



SPEC CPU®2026 Integer Speed Result

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Quanta Cloud Technology

(Test Sponsor: Quanta Computer Inc.)

QuantaGrid D44N-1U

AMD EPYC 9755

SPECspeed®2026_int_base = 8.40

SPECspeed®2026_int_peak = Not Run

CPU2026 License: 9050

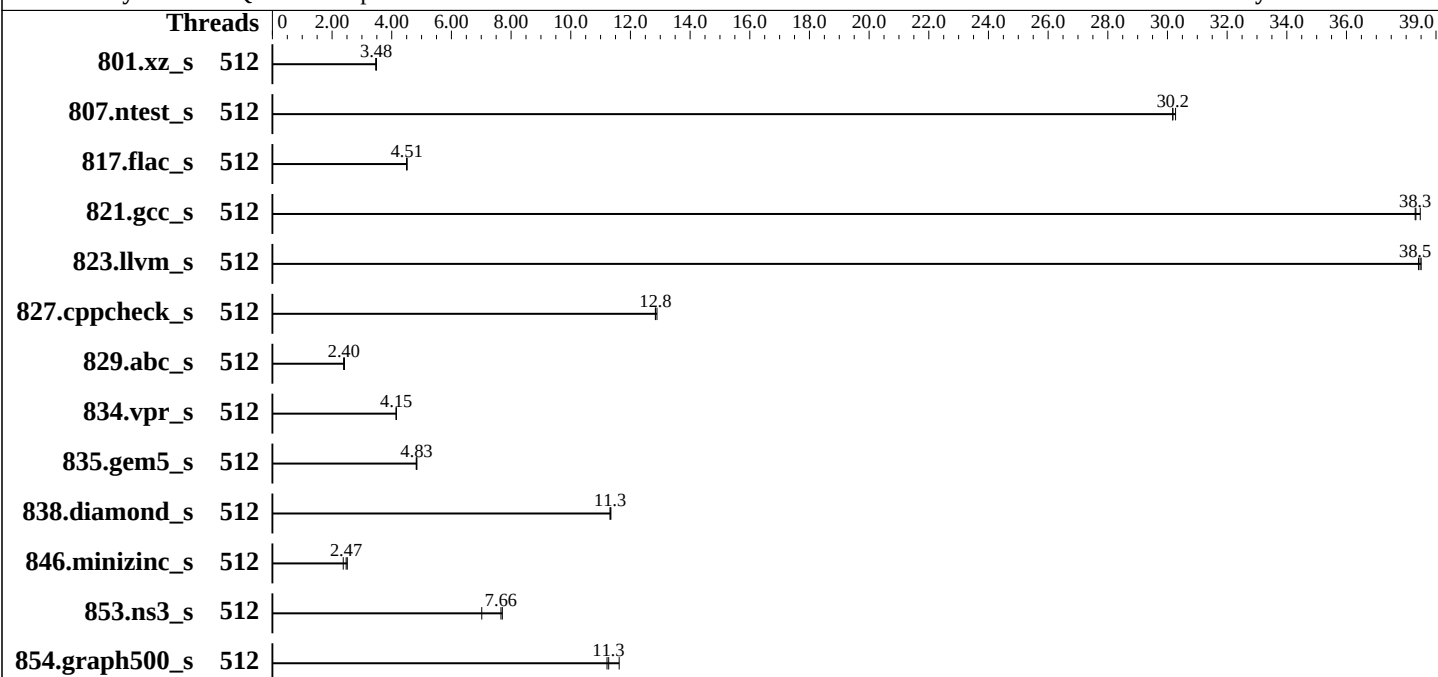
Test Sponsor: Quanta Computer Inc.

Tested by: Quanta Computer Inc.

