



# SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

## Dell Inc.

SPECrate®2026\_int\_base = 655

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECrate®2026\_int\_peak = 655

CPU2026 License: 6573

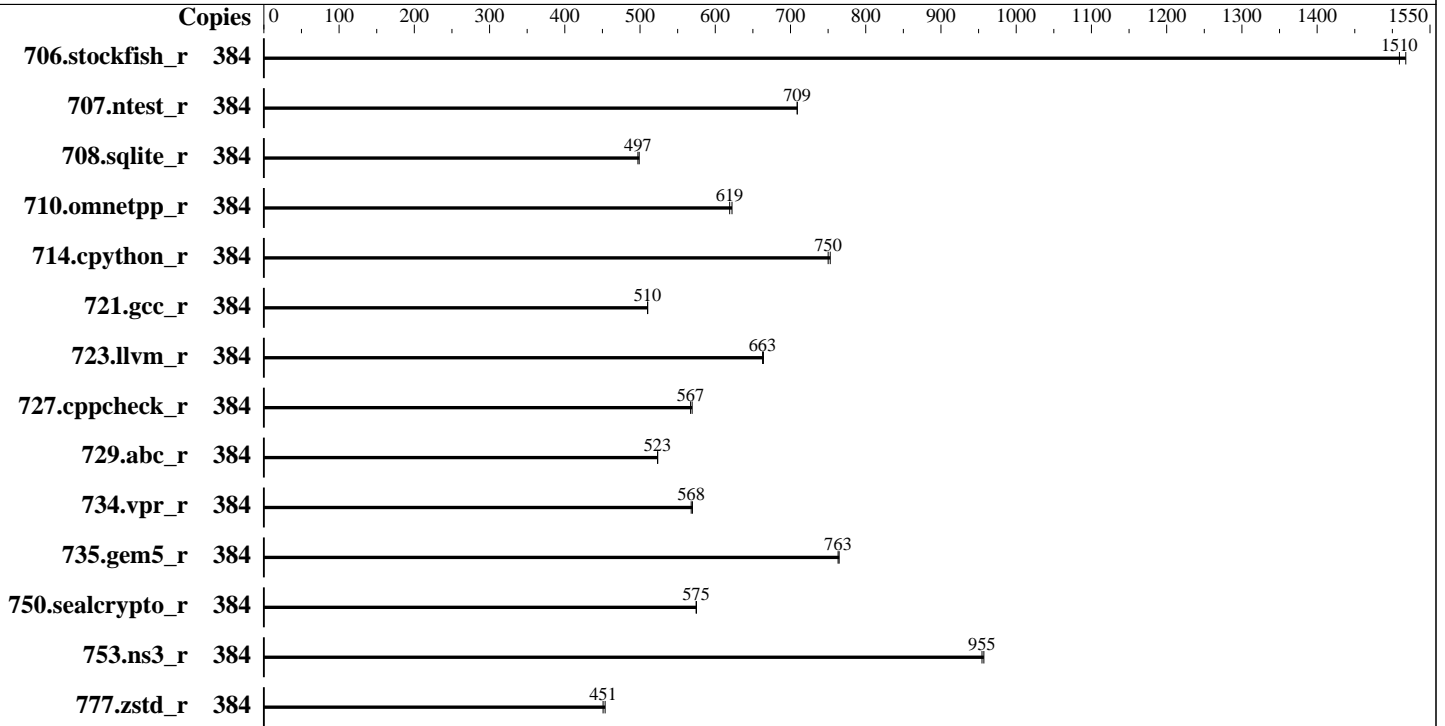
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Nov-2022

Tested by: Dell Inc.

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9654  
 Max MHz: 3700  
 Nominal: 2400  
 Enabled: 192 cores, 2 chips, 2 threads/core  
 Orderable: 1,2 chips  
 Cache L1: 32 KB I + 32 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: 2304 GB (24 x 96 GB 2Rx4 PC5-5600B-R, running at 4800)  
 Storage: 200 GB on tmpfs  
 Cooling: Air  
 Other: None

