SPEC CPU®2026 Integer Rate Result

Quanta Cloud Technology

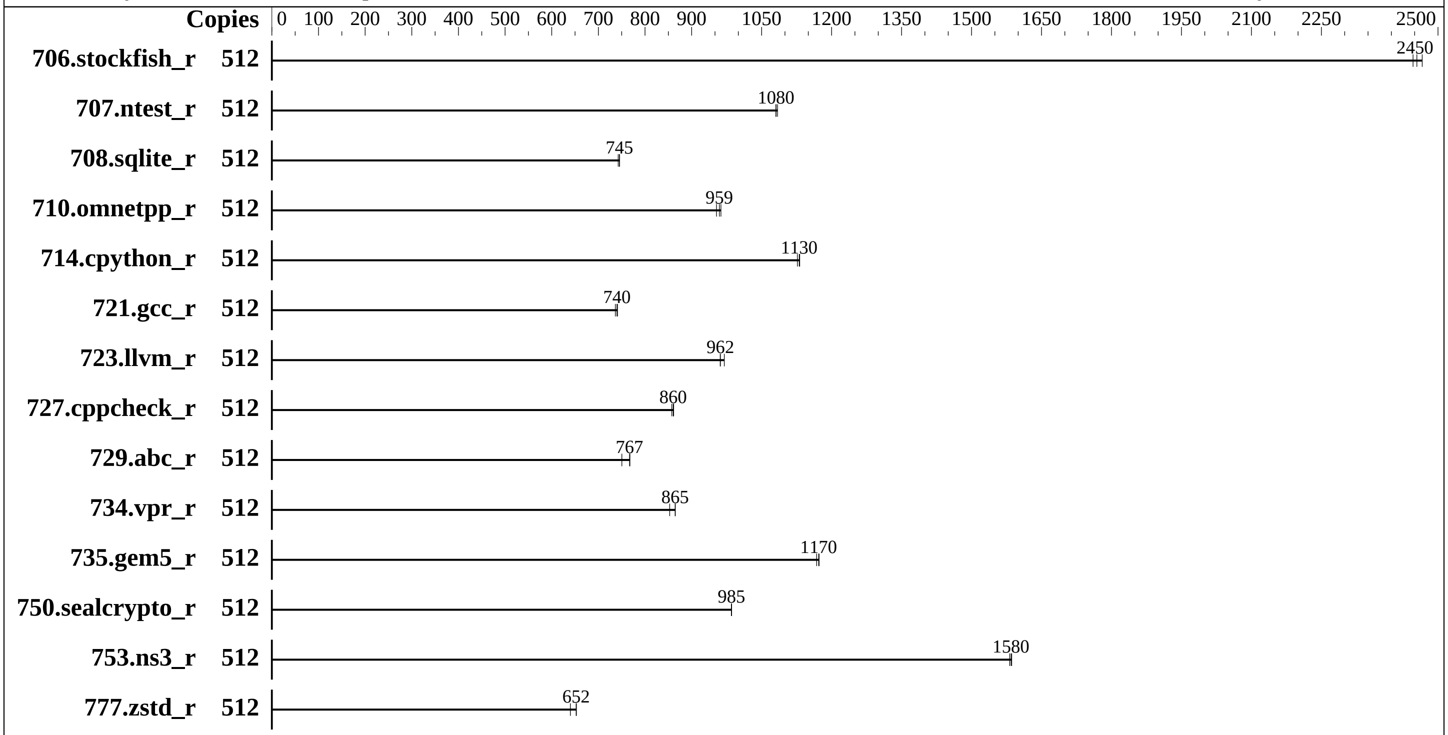
(Test Sponsor: Quanta Computer Inc.)

QuantaGrid D44N-1U
AMD EPYC 9755

SPECrate®2026_int_base = 1000

SPECrate®2026_int_peak = Not Run

CPU2026 License:	9050	**Test Date:**	Aug-2026
Test Sponsor:	Quanta Computer Inc.	**Hardware Availability:**	Oct-2024
Tested by:	Quanta Computer Inc.	**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++/Fortran: Version 5.1.0 of AOCC
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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	512	264	2450	262	2470	**263**	**2450**							
707.ntest_r	512	280	1080	280	1080	**280**	**1080**							
708.sqlite_r	512	**363**	**745**	364	743	363	745							
710.omnetpp_r	512	258	963	261	953	**259**	**959**							
714.cpython_r	512	218	1130	217	1130	**217**	**1130**							
721.gcc_r	512	**475**	**740**	474	741	477	736							
723.llvm_r	512	268	970	**270**	**962**	270	961							
727.cppcheck_r	512	**214**	**860**	214	857	213	861							
729.abc_r	512	306	768	**306**	**767**	313	750							
734.vpr_r	512	**273**	**865**	277	853	273	865							
735.gem5_r	512	213	1170	**213**	**1170**	213	1170							
750.sealcrypto_r	512	279	985	278	986	**279**	**985**							
753.ns3_r	512	**198**	**1580**	198	1580	198	1590							
777.zstd_r	512	515	640	505	653	**505**	**652**							

