



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

## Supermicro

Hyper A+ Server AS -2126HS-TN  
(H14DSH , AMD EPYC 9655)

SPECspeed®2026\_int\_base = 8.14

SPECspeed®2026\_int\_peak = 8.14

CPU2026 License: 001176

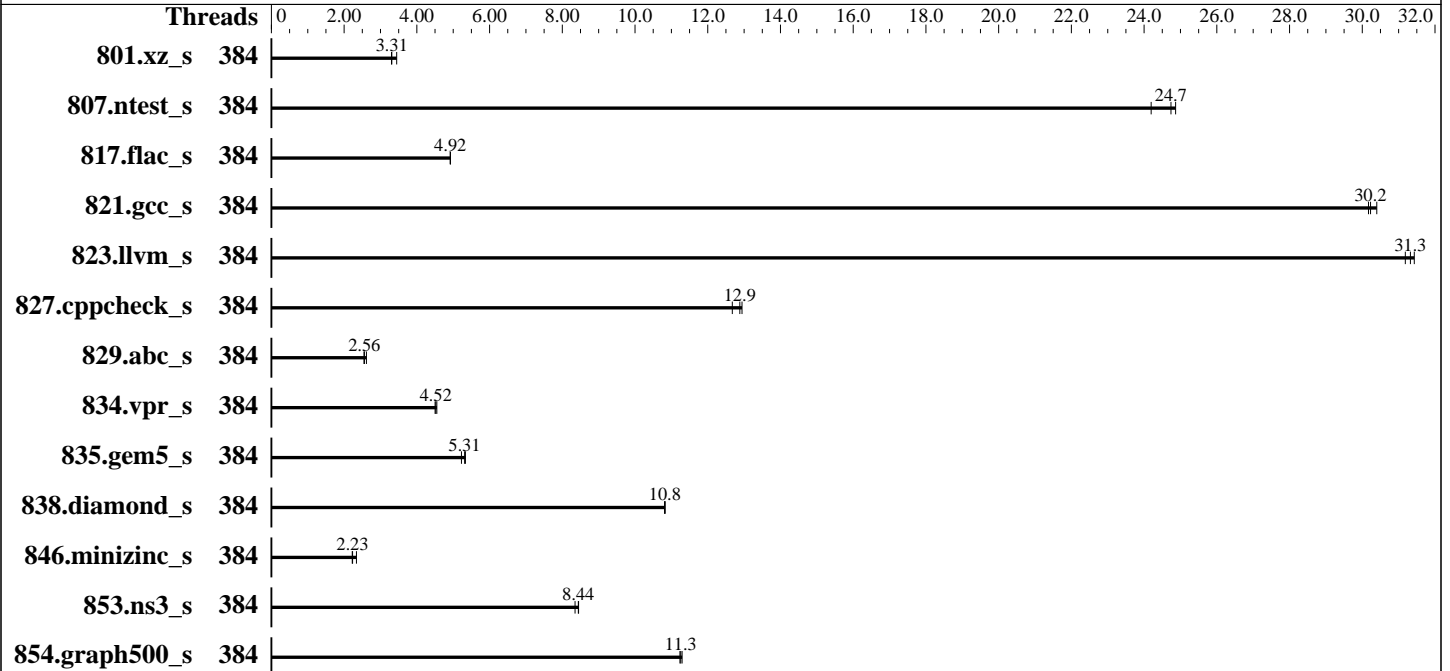
Test Sponsor: Supermicro

Tested by: Supermicro

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9655  
 Max MHz: 4500  
 Nominal: 2600  
 Enabled: 192 cores, 2 chips, 2 threads/core  
 Orderable: 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 / 8 cores  
 Other: None  
 Memory: 1536 GB (24 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  
 6.8.0-94-generic  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Version 1.5 released May-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						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
801.xz_s	384	172	3.45	179	3.30	<b>179</b>	<b>3.31</b>	384	172	3.45	179	3.30	<b>179</b>	<b>3.31</b>
807.ntest_s	384	47.1	24.2	<b>46.1</b>	<b>24.7</b>	45.8	24.9	384	47.1	24.2	<b>46.1</b>	<b>24.7</b>	45.8	24.9
817.flac_s	384	353	4.92	353	4.92	<b>353</b>	<b>4.92</b>	384	353	4.92	353	4.92	<b>353</b>	<b>4.92</b>
821.gcc_s	384	68.6	30.2	<b>68.5</b>	<b>30.2</b>	68.1	30.4	384	68.6	30.2	<b>68.5</b>	<b>30.2</b>	68.1	30.4
823.llvm_s	384	44.9	31.4	45.2	31.2	<b>45.0</b>	<b>31.3</b>	384	44.9	31.4	45.2	31.2	<b>45.0</b>	<b>31.3</b>
827.cppcheck_s	384	<b>86.9</b>	<b>12.9</b>	86.5	12.9	88.3	12.7	384	<b>86.9</b>	<b>12.9</b>	86.5	12.9	88.3	12.7
829.abc_s	384	<b>325</b>	<b>2.56</b>	326	2.55	318	2.61	384	<b>325</b>	<b>2.56</b>	326	2.55	318	2.61
834.vpr_s	384	212	4.50	<b>211</b>	<b>4.52</b>	210	4.55	384	212	4.50	<b>211</b>	<b>4.52</b>	210	4.55
835.gem5_s	384	<b>214</b>	<b>5.31</b>	218	5.23	213	5.34	384	<b>214</b>	<b>5.31</b>	218	5.23	213	5.34
838.diamond_s	384	<b>92.5</b>	<b>10.8</b>	92.5	10.8	92.6	10.8	384	<b>92.5</b>	<b>10.8</b>	92.5	10.8	92.6	10.8
846.minizinc_s	384	301	2.22	286	2.34	<b>300</b>	<b>2.23</b>	384	301	2.22	286	2.34	<b>300</b>	<b>2.23</b>
