



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

## Supermicro

WIO A+ Server AS -1015SV-WTNRT  
(H13SVW-NT , AMD EPYC 8534P)

SPECspeed®2026\_int\_base = 3.92

SPECspeed®2026\_int\_peak = 3.92

CPU2026 License: 001176

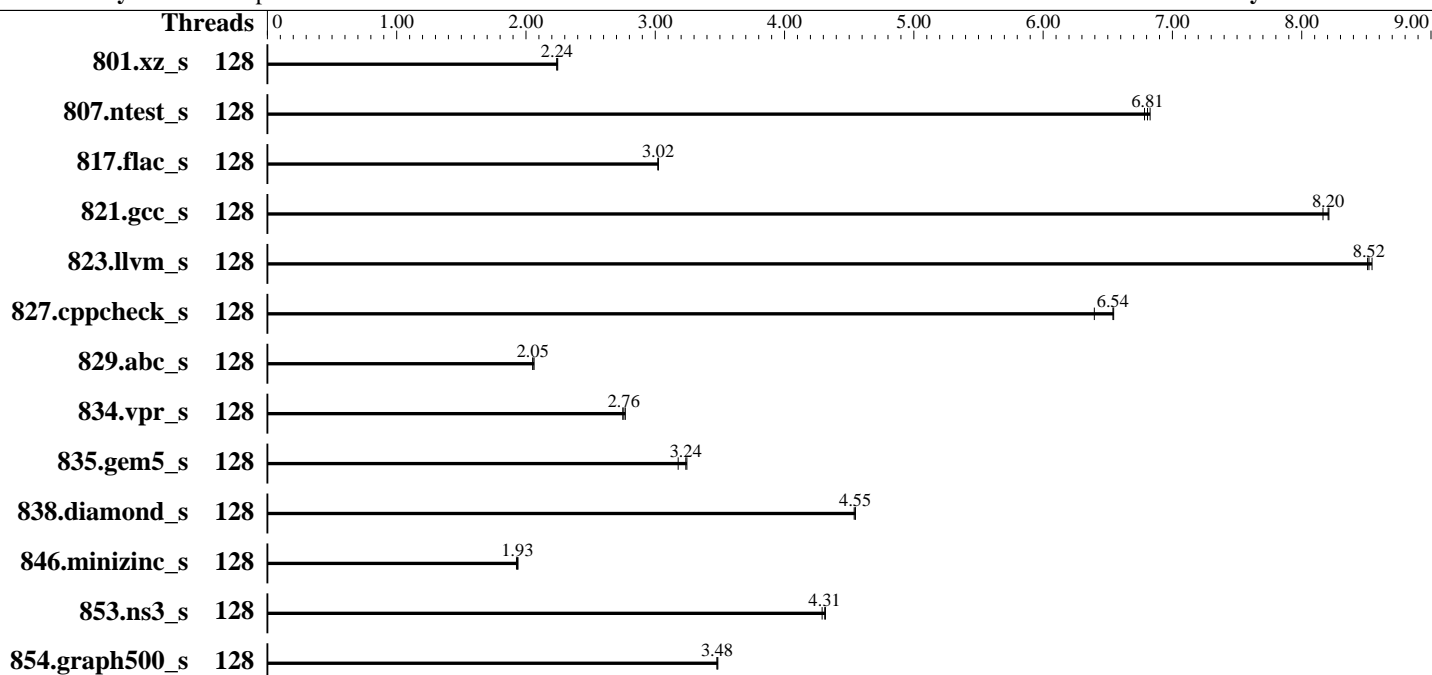
Test Sponsor: Supermicro

Tested by: Supermicro

Test Date: Feb-2026

Hardware Availability: Oct-2024

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 8534P  
 Max MHz: 3100  
 Nominal: 2300  
 Enabled: 64 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 Cache L1: 32 KB I + 32 KB D on chip per core  
 L2: 1 MB I+D on chip per core  
 L3: 128 MB I+D on chip per chip, 16 MB shared / 8 cores  
 Other: None  
 Memory: 384 GB (6 x 64 GB 2Rx4 PC5-4800B-R)  
 Storage: 1 x 980 GB NVMe SSD  
 Cooling: Air  
 Other: None