Test Date: Jul-2026

Hardware Availability: Oct-2024

Software Availability: Jul-2026



Hardware

CPU Name: AMD EPYC 9755
Max MHz: 4100
Nominal: 2700
Enabled: 256 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: 512 MB I+D on chip per chip, 32 MB shared / 8 cores
Other: None
Memory: 2304 GB (24 x 96 GB 2Rx4 PC5-6400B-R)
Storage: 1 x3.84 TB NVMe SSD
Cooling: Air
Other: None

Software

OS: Ubuntu 24.04.3 LTS
6.8.0-136-generic
Compiler: C/C++: Version 5.2.0 of AOCC
Fortran: Flang v22
Compiler Category: Vendor
Firmware: Version 3B10 released Apr-2026
File System: ext4
System State: Run level 5 (graphical multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
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	512	<u>170</u>	<u>3.48</u>	170	3.49	171	3.46							
807.ntest_s	512	37.7	30.3	37.8	30.2	<u>37.8</u>	<u>30.2</u>							
817.flac_s	512	385	4.51	386	4.50	<u>385</u>	<u>4.51</u>							
821.gcc_s	512	53.8	38.5	54.0	38.3	<u>54.0</u>	<u>38.3</u>							
823.llvm_s	512	36.6	38.5	36.7	38.4	<u>36.7</u>	<u>38.5</u>							
827.cppcheck_s	512	<u>87.1</u>	<u>12.8</u>	87.2	12.8	86.8	12.9							
829.abc_s	512	344	2.41	<u>347</u>	<u>2.40</u>	348	2.39							
834.vpr_s	512	230	4.15	230	4.15	<u>230</u>	<u>4.15</u>							
835.gem5_s	512	<u>236</u>	<u>4.83</u>	235	4.84	236	4.82							
838.diamond_s	512	88.4	11.3	88.2	11.3	<u>88.4</u>	<u>11.3</u>							
846.minizinc_s	512	282	2.37	<u>271</u>	<u>2.47</u>	267	2.51							
853.ns3_s	512	150	7.71	164	7.02	<u>151</u>	<u>7.66</u>							
854.graph500_s	512	54.5	11.2	<u>54.2</u>	<u>11.3</u>	52.6	11.6							

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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 --physcpubind=0-15 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 = "0-511"

LD_LIBRARY_PATH =

"/root/cpu2026/amd_speed_aocc520_znver5_A_lib/lib:/root/cpu2026/amd_speed_aocc520_znver5_A_lib/lib32:/opt/AMD/aocc-compiler-5.2.0/ompd:/opt/AMD/aocc-compiler-5.2.0/lib:/opt/AMD/aocc-compiler-5.2.0/lib32:/usr/lib/x86_64-linux-gnu:/usr/lib64:/usr/lib32:/usr/lib:"

MALLOC_CONF = "retain:true"

OMP_THREAD_LIMIT = "512"

General Notes

Binaries were compiled on a system with an AMD EPYC 9754 CPU + 768 GiB Memory using Ubuntu 24.04

Platform Notes

BIOS Configuration:

ACPI CST C2 Latency set to 18

NUMA nodes per socket set to NPS1

Determinism Control is Manual

Determinism Slider set to Power

cTDP Control set to Manual

cTDP set to 500

PPT Control set to Manual

PPT set to 500

Sysinfo program /root/cpu2026/bin/sysinfo

Rev: 779ab2102078707335a329f3a45e2cd

running on quanta Fri Jul 31 10:20:03 2026

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

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Platform Notes (Continued)

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3. Username
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6. /proc/cpuinfo
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9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.16)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
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18. /sys/kernel/mm/transparent_hugepage/khugepaged
19. OS release
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21. /sys/devices/virtual/dmi/id
22. dmidecode
23. BIOS

```
1. uname -srvm
Linux 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul 1 21:53:05 UTC 2026 x86_64
```

```
2. w
10:20:03 up 15 min, 1 user, load average: 0.08, 0.02, 0.01
USER      TTY      FROM          LOGIN@      IDLE   JCPU   PCPU   WHAT
root      tty1      -             10:04      15:32   1.25s   0.15s  python3
./run_amd_speed_aocc520_znver5_A1.py
```

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

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

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Platform Notes (Continued)

```
data(kbytes)          unlimited
stack(kbytes)         unlimited
coredump(blocks)      0
memory(kbytes)        unlimited
locked memory(kbytes) 2048
process               9285512
nofiles               1024
vmemory(kbytes)       unlimited
locks                 unlimited
rtprio                0
```