853.ns3_s	384	<b>137</b>	<b>8.44</b>	136	8.45	138	8.35	384	<b>137</b>	<b>8.44</b>	136	8.45	138	8.35
854.graph500_s	384	<b>54.3</b>	<b>11.3</b>	54.1	11.3	54.4	11.2	384	<b>54.3</b>	<b>11.3</b>	54.1	11.3	54.4	11.2

SPECspeed®2026\_int\_base = **8.14**

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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Compiler Notes

The AMD64 AOCC Compiler Suite is available at  
<http://developer.amd.com/amd-aocc/>  
Flang v22 is available at  
<https://flang.llvm.org/>

## Submit Notes

The config file option 'submit' was used.  
'numactl' was used to bind copies to the cores.  
See the configuration file for details.

## Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit  
'ulimit -l 2097152' was used to set environment locked pages in memory limit

runcpu command invoked through numactl i.e.:  
numactl --interleave=all runcpu <etc>

To limit dirty cache to 8% of memory, 'sysctl -w vm.dirty\_ratio=8' run as root.  
To limit swap usage to minimum necessary, 'sysctl -w vm.swappiness=1' run as root.  
To free node-local memory and avoid remote memory usage,

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### Operating System Notes (Continued)

```
'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:  
GOMP_CPU_AFFINITY = "0-383"  
LD_LIBRARY_PATH =  
    "/spec/speccpu2026speed/amd_speed_aocc510_flang22_znver5_A_lib/lib:/spec  
    /speccpu2026speed/amd_speed_aocc510_flang22_znver5_A_lib/lib32:"  
MALLOC_CONF = "retain:true"
```

### General Notes

Binaries were compiled on a system with an AMD EPYC 9754 CPU + 768 GiB 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 = 400  
Package Power Limit Control = Manual  
Package Power Limit = 400  
TSME = Disabled  
  
Sysinfo program /spec/speccpu2026speed/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on smc4706turin-u24-os Thu Feb 5 15:30:14 2026  
  
SUT (System Under Test) info as seen by some common utilities.  
  
