



# SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

## Dell Inc.

SPECrate®2026\_int\_base = 1230

PowerEdge R7725 (AMD EPYC 9965 192-Core Processor)

SPECrate®2026\_int\_peak = 1230

CPU2026 License: 6573

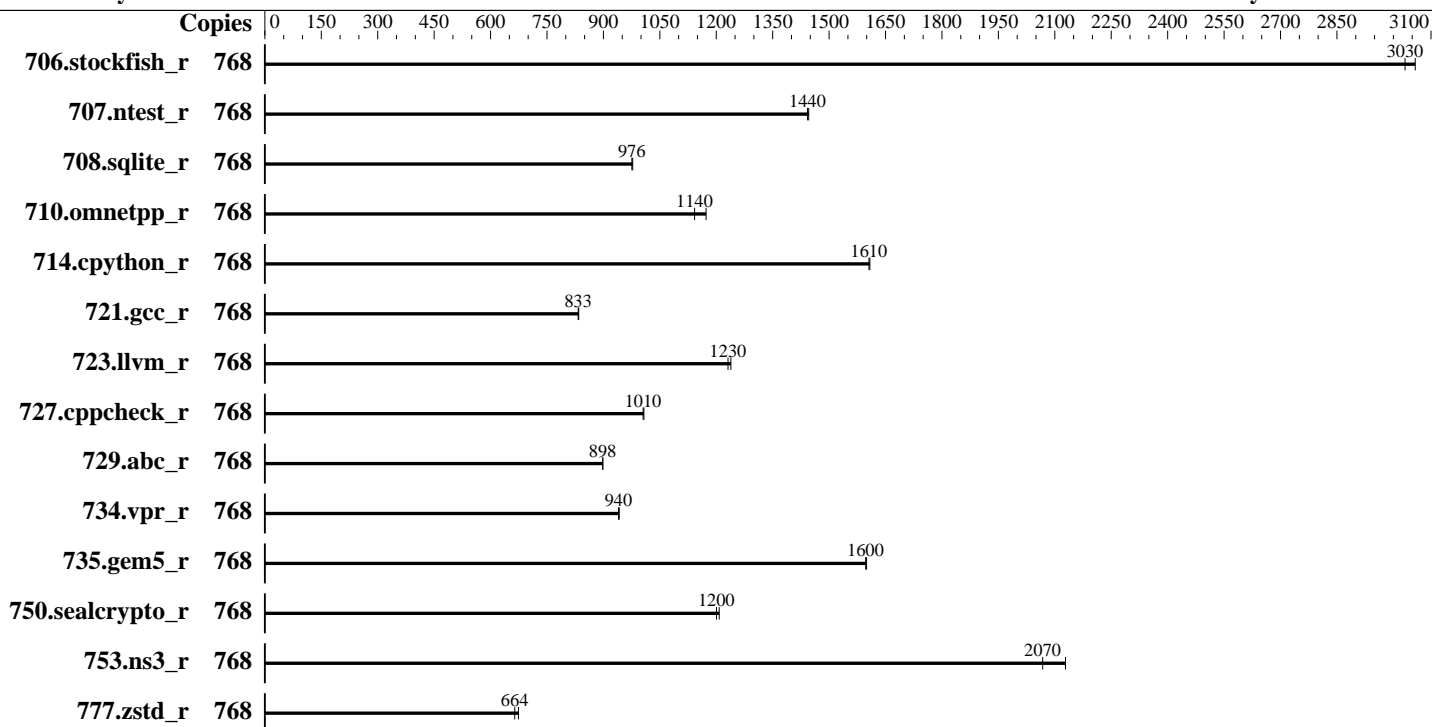
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Mar-2025

Tested by: Dell Inc.