5. sysinfo process ancestry

```
/sbin/init
/bin/login -f --
-bash
python3 ./run_amd_speed_aocc520_znver5_A1.py
runcpu --config amd_speed_aocc520_znver5_A1.cfg --tune base --reportable --iterations 3 intspeed
runcpu --configfile amd_speed_aocc520_znver5_A1.cfg --tune base --reportable --iterations 3 --nopower
--runmode speed --tune base --size test:train:refspeed intspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.intspeed.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /root/cpu2026
```

6. /proc/cpuinfo

```
model name      : AMD EPYC 9755 128-Core Processor
vendor_id       : AuthenticAMD
cpu family      : 26
model           : 2
stepping        : 1
microcode       : 0xb002162
bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size        : 192 4K pages
cpu cores       : 128
siblings        : 256
2 physical ids (chips)
512 processors (hardware threads)
physical id 0:  core ids 0-127
physical id 1:  core ids 0-127
physical id 0:  apicids 0-255
physical id 1:  apicids 256-511
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

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Platform Notes (Continued)

From lscpu from util-linux 2.39.3:

Architecture:	x86_64
CPU op-mode(s):	32-bit, 64-bit
Address sizes:	46 bits physical, 57 bits virtual
Byte Order:	Little Endian
CPU(s):	512
On-line CPU(s) list:	0-511
Vendor ID:	AuthenticAMD
BIOS Vendor ID:	Advanced Micro Devices, Inc.
Model name:	AMD EPYC 9755 128-Core Processor
BIOS Model name:	AMD EPYC 9755 128-Core Processor
	Unknown CPU @ 2.7GHz
BIOS CPU family:	107
CPU family:	26
Model:	2
Thread(s) per core:	2
Core(s) per socket:	128
Socket(s):	2
Stepping:	1
Frequency boost:	enabled
CPU(s) scaling MHz:	66%
CPU max MHz:	4121.1909
CPU min MHz:	1500.0000
BogoMIPS:	5391.60

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 svm 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 vnmi avx512vbmi umip pku ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg avx512_vpopcntdq la57 rdpid bus_lock_detect movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect flush_l1d sev sev_es debug_swap srso_user_kernel_no

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Platform Notes (Continued)

Virtualization: AMD-V
L1d cache: 12 MiB (256 instances)
L1i cache: 8 MiB (256 instances)
L2 cache: 256 MiB (256 instances)
L3 cache: 1 GiB (32 instances)
NUMA node(s): 2
NUMA node0 CPU(s): 0-127,256-383
NUMA node1 CPU(s): 128-255,384-511
Vulnerability Gather data sampling: Not affected
Vulnerability Indirect target selection: 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/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP always-on; PBR SB-eIBRS Not affected; BHI Not affected
Vulnerability Srbds: Not affected
Vulnerability Tsa: 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	12M	12	Data	1	64	1	64
L1i	32K	8M	8	Instruction	1	64	1	64
L2	1M	256M	16	Unified	2	1024	1	64
L3	32M	1G	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: 0-127,256-383
node 0 size: 1160488 MB
node 0 free: 1156230 MB
node 1 cpus: 128-255,384-511
node 1 size: 1161029 MB
node 1 free: 1152615 MB
node distances:
node 0 1

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Platform Notes (Continued)

0: 10 32
1: 32 10

9. /proc/meminfo
MemTotal: 2377234900 kB

10. who -r
run-level 5 Jul 31 10:04

11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.16)
Default Target Status
graphical running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	apparmor blk-availability cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ grub-common ipmievdev keyboard-setup lvm2-monitor multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd tuned ua-reboot-cmds ubuntu-advantage vgauth
enabled-runtime	netplan-ovs-cleanup rc-local systemd-fsck-root systemd-remount-fs
disabled	ModemManager apport cloud-config cloud-final cloud-init console-getty debug-shell gpu-manager grub-initrd-fallback iscsid nftables powertop rpcbind rsync serial-getty@ snapd ssh sysstat systemd-boot-check-no-failures systemd-conext 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 thermald udisks2 ufw unattended-upgrades upower
generated	openipmi
indirect	systemd-sysupdate systemd-sysupdate-reboot uidd
masked	cryptdisks cryptdisks-early hwclock multipath-tools-boot nfs-common screen-cleanup sudo x11-common

13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-6.8.0-136-generic
root=UUID=d680ea38-6dda-4ab8-88d3-4f36bc5baa6c
ro
amd_iommu=on
iommu=pt

14. cpupower frequency-info

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Platform Notes (Continued)

analyzing CPU 266:

current policy: frequency should be within 1.50 GHz and 2.70 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: 2700MHz

15. tuned-adm active

Current active profile: throughput-performance

16. sysctl

kernel.numa_balancing	1
kernel.randomize_va_space	0
vm.compaction_proactiveness	20
vm.dirty_background_bytes	0
vm.dirty_background_ratio	10
vm.dirty_bytes	0
vm.dirty_expire_centisecs	3000
vm.dirty_ratio	8
vm.dirty_writeback_centisecs	500
vm.dirtytime_expire_seconds	43200
vm.extfrag_threshold	500
vm.min_unmapped_ratio	1
vm.nr_hugepages	0
vm.nr_hugepages_mempolicy	0
vm.nr_overcommit_hugepages	0
vm.swappiness	1
vm.watermark_boost_factor	15000
vm.watermark_scale_factor	10
vm.zone_reclaim_mode	1

17. /sys/kernel/mm/transparent_hugepage

defrag	[always]	defer	defer+madvise	madvise	never
enabled	[always]	madvise	never		
hpage_pmd_size	2097152				
shmem_enabled	always	within_size	advise	[never]	deny force

18. /sys/kernel/mm/transparent_hugepage/khugepaged

alloc_sleep_millisecs 60000

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Platform Notes (Continued)