-----  
Table of contents
```

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### Platform Notes (Continued)

- 
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 6.8.0-94-generic #96-Ubuntu SMP PREEMPT_DYNAMIC Fri Jan 9 20:36:55 UTC 2026 x86_64
```

---



---

```
2. w
15:30:14 up 1:10, 2 users, load average: 0.07, 0.02, 0.00
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
root      pts/0    10.252.48.220 14:31      1:10m      0.00s     0.06s    sshd: root@notty
root      pts/0    10.252.48.220 14:31      1:10m      0.00s     0.17s    sshd: root@pts/1
```

---



---

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

---



---

```
4. ulimit -a
time(seconds)      unlimited
file(blocks)       unlimited
data(kbytes)       unlimited
stack(kbytes)      unlimited
coredump(blocks)   0
```

---

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### Platform Notes (Continued)

```
memory(kbytes)          unlimited
locked memory(kbytes) 2097152
process                 6189791
nofiles                 1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                  0
```

-----  
5. sysinfo process ancestry

```
/sbin/init
SCREEN -S cpu
/bin/bash
python3 ./run_amd_speed_aocc510_flang22_znver5_A1.py
/bin/bash ./amd_speed_aocc510_flang22_znver5_A1.sh
runcpu --config amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3 intspeerd
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--nopower --runmode speed --tune base --size test:train:refspeed intspeerd --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.001/templogs/preenv.intspeerd.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /spec/speccpu2026speed
```

-----  
6. /proc/cpuinfo

```
model name      : AMD EPYC 9655 96-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 26
model          : 2
stepping       : 1
microcode      : 0xb002147
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size       : 192 4K pages
cpu cores      : 96
siblings       : 192
2 physical ids (chips)
384 processors (hardware threads)
physical id 0: core ids 0-95
physical id 1: core ids 0-95
physical id 0: apicids 0-191
physical id 1: apicids 256-447
```

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 9655 96-Core Processor
BIOS Model name:            AMD EPYC 9655 96-Core Processor          Unknown CPU @ 2.6GHz
BIOS CPU family:            107
CPU family:                  26
Model:                       2
Thread(s) per core:         2
Core(s) per socket:         96
Socket(s):                   2
Stepping:                    1
Frequency boost:             enabled
CPU(s) scaling MHz:         100%
CPU max MHz:                 2600.0000
CPU min MHz:                 1500.0000
BogoMIPS:                    5200.15
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 xsavec 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:                     768 MiB (24 instances)
NUMA node(s):                2

```

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### Platform Notes (Continued)

NUMA node0 CPU(s): 0-95,192-287  
 NUMA node1 CPU(s): 96-191,288-383  
 Vulnerability Gather data sampling: Not affected  
 Vulnerability Itlb multihit: Not affected  
 Vulnerability Lltf: Not affected  
 Vulnerability Mds: Not affected  
 Vulnerability Meltdown: Not affected  
 Vulnerability Mmio stale data: Not affected  
 Vulnerability Reg file data sampling: Not affected  
 Vulnerability Retbleed: Not affected  
 Vulnerability Spec rstack overflow: Not affected  
 Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl  
 Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization  
 Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP  
 always-on; RSB filling; PBR SB-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	768M	16	Unified	3	32768	1	64

8. numactl --hardware

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

```
available: 2 nodes (0-1)
node 0 cpus: 0-95,192-287
node 0 size: 773571 MB
node 0 free: 770863 MB
node 1 cpus: 96-191,288-383
node 1 size: 773954 MB
node 1 free: 770684 MB
node distances:
node  0  1
  0:  10  32
  1:  32  10
```

9. /proc/meminfo

MemTotal: 1584666240 kB

10. who -r

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### Platform Notes (Continued)

run-level 5 Feb 5 14:20

-----  
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 nvme-fc-boot-connections nvme-autoconnect 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=/boot/vmlinuz-6.8.0-94-generic  
root=UUID=03383914-c98d-47f6-9c7e-25b8eb120794  
ro

-----  
14. cpupower frequency-info

analyzing CPU 64:  
current policy: frequency should be within 1.50 GHz and 2.60 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: 2600MHz

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### Platform Notes (Continued)

-----  
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
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/speccpu2026speed

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### Platform Notes (Continued)

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme2nlp2	ext4	457G	39G	395G	9%	/

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:          Supermicro
Product:         AS -2126HS-TN
Product Family:  SMC H14
Serial:          S920464X4524706
-----