SPECrate®2026_int_base = 1000

SPECrate®2026_int_peak = Not Run

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 =
     "/root/cpu2026/amd_rate_aocc510_znver5_B_lib/lib:/root/cpu2026/amd_rate_
     aocc510_znver5_B_lib/lib32:/opt/AMD/aocc-compiler-5.2.0/ompd:/opt/AMD/ao
     cc-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"
```

General Notes

```
Binaries were compiled on a system with 2x AMD EPYC Venice256 CPU + 2TiB Memory using Ubuntu 24.04
```

Platform Notes

```
 BIOS Configuration:
 NUMA nodes per socket set to NPS4
 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: 779ab21020787073335a329f3a45e2cd
 running on quanta Mon Aug  3 17:53:38 2026

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

 ------------------------------------------------------------
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 ------------------------------------------------------------
```

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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 (255.4-1ubuntu8.16)
 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 6.8.0-136-generic #136-Ubuntu SMP PREEMPT_DYNAMIC Wed Jul  1 21:53:05 UTC 2026 x86_64

------------------------------------------------------------
2. w
   17:53:38 up 15 min,  1 user,  load average: 0.31, 0.08, 0.07
  USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU  WHAT
  root     tty1     -                17:38   15:33   1.27s  0.12s python3 ./run_amd_rate_aocc510_znver5_B1.py

------------------------------------------------------------
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) 2048
  process              9285508
  nofiles              1024
  vmemory(kbytes)      unlimited
  locks                unlimited
  rtprio               0

------------------------------------------------------------
5. sysinfo process ancestry
 /sbin/init
 /bin/login -f --
 -bash
 python3 ./run_amd_rate_aocc510_znver5_B1.py
 runcpu --config amd_rate_aocc510_znver5_B1.cfg --tune base --reportable --iterations 3 intrate
 runcpu --configfile amd_rate_aocc510_znver5_B1.cfg --tune base --reportable --iterations 3 --nopower
   --runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2026.001/templogs/preenv.intrate.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

From lscpu from util-linux 2.39.3:
  Architecture:                          x86_64
  CPU op-mode(s):                        32-bit, 64-bit
```

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Platform Notes (Continued)

```
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:                       5391.52
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
Virtualization:                 AMD-V
L1d cache:                      12 MiB (256 instances)
L1i cache:                      8 MiB (256 instances)
L2 cache:                       256 MiB (256 instances)
```

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Platform Notes (Continued)

```
  L3 cache:                                 1 GiB (32 instances)
  NUMA node(s):                             8
  NUMA node0 CPU(s):                        0-31,256-287
  NUMA node1 CPU(s):                        32-63,288-319
  NUMA node2 CPU(s):                        64-95,320-351
  NUMA node3 CPU(s):                        96-127,352-383
  NUMA node4 CPU(s):                        128-159,384-415
  NUMA node5 CPU(s):                        160-191,416-447
  NUMA node6 CPU(s):                        192-223,448-479
  NUMA node7 CPU(s):                        224-255,480-511
  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; PBRSB-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: 8 nodes (0-7)
   node 0 cpus: 0-31,256-287
   node 0 size: 289684 MB
   node 0 free: 288817 MB
   node 1 cpus: 32-63,288-319
   node 1 size: 290238 MB
   node 1 free: 289557 MB
```

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Platform Notes (Continued)

```
    node 2 cpus: 64-95,320-351
    node 2 size: 290282 MB
    node 2 free: 289685 MB
    node 3 cpus: 96-127,352-383
    node 3 size: 290282 MB
    node 3 free: 289773 MB
    node 4 cpus: 128-159,384-415
    node 4 size: 290282 MB
    node 4 free: 283110 MB
    node 5 cpus: 160-191,416-447
    node 5 size: 290282 MB
    node 5 free: 289669 MB
    node 6 cpus: 192-223,448-479
    node 6 size: 290282 MB
    node 6 free: 287637 MB
    node 7 cpus: 224-255,480-511
    node 7 size: 290182 MB
    node 7 free: 289502 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:       2377233832 kB

  ------------------------------------------------------------
  10. who -r
    run-level 5 Aug 3 17:38

  ------------------------------------------------------------
  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 ipmievd keyboard-setup lvm2-monitor multipathd networkd-dispatcher
```

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Platform Notes (Continued)

```
                   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-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 thermald udisks2 ufw unattended-upgrades upower
  generated        openipmi
  indirect         systemd-sysupdate systemd-sysupdate-reboot uuidd
  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
  nohz_full=1-511
  rcu_nocbs=1-511

------------------------------------------------------------
14. cpupower frequency-info
  analyzing CPU 71:
    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
```

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Platform Notes (Continued)

```
    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
    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/nvme1n1p2 ext4  3.5T   57G  3.3T   2% /

  ------------------------------------------------------------
```

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Platform Notes (Continued)

```
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
```

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
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
------------------------------------------------------------------------------
```

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Compiler Version Notes (Continued)

```
==============================================================================
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 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

(Continued on next page)

Base Optimization Flags (Continued)

Benchmarks using both C and C++ (continued):

```
-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
```

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.00.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.2026-05-04.00.xml
http://www.spec.org/cpu2026/results/flags/Quanta-Computer-Inc-amd-speccpu-setting-v1.1_AMD_Turin.xml

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 2026-08-03 13:53:37-0400.
Report generated on 2026-10-07 10:46:48 by CPU2026 PS formatter (86729d3b).
Originally published on 2026-10-07.