



# SPEC CPU®2026 Integer Speed Result

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## Lenovo Global Technology ThinkSystem SR655 V3 (2.60 GHz, AMD EPYC 9655)

SPECSpeed®2026_int_base =	6.35
SPECSpeed®2026_int_energy_base =	3.17
SPECSpeed®2026_int_peak =	6.35
SPECSpeed®2026_int_energy_peak =	3.17

CPU2026 License: 9017

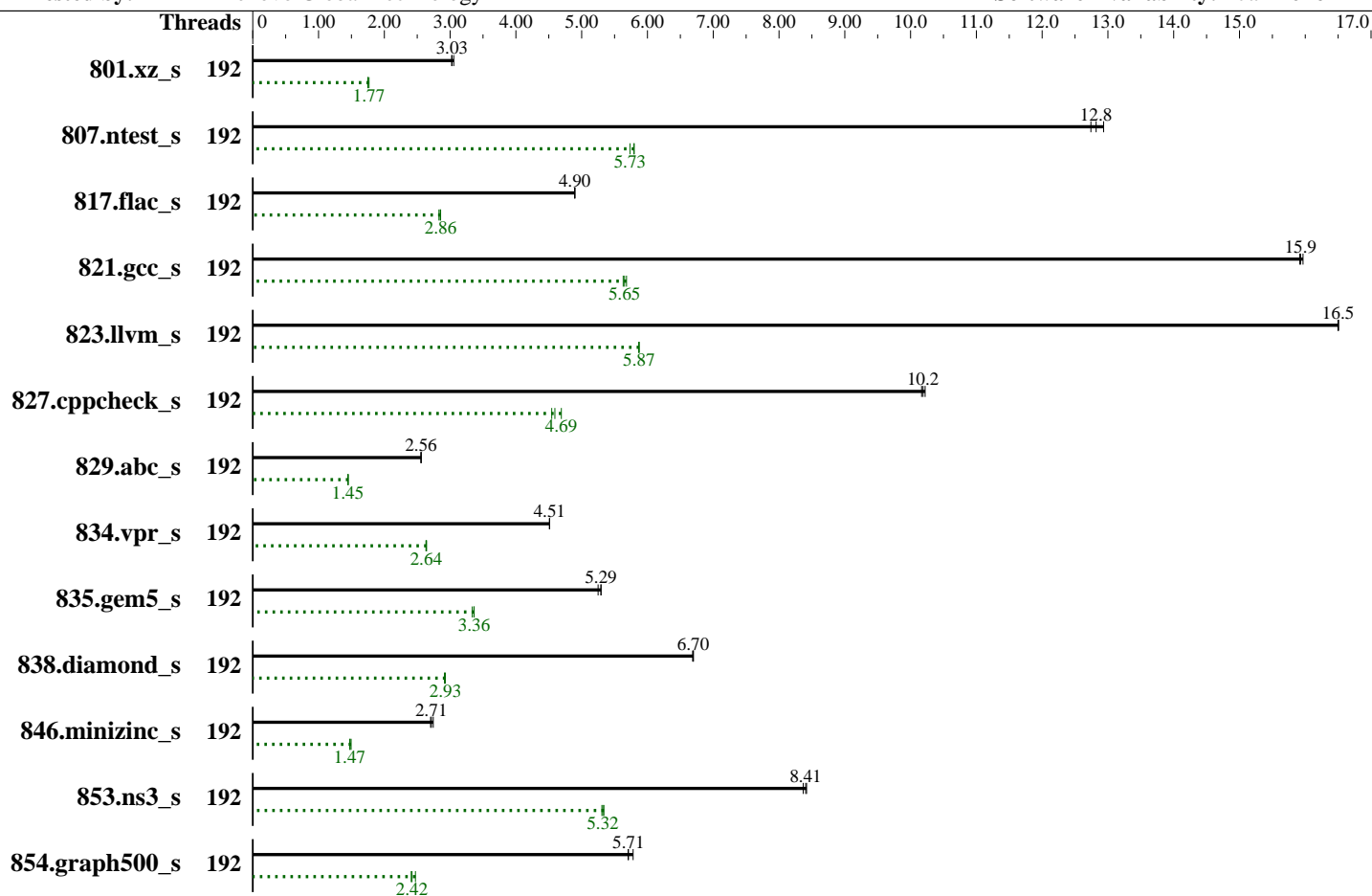
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



