generic  
 Compiler: C/C++/Fortran: Version 5.1.0 of AOCC  
 Compiler Category: Vendor  
 Firmware: Version 1.5a released Aug-2025  
 File System: ext4  
 System State: Run level 5 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other: None  
 Power Management: BIOS and OS set to prefer performance at the cost of additional power usage.



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## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	384	<b>325</b>	<b>1490</b>	325	1490	326	1480	384	<b>325</b>	<b>1490</b>	325	1490	326	1480
707.ntest_r	384	317	717	<b>317</b>	<b>718</b>	317	718	384	317	717	<b>317</b>	<b>718</b>	317	718
708.sqlite_r	384	428	474	429	472	<b>429</b>	<b>473</b>	384	428	474	429	472	<b>429</b>	<b>473</b>
710.omnetpp_r	384	333	560	335	557	<b>334</b>	<b>559</b>	384	333	560	335	557	<b>334</b>	<b>559</b>
714.cpython_r	384	<b>246</b>	<b>748</b>	247	745	246	748	384	<b>246</b>	<b>748</b>	247	745	246	748
721.gcc_r	384	631	418	631	417	<b>631</b>	<b>418</b>	384	631	418	631	417	<b>631</b>	<b>418</b>
723.llvm_r	384	<b>323</b>	<b>603</b>	323	604	323	602	384	<b>323</b>	<b>603</b>	323	604	323	602
727.cppcheck_r	384	284	485	<b>285</b>	<b>484</b>	286	482	384	284	485	<b>285</b>	<b>484</b>	286	482
729.abc_r	384	401	440	<b>399</b>	<b>441</b>	399	442	384	401	440	<b>399</b>	<b>441</b>	399	442
734.vpr_r	384	381	465	383	462	<b>382</b>	<b>463</b>	384	381	465	383	462	<b>382</b>	<b>463</b>
735.gem5_r	384	<b>247</b>	<b>758</b>	247	756	247	758	384	<b>247</b>	<b>758</b>	247	756	247	758
750.sealcrypto_r	384	<b>340</b>	<b>605</b>	340	605	340	605	384	<b>340</b>	<b>605</b>	340	605	340	605
753.ns3_r	384	231	1020	<b>231</b>	<b>1020</b>	230	1020	384	231	1020	<b>231</b>	<b>1020</b>	230	1020
777.zstd_r	384	<b>722</b>	<b>343</b>	723	342	720	343	384	<b>722</b>	<b>343</b>	723	342	720	343

SPECrate®2026\_int\_base = **603**

SPECrate®2026\_int\_peak = **603**

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 =  
"/spec/speccpu2026rc2bsub/amd\_rate\_aocc510\_znver5\_A\_lib/lib:/spec/speccp  
u2026rc2bsub/amd\_rate\_aocc510\_znver5\_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

### Platform Notes

BIOS settings:  
SEV Control = Disabled  
SMEE = Disabled  
Memory Target Speed = DDR6400  
Determinism Control = Manual  
Determinism Enable = Power  
TDP control = Manual  
TDP = 500  
Package Power Limit Control = Manual  
Package Power Limit = 500  
TSME = Disabled  
NUMA nodes per socket = NPS4  
  
Sysinfo program /spec/speccpu2026rc2bsub/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on smc2347turin-os Sat Jan 31 00:03:12 2026  
  
SUT (System Under Test) info as seen by some common utilities.

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### Platform Notes (Continued)

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- 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 255 (255.4-lubuntu8.10)
- 12. Services, from systemctl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline
- 14. cpupower frequency-info
- 15. sysctl
- 16. /sys/kernel/mm/transparent\_hugepage
- 17. /sys/kernel/mm/transparent\_hugepage/khugepaged
- 18. OS release
- 19. Disk information
- 20. /sys/devices/virtual/dmi/id
- 21. dmidecode
- 22. BIOS

```
1. uname -srvm
Linux 6.8.0-90-generic #91-Ubuntu SMP PREEMPT_DYNAMIC Tue Nov 18 14:14:30 UTC 2025 x86_64
```

```
2. w
00:03:12 up 4:45, 2 users, load average: 0.08, 0.13, 0.58
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
amd       -        172.31.137.186 21:14      29:20      0.00s     0.01s    sshd: amd [priv]
amd       tty1     -             19:55      4:08m     0.08s     0.01s    -bash
```

```
3. Username
From environment variable $USER: root
From the command 'logname':    amd
```

```
4. ulimit -a
time(seconds)      unlimited
file(blocks)       unlimited
data(kbytes)       unlimited
```