```
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 Ubuntu 24.04.3 LTS
```

20. Disk information

SPEC is set to: /root/cpu2026

```
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p2 ext4 3.5T 57G 3.3T 2% /
```

21. /sys/devices/virtual/dmi/id

```
Vendor: Quanta Cloud Technology Inc.
Product: QuantaGrid D44N-1U
```

22. 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:

```
8x Samsung M321RYGA0PB2-CCPEC 96 GB 2 rank 6400
14x Samsung M321RYGA0PB2-CCPPC 96 GB 2 rank 6400
2x Samsung M321RYGA0PB2-CCPWC 96 GB 2 rank 6400
```

23. BIOS

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

```
BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 3B10.QCT301
BIOS Date: 04/29/2026
BIOS Revision: 5.35
Firmware Revision: 5.7
```



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Compiler Version Notes

C | 854.graph500_s(base)

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin

C++ | 807.ntest_s(base) 827.cppcheck_s(base) 853.ns3_s(base)

AMD clang version 17.0.6 (CLANG: AOCC_5.2.0-Build#2035 2026_04_10)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.2.0-4925-2035/bin

C++, C | 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_5.2.0-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 Portability Flags

801.xz_s: -DSPEC_LP64

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

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Quanta Cloud Technology

(Test Sponsor: Quanta Computer Inc.)

QuantaGrid D44N-1U

AMD EPYC 9755

SPECspeed®2026_int_base = 8.40

SPECspeed®2026_int_peak = Not Run

CPU2026 License: 9050

Test Sponsor: Quanta Computer Inc.

Tested by: Quanta Computer Inc.

Test Date: Jul-2026

Hardware Availability: Oct-2024

Software Availability: Jul-2026

Base Portability Flags (Continued)

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 -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=2000000
-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=2000000
-fopenmp -DSPEC_OPENMP -fvirtual-function-elimination
-fvisibility=hidden -lamdalloc -lamdlibm -fopenmp=libomp -lomp



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Base Other Flags

C benchmarks:

-Wno-return-type

Benchmarks using both C and C++:

-Wno-return-type

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.00.html>

http://www.spec.org/cpu2026/results/flags/Quanta-Computer-Inc-amd-speccpu-setting-v1.1_AMD_Turin.html

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-08-11.00.xml>

http://www.spec.org/cpu2026/results/flags/Quanta-Computer-Inc-amd-speccpu-setting-v1.1_AMD_Turin.xml

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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 2026-07-31 06:20:02-0400.

Report generated on 2026-10-07 10:46:53 by CPU2026 PDF formatter (unknown).

Originally published on 2026-10-07.