### Hardware

CPU Name: AMD EPYC 9655  
 Max MHz: 4500  
 Nominal: 2600  
 Enabled: 96 cores, 1 chip, 2 threads/core  
 Orderable: 1 chip  
 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 / 8 cores  
 Other: None  
 Memory: 384 GB (12 x 32 GB 2Rx8 PC5-6400B-R, running at 4800)  
 Storage: 1 x 480 GB SATA SSD  
 Cooling: Air

(Continued on next page)

### Software

OS: SUSE Linux Enterprise Server 15 SP6  
 Kernel 6.4.0-150600.21-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 balance power and performance



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### Hardware (Continued)

Other: None

### Power

Max. Power (W): 638.03  
Idle Power (W): 90.77  
Min. Temperature (C): 21.00  
Elevation (m): 43  
Line Standard: 220 V / 50 Hz / 1 phase / 3 wires  
Provisioning: Line-powered

### Power Settings

Management FW: Version 56.20 of KAX3670  
Memory Mode: Normal

### Power-Relevant Hardware

Power Supply: 1 x 1100 W (non-redundant)  
Details: ThinkSystem 1100W 230V Titanium Power Supply 4P57A72666  
Backplane: 8 x 2.5-inch HDD back plane  
Other Storage: None  
Storage Model #s: 4XB7A17107  
NICs Installed: 1 x ThinkSystem Ethernet 4-port Adaptor @ 1 Gb  
NICs Enabled (FW/OS): 4 / 1  
NICs Connected/Speed: 1 @ 1 Gb  
Other HW Model #s: 6 x Performance fans

### Power Analyzer

Power Analyzer: WIN:9888  
Hardware Vendor: YOKOGAWA, Inc.  
Model: YokogawaWT310E  
Serial Number: C3UD17025E  
Input Connection: Default  
Metrology Institute: CNAS  
Calibration By: CEPREI Calibration and Testing Centre  
Calibration Label: 1GA25011731-0006  
Calibration Date: 16-Sep-2025  
PTDaemon® Version: 1.11.1 (462c978e; 2024-09-07)  
Setup Description: Connected to PSU1  
Current Ranges Used: 2.5A  
Voltage Range Used: 300V

### Temperature Meter

Temperature Meter: WIN:9889  
Hardware Vendor: Digi International, Inc.  
Model: DigiWATCHPORT\_H  
Serial Number: W63390099  
Input Connection: USB  
PTDaemon Version: 1.11.1 (462c978e; 2024-09-07)  
Setup Description: 50 mm in front of SUT main intake

## Base Results Table

Benchmark	Threads	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
801.xz_s	192	<b>195</b>	<b>3.03</b>	<b>46.9</b>	<b>1.77</b>	<b>240</b>	<b>556</b>	195	3.02	47.4	1.75	242	566	193	3.06	47.3	1.75	245	570
807.ntest_s	192	89.5	12.7	40.0	5.80	447	485	88.1	12.9	40.0	5.80	454	511	<b>88.9</b>	<b>12.8</b>	<b>40.5</b>	<b>5.73</b>	<b>455</b>	<b>504</b>
817.flac_s	192	355	4.90	65.2	2.85	184	415	355	4.89	65.7	2.83	185	418	<b>355</b>	<b>4.90</b>	<b>65.1</b>	<b>2.86</b>	<b>183</b>	<b>415</b>
821.gcc_s	192	<b>130</b>	<b>15.9</b>	<b>75.2</b>	<b>5.65</b>	<b>579</b>	<b>604</b>	130	15.9	75.5	5.63	581	605	130	16.0	74.8	5.68	577	606
823.llvm_s	192	85.5	16.5	49.9	5.87	583	615	85.5	16.5	49.9	5.87	583	624	<b>85.5</b>	<b>16.5</b>	<b>49.8</b>	<b>5.87</b>	<b>583</b>	<b>613</b>
827.cppcheck_s	192	109	10.2	53.5	4.54	488	637	<b>110</b>	<b>10.2</b>	<b>51.8</b>	<b>4.69</b>	<b>472</b>	<b>635</b>	110	10.2	52.9	4.59	481	638
829.abc_s	192	<b>325</b>	<b>2.56</b>	<b>48.2</b>	<b>1.45</b>	<b>149</b>	<b>164</b>	325	2.56	48.3	1.44	148	165	325	2.56	48.0	1.45	148	163
834.vpr_s	192	<b>211</b>	<b>4.51</b>	<b>30.4</b>	<b>2.64</b>	<b>144</b>	<b>156</b>	212	4.51	30.4	2.63	144	156	211	4.51	30.3	2.64	143	155