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### Platform Notes (Continued)

stack(kbytes)	unlimited
coredump(blocks)	0
memory(kbytes)	unlimited
locked memory(kbytes)	2097152
process	3093218
nofiles	1024
vmemory(kbytes)	unlimited
locks	unlimited
rtprio	0

-----  
5. sysinfo process ancestry

```

/sbin/init
SCREEN -S cpu
/bin/bash
python3 ./run_amd_rate_aocc510_znver5_A1.py
/bin/bash ./amd_rate_aocc510_znver5_A1.sh
runcpu --config amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 3 intrate
runcpu --configfile amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 3 --nopower
--runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.002/templots/preenv.intrate.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /spec/speccpu2026rc2bsub

```

-----  
6. /proc/cpuinfo

```

model name      : AMD EPYC 9965 192-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 26
model          : 17
stepping       : 0
microcode      : 0xb101047
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size      : 192 4K pages
cpu cores     : 192
siblings      : 384
1 physical ids (chips)
384 processors (hardware threads)
physical id 0: core ids 0-191
physical id 0: apicids 0-383

```

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:

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### Platform Notes (Continued)

```

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):                      384
On-line CPU(s) list:        0-383
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):                   1
Stepping:                    0
Frequency boost:             enabled
CPU(s) scaling MHz:         101%
CPU max MHz:                 2250.0000
CPU min MHz:                 1500.0000
BogoMIPS:                    4500.26
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
                             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
                             vnni 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 fsmr avx512_vp2intersect
                             flush_l1d debug_swap
L1d cache:                   9 MiB (192 instances)
L1i cache:                   6 MiB (192 instances)
L2 cache:                    192 MiB (192 instances)
L3 cache:                    384 MiB (12 instances)
NUMA node(s):                4

```

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### Platform Notes (Continued)

```

NUMA node0 CPU(s):          0-47,192-239
NUMA node1 CPU(s):          48-95,240-287
NUMA node2 CPU(s):          96-143,288-335
NUMA node3 CPU(s):          144-191,336-383
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
Vulnerability Vmscape:        Not affected

```

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	9M	12	Data	1	64	1	64
L1i	32K	6M	8	Instruction	1	64	1	64
L2	1M	192M	16	Unified	2	1024	1	64
L3	32M	384M	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: 0-47,192-239
node 0 size: 192953 MB
node 0 free: 190424 MB
node 1 cpus: 48-95,240-287
node 1 size: 193503 MB
node 1 free: 190545 MB
node 2 cpus: 96-143,288-335
node 2 size: 193503 MB
node 2 free: 191155 MB
node 3 cpus: 144-191,336-383
node 3 size: 193422 MB
node 3 free: 191259 MB
node distances:
node  0  1  2  3
0:  10 12 12 12

```

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### Platform Notes (Continued)

```
1: 12 10 12 12
2: 12 12 10 12
3: 12 12 12 10
```

-----  
9. /proc/meminfo  
MemTotal: 791943520 kB

-----  
10. who -r  
run-level 5 Jan 30 19:18

-----  
11. Systemd service manager version: systemd 255 (255.4-lubuntu8.10)  
Default Target Status  
graphical running

-----  
12. Services, from systemctl list-unit-files  
STATE UNIT FILES  
enabled ModemManager apparmor apport blk-availability cloud-config cloud-final cloud-init cloud-init-local console-setup cron dmesg e2scrub\_reap finalrd getty@ gpu-manager grub-common grub-initrd-fallback keyboard-setup lvm2-monitor multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb snapd sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades vgauth  
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs  
disabled console-getty debug-shell ipmievd iscsid nftables rsync serial-getty@ ssh systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-networkd-wait-online@ systemd-pcrlock-file-system systemd-pcrlock-firmware-code systemd-pcrlock-firmware-config systemd-pcrlock-machine-id systemd-pcrlock-make-policy systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext systemd-time-wait-sync upower  
generated openipmi  
indirect systemd-sysupdate systemd-sysupdate-reboot uidd  
masked cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common

-----  
13. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT\_IMAGE=/vmlinuz-6.8.0-90-generic  
root=/dev/mapper/ubuntu--vg-ubuntu--lv  
ro

-----  
14. cpupower frequency-info  
analyzing CPU 126:

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### Platform Notes (Continued)

current policy: frequency should be within 1.50 GHz and 2.25 GHz.  
The governor "performance" may decide which speed to use within this range.

boost state support:  
Supported: yes  
Active: yes  
Boost States: 0  
Total States: 3  
Pstate-P0: 2250MHz

-----  
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
```