### Software

OS: Ubuntu 24.04 LTS  
 6.8.0-44-generic  
 Compiler: C/C++/Fortran: Version 5.1.0 of AOCC  
 Compiler Category: Vendor  
 Firmware: Version 1.15.3 released Oct-2025  
 File System: tmpfs  
 System State: Run level 5 (graphical multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: 64-bit  
 Other: None  
 Power Management: BIOS 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	319	1520	<b><u>321</u></b>	<b><u>1510</u></b>			384	319	1520	<b><u>321</u></b>	<b><u>1510</u></b>		
707.ntest_r	384	321	709	<b><u>321</u></b>	<b><u>709</u></b>			384	321	709	<b><u>321</u></b>	<b><u>709</u></b>		
708.sqlite_r	384	406	499	<b><u>408</u></b>	<b><u>497</u></b>			384	406	499	<b><u>408</u></b>	<b><u>497</u></b>		
710.omnetpp_r	384	<b><u>301</u></b>	<b><u>619</u></b>	300	622			384	<b><u>301</u></b>	<b><u>619</u></b>	300	622		
714.cpython_r	384	<b><u>245</u></b>	<b><u>750</u></b>	244	753			384	<b><u>245</u></b>	<b><u>750</u></b>	244	753		
721.gcc_r	384	516	510	<b><u>517</u></b>	<b><u>510</u></b>			384	516	510	<b><u>517</u></b>	<b><u>510</u></b>		
723.llvm_r	384	293	664	<b><u>294</u></b>	<b><u>663</u></b>			384	293	664	<b><u>294</u></b>	<b><u>663</u></b>		
727.cppcheck_r	384	<b><u>243</u></b>	<b><u>567</u></b>	242	569			384	<b><u>243</u></b>	<b><u>567</u></b>	242	569		
729.abc_r	384	<b><u>337</u></b>	<b><u>523</u></b>	337	523			384	<b><u>337</u></b>	<b><u>523</u></b>	337	523		
734.vpr_r	384	<b><u>312</u></b>	<b><u>568</u></b>	311	570			384	<b><u>312</u></b>	<b><u>568</u></b>	311	570		
735.gem5_r	384	245	765	<b><u>245</u></b>	<b><u>763</u></b>			384	245	765	<b><u>245</u></b>	<b><u>763</u></b>		
750.sealcrypto_r	384	<b><u>358</u></b>	<b><u>575</u></b>	358	575			384	<b><u>358</u></b>	<b><u>575</u></b>	358	575		
753.ns3_r	384	246	957	<b><u>247</u></b>	<b><u>955</u></b>			384	246	957	<b><u>247</u></b>	<b><u>955</u></b>		
777.zstd_r	384	545	454	<b><u>548</u></b>	<b><u>451</u></b>			384	545	454	<b><u>548</u></b>	<b><u>451</u></b>		

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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/>

## 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 =  
 "/mnt/ramdisk/cpu2026rc2/amd\_rate\_aocc510\_znver5\_A\_lib/lib:/mnt/ramdisk/  
 cpu2026rc2/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  
 Benchmark run from a 200 GB ramdisk created with the cmd: "mount -t tmpfs -o size=200G tmpfs /mnt/ramdisk"

## Platform Notes

BIOS Settings:  
 Virtualization Technology : Disabled  
 NUMA Nodes Per Socket : 4  
  
 System Profile : Custom  
 C-States : Disabled  
 Memory Patrol Scrub : Disabled  
 PCI ASPM L1 Link Power Management : Disabled  
 Determinism Slider : Power Determinism  
 Dram Refresh Delay : Performance  
 DIMM Self Healing -  
 on Uncorrectable Memory Error : Disabled  
  
 Sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo  
 Rev: 069f95da7e7f5d81b2ce48a82150e54f  
 running on H27JNZ3-R7625 Sat Feb 7 18:36:05 2026

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## Platform Notes (Continued)

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

### Table of contents

- 1. uname -srvm
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- 12. Services, from systemctl list-unit-files
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- 18. OS release
- 19. Disk information
- 20. /sys/devices/virtual/dmi/id
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- 22. BIOS

```
1. uname -srvm
Linux 6.8.0-44-generic #44-Ubuntu SMP PREEMPT_DYNAMIC Tue Aug 13 13:35:26 UTC 2024 x86_64
```

```
2. w
18:36:05 up 4 min, 1 user, load average: 0.50, 0.20, 0.07
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
root      tty1    -             18:32      53.00s    4.67s    2.36s    /bin/bash ./amd_rate_aocc510_znver5_A1.sh
```

```
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) 2097152
process               9286419
nofiles               1024
vmemory(kbytes)       unlimited
locks                 unlimited
rtprio                0

```

```

-----
5. sysinfo process ancestry
/bin/init
/bin/login -p --
-bash
/bin/bash /home/DellFiles/bin/DELL_rate.sh
/bin/bash /home/DellFiles/bin/dell-run-main.sh rate
/bin/bash /home/DellFiles/bin/dell-run-main.sh rate
/bin/bash /home/DellFiles/bin/AMD/dell-run-specpcpu.sh rate --define DL-VERS=6.4_T17 --output_format
html,pdf,txt
python3 ./run_amd_rate_aocc510_znver5_A1.py
/bin/bash ./amd_rate_aocc510_znver5_A1.sh
runccpu --config amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=6.4_T17 --output_format html,pdf,txt intrate
runccpu --configfile amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=6.4_T17 --output_format html,pdf,txt --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_runccpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026rc2

```

```

-----
6. /proc/cpuinfo
model name           : AMD EPYC 9654 96-Core Processor
vendor_id            : AuthenticAMD
cpu family           : 25
model                : 17
stepping             : 1
microcode            : 0xa101158
bugs                  : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso
TLB size             : 3584 4K pages
cpu cores            : 96
siblings              : 192
2 physical ids (chips)
384 processors (hardware threads)
physical id 0: core ids 0-95

```

(Continued on next page)



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### Platform Notes (Continued)

