



# SPEC CPU®2026 Integer Speed Result

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## Lenovo Global Technology

SPECspeed®2026\_int\_base = 7.74

ThinkSystem SR665 V3  
(3.30 GHz,AMD EPYC 9575F)

SPECspeed®2026\_int\_peak = 7.74

CPU2026 License: 9017

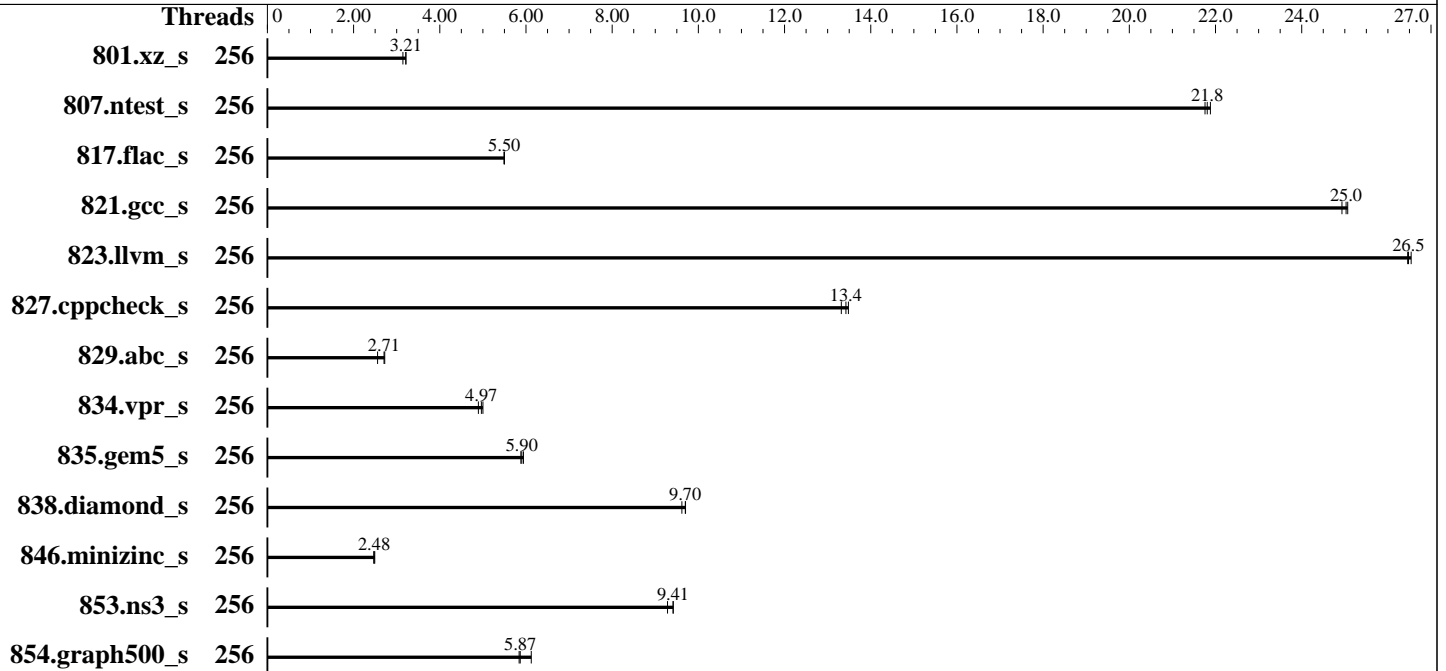
Test Date: Feb-2026

Test Sponsor: Lenovo Global Technology

Hardware Availability: Jul-2025

Tested by: Lenovo Global Technology

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9575F  
 Max MHz: 5000  
 Nominal: 3300  
 Enabled: 128 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: 256 MB I+D on chip per chip,  
 32 MB shared / 8 cores  
 Other: None  
 Memory: 768 GB (24 x 32 GB 2Rx8 PC5-6400B-R)  
 Storage: 1 x 960GB M.2 NVMe SSD  
 Cooling: Air  
 Other: None