### Software

OS: Ubuntu 24.04 LTS  
 6.8.0-90-generic  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Version 1.5 released Nov-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	128	<b>264</b>	<b>2.24</b>	263	2.25	264	2.24	128	<b>264</b>	<b>2.24</b>	263	2.25	264	2.24
807.ntest_s	128	167	6.83	168	6.78	<b>167</b>	<b>6.81</b>	128	167	6.83	168	6.78	<b>167</b>	<b>6.81</b>
817.flac_s	128	575	3.02	<b>575</b>	<b>3.02</b>	575	3.02	128	575	3.02	<b>575</b>	<b>3.02</b>	575	3.02
821.gcc_s	128	<b>252</b>	<b>8.20</b>	254	8.16	252	8.21	128	<b>252</b>	<b>8.20</b>	254	8.16	252	8.21
823.llvm_s	128	165	8.54	<b>166</b>	<b>8.52</b>	166	8.51	128	165	8.54	<b>166</b>	<b>8.52</b>	166	8.51
827.cppcheck_s	128	<b>171</b>	<b>6.54</b>	171	6.55	175	6.40	128	<b>171</b>	<b>6.54</b>	171	6.55	175	6.40
829.abc_s	128	403	2.06	<b>405</b>	<b>2.05</b>	405	2.05	128	403	2.06	<b>405</b>	<b>2.05</b>	405	2.05
834.vpr_s	128	345	2.77	347	2.75	<b>346</b>	<b>2.76</b>	128	345	2.77	347	2.75	<b>346</b>	<b>2.76</b>
835.gem5_s	128	351	3.24	358	3.18	<b>352</b>	<b>3.24</b>	128	351	3.24	358	3.18	<b>352</b>	<b>3.24</b>
838.diamond_s	128	221	4.54	220	4.55	<b>220</b>	<b>4.55</b>	128	221	4.54	220	4.55	<b>220</b>	<b>4.55</b>
846.minizinc_s	128	<b>346</b>	<b>1.93</b>	346	1.94	348	1.93	128	<b>346</b>	<b>1.93</b>	346	1.94	348	1.93
853.ns3_s	128	267	4.32	<b>267</b>	<b>4.31</b>	269	4.29	128	267	4.32	<b>267</b>	<b>4.31</b>	269	4.29
854.graph500_s	128	176	3.48	175	3.48	<b>176</b>	<b>3.48</b>	128	176	3.48	175	3.48	<b>176</b>	<b>3.48</b>

SPECspeed®2026\_int\_base = **3.92**

SPECspeed®2026\_int\_peak = **3.92**

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,

(Continued on next page)



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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 = "0-127"  
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  
TSME = Disabled  
Determinism Control = Manual  
Determinism Enable = Power  
TDP control = Manual  
TDP = 225  
Package Power Limit Control = Manual  
Package Power Limit = 225  
  
Sysinfo program /spec/speccpu2026speed/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f  
running on smcsiena9028-os Thu Feb 5 15:42:21 2026
```

SUT (System Under Test) info as seen by some common utilities.

-----  
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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 (255.4-1ubuntu8.8)`
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
   15:42:21 up 1:37, 2 users, load average: 0.27, 0.11, 0.03
   USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
   root          10.252.48.220  14:24        1:37m      0.00s      0.09s     sshd: root@notty
   root          10.252.48.220  14:24        1:37m      0.00s      0.64s     sshd: root@pts/0
-----
```

```
-----
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
   memory(kbytes)     unlimited
-----
```

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### Platform Notes (Continued)

```
locked memory(kbytes) 2097152
process                1545583
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 --note-preenv --note-postenv
--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 8534P 64-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 25
model          : 160
stepping       : 2
microcode      : 0xaa0021c
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso vmscape
TLB size      : 3584 4K pages
cpu cores      : 64
siblings       : 128
1 physical ids (chips)
128 processors (hardware threads)
physical id 0: core ids 0-63
physical id 0: apicids 0-127
```

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
```

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### Platform Notes (Continued)