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9965  
 Max MHz: 3700  
 Nominal: 2250  
 Enabled: 384 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: 384 MB I+D on chip per chip, 32 MB shared / 16 cores  
 Other: None  
 Memory: 1536 GB (24 x 64 GB 2Rx4 PC5-6400B-R)  
 Storage: 350 GB on tmpfs  
 Cooling: Air  
 Other: None

### Software

OS: Ubuntu 24.04.2 LTS  
 6.8.0-55-generic  
 Compiler: C/C++/Fortran: Version 5.1.0 of AOCC  
 Compiler Category: Vendor  
 Firmware: Version 1.5.3 released Oct-2025  
 File System: tmpfs  
 System State: Run level 3 (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						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	768	316	3060	<b><u>319</u></b>	<b><u>3030</u></b>			768	316	3060	<b><u>319</u></b>	<b><u>3030</u></b>		
707.ntest_r	768	<b><u>315</u></b>	<b><u>1440</u></b>	314	1450			768	<b><u>315</u></b>	<b><u>1440</u></b>	314	1450		
708.sqlite_r	768	415	978	<b><u>416</u></b>	<b><u>976</u></b>			768	415	978	<b><u>416</u></b>	<b><u>976</u></b>		
710.omnetpp_r	768	318	1170	<b><u>327</u></b>	<b><u>1140</u></b>			768	318	1170	<b><u>327</u></b>	<b><u>1140</u></b>		
714.cpython_r	768	<b><u>229</u></b>	<b><u>1610</u></b>	229	1610			768	<b><u>229</u></b>	<b><u>1610</u></b>	229	1610		
721.gcc_r	768	631	834	<b><u>633</u></b>	<b><u>833</u></b>			768	631	834	<b><u>633</u></b>	<b><u>833</u></b>		
723.llvm_r	768	<b><u>316</u></b>	<b><u>1230</u></b>	314	1240			768	<b><u>316</u></b>	<b><u>1230</u></b>	314	1240		
727.cppcheck_r	768	<b><u>274</u></b>	<b><u>1010</u></b>	274	1010			768	<b><u>274</u></b>	<b><u>1010</u></b>	274	1010		
729.abc_r	768	392	898	<b><u>392</u></b>	<b><u>898</u></b>			768	392	898	<b><u>392</u></b>	<b><u>898</u></b>		
734.vpr_r	768	376	942	<b><u>377</u></b>	<b><u>940</u></b>			768	376	942	<b><u>377</u></b>	<b><u>940</u></b>		
735.gem5_r	768	234	1600	<b><u>234</u></b>	<b><u>1600</u></b>			768	234	1600	<b><u>234</u></b>	<b><u>1600</u></b>		
750.sealcrypto_r	768	341	1210	<b><u>343</u></b>	<b><u>1200</u></b>			768	341	1210	<b><u>343</u></b>	<b><u>1200</u></b>		
753.ns3_r	768	221	2130	<b><u>228</u></b>	<b><u>2070</u></b>			768	221	2130	<b><u>228</u></b>	<b><u>2070</u></b>		
777.zstd_r	768	734	674	<b><u>745</u></b>	<b><u>664</u></b>			768	734	674	<b><u>745</u></b>	<b><u>664</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 350 GB ramdisk created with the cmd: "mount -t tmpfs -o size=350G tmpfs /mnt/ramdisk"

## Platform Notes

BIOS Settings:

NUMA Nodes Per Socket : 4

System Profile : Custom

CPU Power Management : Maximum Performance

C-States : Disabled

Memory Patrol Scrub : Disabled

PCI ASPM L1 Link Power Management : Disabled

Periodic Directory Rinse Tuning : Blended

Determinism Control : Manual

Determinism Slider : Power Determinism

Optimizer Mode : Enabled

Adaptive Allocation : Enabled

Dram Refresh Delay : Performance

Sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo

Rev: 069f95da7e7f5d81b2ce48a82150e54f

running on SLR7753-R7725 Thu Feb 5 16:07:36 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
- 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 (255.4-1ubuntu8.6)
- 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 6.8.0-55-generic #57-Ubuntu SMP PREEMPT_DYNAMIC Wed Feb 12 23:42:21 UTC 2025 x86_64
```