### Software

OS: SUSE Linux Enterprise Server 15 SP7  
 Kernel 6.4.0-150700.51-default  
 Compiler: C/C++: Version 5.1.0 of AOCC  
 Fortran: Flang v22  
 Compiler Category: Vendor  
 Firmware: Lenovo BIOS Version KAE141G 5.81 released Jan-2026  
 File System: xfs  
 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						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
801.xz_s	256	<b>184</b>	<b>3.21</b>	184	3.21	188	3.14	256	<b>184</b>	<b>3.21</b>	184	3.21	188	3.14
807.ntest_s	256	52.1	21.9	52.4	21.8	<b>52.3</b>	<b>21.8</b>	256	52.1	21.9	52.4	21.8	<b>52.3</b>	<b>21.8</b>
817.flac_s	256	316	5.49	316	5.50	<b>316</b>	<b>5.50</b>	256	316	5.49	316	5.50	<b>316</b>	<b>5.50</b>
821.gcc_s	256	83.0	24.9	82.6	25.1	<b>82.7</b>	<b>25.0</b>	256	83.0	24.9	82.6	25.1	<b>82.7</b>	<b>25.0</b>
823.llvm_s	256	53.2	26.5	53.3	26.5	<b>53.3</b>	<b>26.5</b>	256	53.2	26.5	53.3	26.5	<b>53.3</b>	<b>26.5</b>
827.cppcheck_s	256	83.0	13.5	84.0	13.3	<b>83.4</b>	<b>13.4</b>	256	83.0	13.5	84.0	13.3	<b>83.4</b>	<b>13.4</b>
829.abc_s	256	305	2.72	<b>307</b>	<b>2.71</b>	325	2.56	256	305	2.72	<b>307</b>	<b>2.71</b>	325	2.56
834.vpr_s	256	<b>192</b>	<b>4.97</b>	191	5.00	195	4.90	256	<b>192</b>	<b>4.97</b>	191	5.00	195	4.90
835.gem5_s	256	192	5.94	194	5.88	<b>193</b>	<b>5.90</b>	256	192	5.94	194	5.88	<b>193</b>	<b>5.90</b>
838.diamond_s	256	104	9.62	103	9.70	<b>103</b>	<b>9.70</b>	256	104	9.62	103	9.70	<b>103</b>	<b>9.70</b>
846.minizinc_s	256	269	2.49	<b>271</b>	<b>2.48</b>	271	2.47	256	269	2.49	<b>271</b>	<b>2.48</b>	271	2.47
853.ns3_s	256	<b>122</b>	<b>9.41</b>	122	9.42	124	9.28	256	<b>122</b>	<b>9.41</b>	122	9.42	124	9.28
854.graph500_s	256	<b>104</b>	<b>5.87</b>	105	5.84	99.8	6.12	256	<b>104</b>	<b>5.87</b>	105	5.84	99.8	6.12

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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 --interleave=all runcpu <etc>

To limit dirty cache to 8% of memory, 'sysctl -w vm.dirty\_ratio=8' run as root.  
To limit swap usage to minimum necessary, 'sysctl -w vm.swappiness=1' run as root.  
To free node-local memory and avoid remote memory usage,

(Continued on next page)



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### Operating System Notes (Continued)

```
'sysctl -w vm.zone_reclaim_mode=1' run as root.
To clear filesystem caches, 'sync; sysctl -w vm.drop_caches=3' run as root.
To disable address space layout randomization (ASLR) to reduce run-to-run
variability, 'sysctl -w kernel.randomize_va_space=0' run as root.
To enable Transparent Hugepages (THP) for all allocations,
'echo always > /sys/kernel/mm/transparent_hugepage/enabled' and
'echo always > /sys/kernel/mm/transparent_hugepage/defrag' run as root.
```

### Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
GOMP_CPU_AFFINITY = "0-255"
LD_LIBRARY_PATH =
"/home/cpu2026-0.902.0-amd_aocc510_znver5_A1/amd_speed_aocc510_flang22_z
nver5_A_lib/lib:/home/cpu2026-0.902.0-amd_aocc510_znver5_A1/amd_speed_ao
cc510_flang22_znver5_A_lib/lib32:"
MALLOCONF = "retain:true"
```

### General Notes

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

### Platform Notes

```
BIOS configuration:
Choose Operating Mode set to Maximum Performance and then set it to Custom Mode
NUMA Nodes per Socket set to NPS4
P-State set to Enabled
```

```
Sysinfo program /home/cpu2026-0.902.0-amd_aocc510_znver5_A1/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on localhost Fri Feb 6 19:16:14 2026
```

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

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### Platform Notes (Continued)

- 6. /proc/cpuinfo
- 7. lscpu
- 8. numactl --hardware
- 9. /proc/meminfo
- 10. who -r
- 11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
- 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 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611) x86_64
```

```
2. w
19:16:14 up 4:06, 1 user, load average: 70.21, 68.64, 51.21
USER      TTY      FROM          LOGIN@      IDLE       JCPU       PCPU       WHAT
```

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

```
4. ulimit -a
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size                (blocks, -f) unlimited
pending signals         (-i) 3093824
max locked memory       (kbytes, -l) 2097152
max memory size         (kbytes, -m) unlimited
open files              (-n) 1024
pipe size                (512 bytes, -p) 8
POSIX message queues    (bytes, -q) 819200
real-time priority      (-r) 0
stack size              (kbytes, -s) unlimited
```

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### Platform Notes (Continued)

```
cpu time          (seconds, -t) unlimited
max user processes (-u) 3093824
virtual memory    (kbytes, -v) unlimited
file locks        (-x) unlimited
```

-----  
5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@notty
/bin/bash ./02.remote_local_SPECcpu_1.02.sh
/bin/bash ./Run032-compliant-amd-speedint_base.sh
python3 ./run_amd_speed_aocc510_flang22_znver5_A1.py
/bin/bash ./amd_speed_aocc510_flang22_znver5_A1.sh
runcpu --config amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3 intspeerd
runcpu --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--nopower --runmode speed --tune base --size test:train:refspeed intspeerd --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.012/templogs/preenv.intspeerd.012.0.log --lognum 012.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-0.902.0-amd_aocc510_znver5_A1
```

-----  
6. /proc/cpuinfo

```
model name      : AMD EPYC 9575F 64-Core Processor
vendor_id       : AuthenticAMD
cpu family      : 26
model           : 2
stepping        : 1
microcode       : 0xb002152
bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srs0
TLB size        : 192 4K pages
cpu cores       : 64
siblings        : 128
2 physical ids (chips)
256 processors (hardware threads)
physical id 0:  core ids 0-63
physical id 1:  core ids 0-63
physical id 0:  apicids 0-127
physical id 1:  apicids 128-255
```

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 2.40.4:

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### Platform Notes (Continued)

```

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):                       256
On-line CPU(s) list:         0-255
Vendor ID:                   AuthenticAMD
Model name:                   AMD EPYC 9575F 64-Core Processor
CPU family:                  26
Model:                       2
Thread(s) per core:          2
Core(s) per socket:          64
Socket(s):                   2
Stepping:                    1
Frequency boost:              enabled
CPU(s) scaling MHz:          100%
CPU max MHz:                  3300.0000
CPU min MHz:                  1500.0000
BogoMIPS:                    6589.96
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
                               oswb ibs skinit wdt tce topoext perfctr_core perfctr_nb bpxt
                               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 debug_swap hv_inuse_wr_allowed srso_user_kernel_no
                               amd_lbr_pmc_freeze
Virtualization:              AMD-V
L1d cache:                   6 MiB (128 instances)
L1i cache:                   4 MiB (128 instances)
L2 cache:                    128 MiB (128 instances)
L3 cache:                    512 MiB (16 instances)
NUMA node(s):                8
NUMA node0 CPU(s):           0-15,128-143

```

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### Platform Notes (Continued)