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:

```

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:             AMD
Model name:                  AMD EPYC 9654 96-Core Processor
BIOS Model name:            AMD EPYC 9654 96-Core Processor      CPU @ 2.4GHz
BIOS CPU family:            107
CPU family:                  25
Model:                       17
Thread(s) per core:         2
Core(s) per socket:         96
Socket(s):                   2
Stepping:                    1
Frequency boost:             enabled
CPU(s) scaling MHz:         42%
CPU max MHz:                 3707.8120
CPU min MHz:                 1500.0000
BogoMIPS:                    4800.14

```

```

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
                             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 wbnoinvd
                             amd_ppin cppc arat npt lbrv svm_lock nrip_save tsc_scale vmcb_clean
                             flushbyasid decodeassists pausefilter pfthreshold avic

```

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## Platform Notes (Continued)

```
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

L1d cache:	6 MiB (192 instances)
L1i cache:	6 MiB (192 instances)
L2 cache:	192 MiB (192 instances)
L3 cache:	768 MiB (24 instances)
NUMA node(s):	8
NUMA node0 CPU(s):	0-23,192-215
NUMA node1 CPU(s):	24-47,216-239
NUMA node2 CPU(s):	48-71,240-263
NUMA node3 CPU(s):	72-95,264-287
NUMA node4 CPU(s):	96-119,288-311
NUMA node5 CPU(s):	120-143,312-335
NUMA node6 CPU(s):	144-167,336-359
NUMA node7 CPU(s):	168-191,360-383
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:	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; PBRSE-eIBRS Not affected; BHI Not affected
Vulnerability Srbds:	Not affected
Vulnerability Tsx async abort:	Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	32K	6M	8	Data	1	64	1	64
L1i	32K	6M	8	Instruction	1	64	1	64
L2	1M	192M	8	Unified	2	2048	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: 8 nodes (0-7)  
node 0 cpus: 0-23,192-215  
node 0 size: 289766 MB  
node 0 free: 276153 MB

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```

node 1 cpus: 24-47,216-239
node 1 size: 290286 MB
node 1 free: 289505 MB
node 2 cpus: 48-71,240-263
node 2 size: 290286 MB
node 2 free: 289713 MB
node 3 cpus: 72-95,264-287
node 3 size: 290270 MB
node 3 free: 289773 MB
node 4 cpus: 96-119,288-311
node 4 size: 290286 MB
node 4 free: 289590 MB
node 5 cpus: 120-143,312-335
node 5 size: 290286 MB
node 5 free: 289717 MB
node 6 cpus: 144-167,336-359
node 6 size: 290286 MB
node 6 free: 289596 MB
node 7 cpus: 168-191,360-383
node 7 size: 290209 MB
node 7 free: 289628 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:      2377395832 kB

```

```

-----
10. who -r
run-level 5 Feb 7 18:31

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-1ubuntu8)
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 lm-sensors lvm2-monitor multipathd networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw vgauth
enabled-runtime	netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled	console-getty debug-shell 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-sysex systemd-time-wait-sync upower
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-6.8.0-44-generic  
 root=UUID=8458ae54-58cc-4621-9289-b1d743fde503  
 ro

-----

14. cpupower frequency-info  
 analyzing CPU 113:  
 current policy: frequency should be within 1.50 GHz and 2.40 GHz.  
 The governor "schedutil" may decide which speed to use  
 within this range.

boost state support:  
 Supported: yes  
 Active: yes  
 Boost States: 0  
 Total States: 3  
 Pstate-P0: 2400MHz

-----

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

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### Platform Notes (Continued)

```

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: /mnt/ramdisk/cpu2026rc2
Filesystem      Type      Size  Used Avail Use% Mounted on
tmpfs           tmpfs     200G   11G  190G   6% /mnt/ramdisk

```

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:          Dell Inc.
Product:         PowerEdge R7625
Product Family: PowerEdge
Serial:          H27JNZ3

```

(Continued on next page)



# SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECrate®2026\_int\_base = 655

PowerEdge R7625 (AMD EPYC 9654 96-Core Processor)

SPECrate®2026\_int\_peak = 655

CPU2026 License: 6573

Test Sponsor: Dell Inc.

Tested by: Dell Inc.

Test Date: Feb-2026

Hardware Availability: Nov-2022

Software Availability: Jan-2026

## 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:

24x 802C0000802C MTC40F204WS1RC56BB1 96 GB 2 rank 5600, configured at 4800

### 22. BIOS

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

BIOS Vendor: Dell Inc.

BIOS Version: 1.15.3

BIOS Date: 10/29/2025

BIOS Revision: 1.15

## 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

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

(Continued on next page)



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## Compiler Version Notes (Continued)

## 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
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

```

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## Base Optimization Flags (Continued)

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
-freemap-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
```

## 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++:

(Continued on next page)



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**CPU2026 License:** 6573

**Test Date:** Feb-2026

**Test Sponsor:** Dell Inc.

**Hardware Availability:** Nov-2022

**Tested by:** Dell Inc.

**Software Availability:** Jan-2026

## Peak Optimization Flags (Continued)

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/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.8.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/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.8.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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