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.



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835.gem5_s	192	<b>215</b>	<b>5.29</b>	<b>28.7</b>	<b>3.36</b>	<b>134</b>	<b>136</b>	217	5.25	29.0	3.34	134	136	215	5.29	28.8	3.36	134	136
838.diamond_s	192	150	6.69	68.5	2.92	458	511	<b>149</b>	<b>6.70</b>	<b>68.4</b>	<b>2.93</b>	<b>457</b>	<b>511</b>	149	6.70	68.7	2.91	460	511
846.minizinc_s	192	<b>247</b>	<b>2.71</b>	<b>42.6</b>	<b>1.47</b>	<b>172</b>	<b>191</b>	244	2.74	41.9	1.50	172	190	248	2.70	42.3	1.48	171	189
853.ns3_s	192	138	8.37	18.7	5.31	136	137	<b>137</b>	<b>8.41</b>	<b>18.6</b>	<b>5.32</b>	<b>136</b>	<b>137</b>	137	8.42	18.6	5.34	136	137
854.graph500_s	192	106	5.78	52.5	2.47	497	633	<b>107</b>	<b>5.71</b>	<b>53.6</b>	<b>2.42</b>	<b>501</b>	<b>632</b>	107	5.71	53.9	2.41	503	632

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### Peak Results Table

Benchmark	Threads	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
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SPECSpeed®2026\_int\_peak = 6.35

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### 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.



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## 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,  
'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 = "0-191"  
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:"  
MALLOC\_CONF = "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 Custom Mode  
Power Profile Selection set to Balanced Memory Performance Mode  
NUMA Nodes per Socket set to NPS4  
Memory Speed set to Minimum

Sysinfo program /home/cpu2026-0.902.0-amd\_aocc510\_znver5\_A1/bin/sysinfo  
Rev: 069f95da7e7f5d81b2ce48a82150e54f

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## Platform Notes (Continued)

running on localhost Sun Feb 8 01:17:17 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
- 6. /proc/cpuinfo
- 7. lscpu
- 8. numactl --hardware
- 9. /proc/meminfo
- 10. who -r
- 11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
- 12. Services, from systemctl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline
- 14. cpupower frequency-info
- 15. sysctl
- 16. /sys/kernel/mm/transparent\_hugepage
- 17. /sys/kernel/mm/transparent\_hugepage/khugepaged
- 18. OS release
- 19. Disk information
- 20. /sys/devices/virtual/dmi/id
- 21. dmidecode
- 22. BIOS

```
1. uname -srvm
Linux 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86_64
```

```
2. w
01:17:17 up 9:30, 1 user, load average: 14.00, 41.97, 41.52
USER      TTY      FROM          LOGIN@      IDLE       JCPU      PCPU      WHAT
```

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

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## Platform Notes (Continued)

```

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) 1545783
   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
   cpu time                 (seconds, -t) unlimited
   max user processes      (-u) 1545783
   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 --power --config amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
     intspeer
   runcpu --power --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
     --runmode speed --tune base --size test:train:refspeed intspeer --nopreenv --note-preenv --logfile
     $SPEC/tmp/CPU2026.021/templogs/preenv.intspeer.021.0.log --lognum 021.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /home/cpu2026-0.902.0-amd_aocc510_znver5_A1