```
2. w
16:07:36 up 9 min, 1 user, load average: 0.25, 0.19, 0.10
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
root      ttyL    -              15:58      1:04      2.48s    1.17s    /bin/bash ./amd_rate_aocc510_znver5_A1.sh
```

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

```
4. ulimit -a
```

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### Platform Notes (Continued)

```

time(seconds)           unlimited
file(blocks)            unlimited
data(kbytes)            unlimited
stack(kbytes)           unlimited
coredump(blocks)       0
memory(kbytes)          unlimited
locked memory(kbytes)  2097152
process                 6187509
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-speccpu.sh rate --define DL-VERS=7.0_T01 --output_format
html,pdf,txt
python3 ./run_amd_rate_aocc510_znver5_A1.py
/bin/bash ./amd_rate_aocc510_znver5_A1.sh
runcpu --config amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=7.0_T01 --output_format html,pdf,txt intrate
runcpu --configfile amd_rate_aocc510_znver5_A1.cfg --tune base --reportable --iterations 2 --define
DL-VERS=7.0_T01 --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_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026rc2

```

```

-----
6. /proc/cpuinfo
model name      : AMD EPYC 9965 192-Core Processor
vendor_id      : AuthenticAMD
cpu family     : 26
model          : 17
stepping       : 0
microcode      : 0xb101054
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size      : 192 4K pages
cpu cores     : 192
siblings      : 384
2 physical ids (chips)

```

(Continued on next page)



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### Platform Notes (Continued)

768 processors (hardware threads)

physical id 0: core ids 0-191

physical id 1: core ids 0-191

physical id 0: apicids 0-383

physical id 1: apicids 512-895

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):                       768
On-line CPU(s) list:         0-767
Vendor ID:                   AuthenticAMD
BIOS Vendor ID:              AMD
Model name:                   AMD EPYC 9965 192-Core Processor
BIOS Model name:             AMD EPYC 9965 192-Core Processor      CPU @ 2.2GHz
BIOS CPU family:             107
CPU family:                   26
Model:                        17
Thread(s) per core:          2
Core(s) per socket:          192
Socket(s):                    2
Stepping:                     0
Frequency boost:              enabled
CPU(s) scaling MHz:          61%
CPU max MHz:                  3700.1951
CPU min MHz:                  1500.0000
BogoMIPS:                     4493.33

```

```

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
rdtsmp 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
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 invpcid cqm rdt_a avx512f avx512dq rdseed adx smap
avx512ifma clflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt
xsaves xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
cqm_mbm_local user_shstk avx_vnni avx512_bf16 clzero irperf

```

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## Platform Notes (Continued)

```

xsaveerptr rdpru wbnoinvd amd_ppin cppc 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 avx512_vp2intersect
flush_llid debug_swap

```

```

L1d cache: 18 MiB (384 instances)
L1i cache: 12 MiB (384 instances)
L2 cache: 384 MiB (384 instances)
L3 cache: 768 MiB (24 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-47,384-431
NUMA node1 CPU(s): 48-95,432-479
NUMA node2 CPU(s): 96-143,480-527
NUMA node3 CPU(s): 144-191,528-575
NUMA node4 CPU(s): 192-239,576-623
NUMA node5 CPU(s): 240-287,624-671
NUMA node6 CPU(s): 288-335,672-719
NUMA node7 CPU(s): 336-383,720-767
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: 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; 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	48K	18M	12	Data	1	64	1	64
L1i	32K	12M	8	Instruction	1	64	1	64
L2	1M	384M	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: 8 nodes (0-7)

(Continued on next page)



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## Platform Notes (Continued)