-----  
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
```

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### Platform Notes (Continued)

scan\_sleep\_millisecs 10000

-----  
18. OS release

From /etc/\*-release /etc/\*-version  
os-release Ubuntu 24.04.3 LTS

-----  
19. Disk information

SPEC is set to: /spec/speccpu2026rc2bsub

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/ubuntu--vg-ubuntu--lv	ext4	437G	25G	393G	6%	/

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

Vendor: Supermicro  
Product: AS -1116CS-TN  
Product Family: SMC H14  
Serial: S931316X4B12347

-----  
21. dmidecode

Additional information from dmidecode 3.5 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:  
12x SK Hynix HMC94AHBRA277N 64 GB 2 rank 6400

-----  
22. BIOS

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

BIOS Vendor: American Megatrends International, LLC.  
BIOS Version: 1.5a  
BIOS Date: 08/11/2025  
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\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix

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(H14SHM , AMD EPYC 9965)

SPECrate®2026\_int\_base = 603

SPECrate®2026\_int\_peak = 603

**CPU2026 License:** 001176  
**Test Sponsor:** Supermicro  
**Tested by:** Supermicro

**Test Date:** Jan-2026  
**Hardware Availability:** Oct-2024  
**Software Availability:** Jan-2026

### Compiler Version Notes (Continued)

InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/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\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin

=====  
C++, C | 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\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin

### Base Compiler Invocation

C benchmarks:  
clang

C++ benchmarks:  
clang++

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

### Base Portability Flags

706.stockfish\_r: -DSPEC\_LP64  
707.ntest\_r: -DSPEC\_LP64  
708.sqlite\_r: -DSPEC\_LP64  
710.omnetpp\_r: -DSPEC\_LP64  
714.cpython\_r: -DSPEC\_LP64  
721.gcc\_r: -DSPEC\_LP64  
723.llvm\_r: -DSPEC\_LP64

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# SPEC CPU®2026 Integer Rate Result

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## Base Portability Flags (Continued)

727.cppcheck\_r: -DSPEC\_LP64  
729.abc\_r: -DSPEC\_LP64  
734.vpr\_r: -DSPEC\_LP64  
735.gem5\_r: -DSPEC\_LP64  
750.sealcrypto\_r: -DSPEC\_LP64  
753.ns3\_r: -DSPEC\_LP64  
777.zstd\_r: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-ldist-scalar-expand -fenable-aggressive-gather  
-Wl,-mllvm -Wl,-extra-inliner -O3 -march=znver5 -fveclib=AMDLIBM  
-fno-PIE -no-pie -flto -fstruct-layout=7 -mllvm -unroll-threshold=50  
-mllvm -inline-threshold=1000 -fremap-arrays -fstrip-mining  
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lflang  
-lamdalloc
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5  
-fveclib=AMDLIBM -flto -mllvm -unroll-threshold=100  
-mllvm -loop-unswitch-threshold=200000  
-mllvm -reduce-array-computations=3 -zopt -fno-PIE -no-pie  
-fvirtual-function-elimination -fvisibility=hidden -lamdlibm -lflang  
-lamdalloc
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5  
-fveclib=AMDLIBM -fno-PIE -no-pie -flto -fstruct-layout=7  
-mllvm -unroll-threshold=50 -mllvm -inline-threshold=1000  
-fremap-arrays -fstrip-mining -mllvm -reduce-array-computations=3  
-zopt -mllvm -unroll-threshold=100  
-mllvm -loop-unswitch-threshold=200000 -fvirtual-function-elimination  
-fvisibility=hidden -lamdlibm -lflang -lamdalloc
```



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## 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/aocc-flags.2026-05-04.html>

<http://www.spec.org/cpu2026/results/flags/Supermicro-Platform-Settings-V1.2-Turin-revG.html>

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.xml>

<http://www.spec.org/cpu2026/results/flags/Supermicro-Platform-Settings-V1.2-Turin-revG.xml>



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Tested with SPEC CPU<sup>®</sup>2026 v0.902.0 on 2026-01-30 19:03:11-0500.  
Report generated on 2026-05-11 16:38:37 by CPU2026 PDF formatter (unknown).  
Originally published on 2026-05-05.