```

#### 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:  
24x Samsung M321R8GA0PB1-CCPWC 64 GB 2 rank 6400

#### 22. BIOS

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

```

BIOS Vendor:      American Megatrends International, LLC.
BIOS Version:     1.5
BIOS Date:        05/12/2025
BIOS Revision:    5.35

```

### Compiler Version Notes

=====  
C | 854.graph500\_s(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++ | 807.ntest\_s(base) 827.cppcheck\_s(base) 853.ns3\_s(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

```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

## Supermicro

Hyper A+ Server AS -2126HS-TN  
(H14DSH , AMD EPYC 9655)

SPECspeed®2026\_int\_base = 8.14

SPECspeed®2026\_int\_peak = 8.14

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

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

## Compiler Version Notes (Continued)

```

=====
C++, C | 801.xz_s(base) 817.flac_s(base) 821.gcc_s(base) 823.llvm_s(base)
      | 829.abc_s(base) 834.vpr_s(base) 835.gem5_s(base) 838.diamond_s(base)
      | 846.minizinc_s(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

```

801.xz_s: -DSPEC_LP64
807.ntest_s: -DSPEC_LP64
817.flac_s: -DSPEC_LP64
821.gcc_s: -DSPEC_LP64
823.llvm_s: -DSPEC_LP64
827.cppcheck_s: -DSPEC_LP64
829.abc_s: -DSPEC_LP64
834.vpr_s: -fno-finite-math-only -DSPEC_LP64
835.gem5_s: -fno-finite-math-only -DSPEC_LP64
838.diamond_s: -DSPEC_LP64
846.minizinc_s: -DSPEC_LP64
853.ns3_s: -fno-finite-math-only -DSPEC_LP64
854.graph500_s: -DSPEC_LP64

```



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## Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-allow-multiple-definition -Wl,-mllvm -Wl,-extra-inliner -O3 -flto
-march=znver5 -fveclib=AMDLIBM -ffast-math -zopt -fremap-arrays
-fstrip-mining -fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50
-fopenmp -DSPEC_OPENMP -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -zopt -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -fopenmp -DSPEC_OPENMP
-fvirtual-function-elimination -fvisibility=hidden -lamdalloc
-lamdlibm -fopenmp=libomp -lomp
```

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
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -zopt -fremap-arrays -fstrip-mining
-fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-fopenmp -DSPEC_OPENMP -fvirtual-function-elimination
-fvisibility=hidden -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

## Base Other Flags

C benchmarks:

```
-Wno-return-type
```

Benchmarks using both C and C++:

```
-Wno-return-type
```

## Peak Optimization Flags

C benchmarks:

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# SPEC CPU®2026 Integer Speed Result

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## Supermicro

Hyper A+ Server AS -2126HS-TN  
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SPECspeed®2026\_int\_base = 8.14

SPECspeed®2026\_int\_peak = 8.14

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

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

## Peak Optimization Flags (Continued)

854.graph500\_s: basepeak = yes

C++ benchmarks:

807.ntest\_s: basepeak = yes

827.cppcheck\_s: basepeak = yes

853.ns3\_s: basepeak = yes

Benchmarks using both C and C++:

801.xz\_s: basepeak = yes

817.flac\_s: basepeak = yes

821.gcc\_s: basepeak = yes

823.llvm\_s: basepeak = yes

829.abc\_s: basepeak = yes

834.vpr\_s: basepeak = yes

835.gem5\_s: basepeak = yes

838.diamond\_s: basepeak = yes

846.minizinc\_s: 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.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.xml>

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

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Tested with SPEC CPU®2026 v0.902.0 on 2026-02-05 10:30:13-0500.

Report generated on 2026-05-04 23:31:17 by CPU2026 PDF formatter (unknown).

Originally published on 2026-05-05.