```

Byte Order:                Little Endian
CPU(s):                    128
On-line CPU(s) list:      0-127
Vendor ID:                 AuthenticAMD
BIOS Vendor ID:          Advanced Micro Devices, Inc.
Model name:               AMD EPYC 8534P 64-Core Processor
BIOS Model name:         AMD EPYC 8534P 64-Core Processor          Unknown CPU @ 2.3GHz
BIOS CPU family:         107
CPU family:               25
Model:                   160
Thread(s) per core:      2
Core(s) per socket:      64
Socket(s):               1
Stepping:                2
Frequency boost:         enabled
CPU(s) scaling MHz:      102%
CPU max MHz:             2300.0000
CPU min MHz:             1500.0000
BogoMIPS:                4599.99
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
                          oswb 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 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 avx512_bf16 clzero irperf xsaveerptr rdpru wbinvd
                          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 overflow_recov succor smca fsrm flush_lld
                          debug_swap ibpb_exit_to_user
L1d cache:                2 MiB (64 instances)
L1i cache:                2 MiB (64 instances)
L2 cache:                 64 MiB (64 instances)
L3 cache:                 128 MiB (8 instances)
NUMA node(s):            1
NUMA node0 CPU(s):      0-127
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit:  Not affected
Vulnerability L1tf:      Not affected

```

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### Platform Notes (Continued)

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; Safe RET
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; PBR SB-eIBRS Not affected; BHI Not affected
Vulnerability Srbds:	Not affected
Vulnerability Tsx async abort:	Not affected
Vulnerability Vmscape:	Mitigation; IBPB before exit to userspace

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	32K	2M	8	Data	1	64	1	64
L1i	32K	2M	8	Instruction	1	64	1	64
L2	1M	64M	8	Unified	2	2048	1	64
L3	16M	128M	16	Unified	3	16384	1	64

8. numactl --hardware

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

```

available: 1 nodes (0)
node 0 cpus: 0-127
node 0 size: 386473 MB
node 0 free: 382995 MB
node distances:
node    0
0:    10

```

9. /proc/meminfo

MemTotal: 395748980 kB

10. who -r

run-level 5 Feb 5 14:05

11. Systemd service manager version: systemd 255 (255.4-lubuntu8.8)

```

Default Target Status
graphical      running

```

12. Services, from systemctl list-unit-files

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### Platform Notes (Continued)

STATE	UNIT FILES
enabled	ModemManager apparmor appport 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 uuidd
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 55:
  current policy: frequency should be within 1.50 GHz and 2.30 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: 2300MHz
```

-----

15. sysctl

```
kernel.numa_balancing          0
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
```

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### Platform Notes (Continued)

```

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 LTS

```

```

-----
19. Disk information
SPEC is set to: /spec/speccpu2026speed
Filesystem                Type      Size   Used Avail Use% Mounted on
/dev/mapper/ubuntu--vg-ubuntu--lv ext4      914G   84G  792G  10% /

```

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:      Supermicro
Product:     Super Server
Product Family: SMC H13
Serial:      0123456789

```

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### Platform Notes (Continued)

#### 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:

1x Samsung M321R8GA0BB0-CQKDG 64 GB 2 rank 4800  
5x Samsung M321R8GA0BB0-CQKEG 64 GB 2 rank 4800

#### 22. BIOS

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

BIOS Vendor: American Megatrends International, LLC.  
BIOS Version: 1.5  
BIOS Date: 11/03/2025  
BIOS Revision: 5.30

### 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

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)

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# SPEC CPU®2026 Integer Speed Result

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## Supermicro

WIO A+ Server AS -1015SV-WTNRT  
(H13SVW-NT, AMD EPYC 8534P)

SPECspeed®2026\_int\_base = 3.92

SPECspeed®2026\_int\_peak = 3.92

**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)

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

## 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 -fltto  
-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

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## Base Optimization Flags (Continued)

C benchmarks (continued):

-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:

854.graph500\_s:basepeak = yes

C++ benchmarks:

807.ntest\_s:basepeak = yes

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# SPEC CPU®2026 Integer Speed Result

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## Supermicro

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SPECspeed®2026\_int\_base = 3.92

SPECspeed®2026\_int\_peak = 3.92

**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)

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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