```

NUMA node1 CPU(s):          16-31,144-159
NUMA node2 CPU(s):          32-47,160-175
NUMA node3 CPU(s):          48-63,176-191
NUMA node4 CPU(s):          64-79,192-207
NUMA node5 CPU(s):          80-95,208-223
NUMA node6 CPU(s):          96-111,224-239
NUMA node7 CPU(s):          112-127,240-255
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; IBPB on VMEXIT only
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	6M	12	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64
L2	1M	128M	16	Unified	2	1024	1	64
L3	32M	512M	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: 0-15,128-143
node 0 size: 96303 MB
node 0 free: 95847 MB
node 1 cpus: 16-31,144-159
node 1 size: 96759 MB
node 1 free: 96506 MB
node 2 cpus: 32-47,160-175
node 2 size: 96759 MB
node 2 free: 96477 MB
node 3 cpus: 48-63,176-191
node 3 size: 96759 MB
node 3 free: 96460 MB
node 4 cpus: 64-79,192-207

```

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### Platform Notes (Continued)

```

node 4 size: 96759 MB
node 4 free: 96325 MB
node 5 cpus: 80-95,208-223
node 5 size: 96759 MB
node 5 free: 96518 MB
node 6 cpus: 96-111,224-239
node 6 size: 96759 MB
node 6 free: 96313 MB
node 7 cpus: 112-127,240-255
node 7 size: 96623 MB
node 7 free: 96239 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:          792046972 kB

```

```

-----
10. who -r
run-level 3 Feb 6 15:10

```

```

-----
11. Systemd service manager version: systemd 254 (254.24+suse.148.g83b9060b6e)
Default Target Status
multi-user      running

```

```

-----
12. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron getty@ irqbalance issue-generator
kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvme-fc-autoconnect postfix
purge-kernels rollback rsyslog smartd sshd systemd-pstore tuned wicked wickedd-auto4
wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime systemd-remount-fs
disabled autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait
chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info
firewalld fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievd issue-add-ssh-keys
kexec-load lunmask man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd

```

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### Platform Notes (Continued)

```

serial-getty@ smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures
systemd-confext systemd-network-generator systemd-sysexit systemd-time-wait-sync
systemd-timesyncd
generated ntp_sync
indirect systemd-userdbd wickedd

```

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

```

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.51-default
root=UUID=548b98ec-c242-4959-8c74-ed91816d4845
splash=silent
mitigations=auto
quiet
security=apparmor

```

-----  
14. cpupower frequency-info

```

analyzing CPU 65:
  current policy: frequency should be within 1.50 GHz and 3.30 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.

boost state support:
  Supported: yes
  Active: yes

```

-----  
15. tuned-adm active

Current active profile: balanced

-----  
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

```

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### Platform Notes (Continued)

```
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 SUSE Linux Enterprise Server 15 SP7
```

```
-----
20. Disk information
SPEC is set to: /home/cpu2026-0.902.0-amd_aocc510_znver5_A1
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p3  xfs   893G  117G  776G  14% /
```

```
-----
21. /sys/devices/virtual/dmi/id
Vendor:          Lenovo
Product:         ThinkSystem SR665 V3 MB,Genoa,Kauai,DDR5,Kauai,2U
Product Family: ThinkSystem
Serial:          1234567890
```

```
-----
22. dmidecode
Additional information from dmidecode 3.6 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:
  9x SK Hynix HMC88AHBRA471N 32 GB 2 rank 6400
```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

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## Lenovo Global Technology

SPECspeed®2026\_int\_base = 7.74

ThinkSystem SR665 V3  
(3.30 GHz,AMD EPYC 9575F)

SPECspeed®2026\_int\_peak = 7.74

**CPU2026 License:** 9017  
**Test Sponsor:** Lenovo Global Technology  
**Tested by:** Lenovo Global Technology

**Test Date:** Feb-2026  
**Hardware Availability:** Jul-2025  
**Software Availability:** Jan-2026

### Platform Notes (Continued)

1x SK Hynix HMC88AHBRA472N 32 GB 2 rank 6400  
6x SK Hynix HMC88AHBRA477N 32 GB 2 rank 6400  
8x SK Hynix HMC88AHBRA478N 32 GB 2 rank 6400