```

node 0 cpus: 0-47,384-431
node 0 size: 192584 MB
node 0 free: 190241 MB
node 1 cpus: 48-95,432-479
node 1 size: 193497 MB
node 1 free: 192805 MB
node 2 cpus: 96-143,480-527
node 2 size: 193497 MB
node 2 free: 192723 MB
node 3 cpus: 144-191,528-575
node 3 size: 193481 MB
node 3 free: 181956 MB
node 4 cpus: 192-239,576-623
node 4 size: 193497 MB
node 4 free: 192589 MB
node 5 cpus: 240-287,624-671
node 5 size: 193454 MB
node 5 free: 192113 MB
node 6 cpus: 288-335,672-719
node 6 size: 193497 MB
node 6 free: 192804 MB
node 7 cpus: 336-383,720-767
node 7 size: 193441 MB
node 7 free: 192494 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:      1584078168 kB

```

```

-----
10. who -r
    run-level 3 Feb 5 15:57

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-lubuntu8.6)
    Default Target  Status
    multi-user      running

```

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## Platform Notes (Continued)

### 12. Services, from systemctl list-unit-files

```

STATE          UNIT FILES
enabled        apparmor apport blk-availability cloud-config cloud-final cloud-init cloud-init-local
                console-setup e2scrub_reap finalrd getty@ gpu-manager grub-common grub-initrd-fallback
                keyboard-setup lm-sensors lvm2-monitor multipathd networkd-dispatcher
                nvmeofc-boot-connections nvme-autoconnect open-iscsi pollinate secureboot-db setvtrgb
                systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved
                systemd-timesyncd thermald tuned
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled        console-getty debug-shell fio iscsid 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 sudo x11-common

```

### 13. Linux kernel boot-time arguments, from /proc/cmdline

```

BOOT_IMAGE=/boot/vmlinuz-6.8.0-55-generic
root=UUID=12012b0a-8b6b-4db0-98ad-44c145a96bdb
ro

```

### 14. cpupower frequency-info

```

analyzing CPU 503:
  current policy: frequency should be within 1.50 GHz and 2.25 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: 2250MHz

```

### 15. tuned-adm active

Current active profile: latency-performance

### 16. sysctl

```

kernel.numa_balancing          1
kernel.randomize_va_space      0

```

(Continued on next page)



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### Platform Notes (Continued)

```

vm.compaction_proactiveness      20
vm.dirty_background_bytes         0
vm.dirty_background_ratio         3
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 24.04.2 LTS

```

```

-----
20. Disk information
SPEC is set to: /mnt/ramdisk/cpu2026rc2
Filesystem      Type  Size  Used Avail Use% Mounted on
tmpfs            tmpfs 350G  10G  341G   3% /mnt/ramdisk

```

(Continued on next page)



# SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECrate®2026\_int\_base = 1230

PowerEdge R7725 (AMD EPYC 9965 192-Core Processor)

SPECrate®2026\_int\_peak = 1230

CPU2026 License: 6573  
Test Sponsor: Dell Inc.  
Tested by: Dell Inc.

Test Date: Feb-2026  
Hardware Availability: Mar-2025  
Software Availability: Jan-2026

## Platform Notes (Continued)

21. /sys/devices/virtual/dmi/id  
Vendor: Dell Inc.  
Product: PowerEdge R7725  
Product Family: PowerEdge  
Serial: SLR7753

-----  
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:

23x 80AD000080AD HMC94AHBRA277N 64 GB 2 rank 6400  
1x 80AD000080AD HMC94AHBRA480N 64 GB 2 rank 6400

-----  
23. BIOS

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

BIOS Vendor: Dell Inc.  
BIOS Version: 1.5.3  
BIOS Date: 10/29/2025  
BIOS Revision: 1.5

## 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 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

```



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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,-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
-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
```

## 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

(Continued on next page)



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**Tested by:** Dell Inc.

**Test Date:** Feb-2026

**Hardware Availability:** Mar-2025

**Software Availability:** Jan-2026

## Peak Optimization Flags (Continued)

707.ntest\_r: basepeak = yes

727.cppcheck\_r: basepeak = yes

753.ns3\_r: basepeak = yes

Benchmarks using both C and C++:

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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