-----  
23. BIOS

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

BIOS Vendor: Lenovo  
BIOS Version: KAE141G-5.81  
BIOS Date: 01/22/2026  
BIOS Revision: 5.81  
Firmware Revision: 56.20

### Compiler Version Notes

=====  
C | 854.graph500\_s(base)  
-----

AMD clang version 17.0.6 (CLANG: AOCC\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin  
-----

=====  
C++ | 807.ntest\_s(base) 827.cppcheck\_s(base) 853.ns3\_s(base)  
-----

AMD clang version 17.0.6 (CLANG: AOCC\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin  
-----

=====  
C++, C | 801.xz\_s(base) 817.flac\_s(base) 821.gcc\_s(base) 823.llvm\_s(base)  
| 829.abc\_s(base) 834.vpr\_s(base) 835.gem5\_s(base) 838.diamond\_s(base)  
846.minizinc\_s(base)

AMD clang version 17.0.6 (CLANG: AOCC\_5.1.0-Build#1994 2025\_12\_23)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /opt/AMD/aocc/aocc-compiler-5.1.0/bin  
-----



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## Base Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

## Base Portability Flags

```

801.xz_s: -DSPEC_LP64
807.ntest_s: -DSPEC_LP64
817.flac_s: -DSPEC_LP64
821.gcc_s: -DSPEC_LP64
823.llvm_s: -DSPEC_LP64
827.cppcheck_s: -DSPEC_LP64
829.abc_s: -DSPEC_LP64
834.vpr_s: -fno-finite-math-only -DSPEC_LP64
835.gem5_s: -fno-finite-math-only -DSPEC_LP64
838.diamond_s: -DSPEC_LP64
846.minizinc_s: -DSPEC_LP64
853.ns3_s: -fno-finite-math-only -DSPEC_LP64
854.graph500_s: -DSPEC_LP64

```

## Base Optimization Flags

C benchmarks:

```

-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-allow-multiple-definition -Wl,-mllvm -Wl,-extra-inliner -O3 -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=200000

```

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**Hardware Availability:** Jul-2025

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## Base Optimization Flags (Continued)

C++ benchmarks (continued):

```
-mllvm -reduce-array-computations=3 -fopenmp -DSPEC_OPENMP
-fvirtual-function-elimination -fvisibility=hidden -lamdalloc
-lamdlibm -fopenmp=libomp -lomp
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -O3 -flto -march=znver5
-fveclib=AMDLIBM -ffast-math -zopt -fremap-arrays -fstrip-mining
-fstruct-layout=7 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=50
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-fopenmp -DSPEC_OPENMP -fvirtual-function-elimination
-fvisibility=hidden -lamdalloc -lamdlibm -fopenmp=libomp -lomp
```

## Base Other Flags

C benchmarks:

```
-Wno-return-type
```

Benchmarks using both C and C++:

```
-Wno-return-type
```

## Peak Optimization Flags

C benchmarks:

```
854.graph500_s: basepeak = yes
```

C++ benchmarks:

```
807.ntest_s: basepeak = yes
```

```
827.cppcheck_s: basepeak = yes
```

```
853.ns3_s: basepeak = yes
```

Benchmarks using both C and C++:

```
801.xz_s: basepeak = yes
```

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## Peak Optimization Flags (Continued)

817.flac\_s: basepeak = yes

821.gcc\_s: basepeak = yes

823.llvm\_s: basepeak = yes

829.abc\_s: basepeak = yes

834.vpr\_s: basepeak = yes

835.gem5\_s: basepeak = yes

838.diamond\_s: basepeak = yes

846.minizinc\_s: basepeak = yes

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu-Flags-V1.2-Turin-M.html>

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

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu-Flags-V1.2-Turin-M.xml>

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

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