```

```

-----
6. /proc/cpuinfo
   model name      : AMD EPYC 9655 96-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

```

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### Platform Notes (Continued)

```

TLB size      : 192 4K pages
cpu cores     : 96
siblings      : 192
1 physical ids (chips)
192 processors (hardware threads)
physical id 0: core ids 0-95
physical id 0: apicids 0-191

```

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):                 192
On-line CPU(s) list:   0-191
Vendor ID:              AuthenticAMD
BIOS Vendor ID:        Advanced Micro Devices, Inc.
Model name:             AMD EPYC 9655 96-Core Processor
BIOS Model name:       AMD EPYC 9655 96-Core Processor          Unknown CPU @ 2.6GHz
BIOS CPU family:       107
CPU family:             26
Model:                  2
Thread(s) per core:    2
Core(s) per socket:    96
Socket(s):              1
Stepping:               1
Frequency boost:        enabled
CPU(s) scaling MHz:    34%
CPU max MHz:           4509.3750
CPU min MHz:           1500.0000
BogoMIPS:              5191.94

```

```

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 svm 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 tsc_adjust bmi1 avx2

```

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### Platform Notes (Continued)

```
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 arat npt lbrv svm_lock
nrip_save tsc_scale vmcb_clean flushbyasid decodeassists pausefilter
pftthreshold 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_llid debug_swap
```

```
Virtualization: AMD-V
L1d cache: 4.5 MiB (96 instances)
L1i cache: 3 MiB (96 instances)
L2 cache: 96 MiB (96 instances)
L3 cache: 384 MiB (12 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-23,96-119
NUMA node1 CPU(s): 24-47,120-143
NUMA node2 CPU(s): 48-71,144-167
NUMA node3 CPU(s): 72-95,168-191
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/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 48K 4.5M 12 Data 1 64 1 64
L1i 32K 3M 8 Instruction 1 64 1 64
L2 1M 96M 16 Unified 2 1024 1 64
L3 32M 384M 16 Unified 3 32768 1 64
```

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**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)

8. numactl --hardware

NOTE: a numactl 'node' might or might not correspond to a physical chip.

```
available: 4 nodes (0-3)
node 0 cpus: 0-23,96-119
node 0 size: 96338 MB
node 0 free: 95690 MB
node 1 cpus: 24-47,120-143
node 1 size: 96755 MB
node 1 free: 96452 MB
node 2 cpus: 48-71,144-167
node 2 size: 96716 MB
node 2 free: 96320 MB
node 3 cpus: 72-95,168-191
node 3 size: 96660 MB
node 3 free: 96319 MB
node distances:
node  0  1  2  3
  0:  10  12  12  12
  1:  12  10  12  12
  2:  12  12  10  12
  3:  12  12  12  10
```

9. /proc/meminfo

```
MemTotal: 395747500 kB
```

10. who -r

```
run-level 3 Feb 7 15:47
```

11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)

```
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 postfix purge-kernels rollback rsyslog smartd sshd
                systemd-pstore 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
                firewallld fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievd issue-add-ssh-keys
```

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## Platform Notes (Continued)

```
kexec-load lunmask man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd
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-6.4.0-150600.21-default  
root=UUID=d6bdf3a8-2c29-4379-81b5-741d24d52760  
splash=silent  
quiet  
security=apparmor  
mitigations=auto

-----  
14. cpupower frequency-info  
analyzing CPU 139:  
current policy: frequency should be within 1.50 GHz and 2.60 GHz.  
The governor "ondemand" may decide which speed to use  
within this range.  
boost state support:  
Supported: yes  
Active: yes

-----  
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  
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

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## Platform Notes (Continued)

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 SUSE Linux Enterprise Server 15 SP6

-----  
19. Disk information  
SPEC is set to: /home/cpu2026-0.902.0-amd\_aocc510\_znver5\_A1  
Filesystem Type Size Used Avail Use% Mounted on  
/dev/sda3 xfs 443G 115G 328G 26% /

-----  
20. /sys/devices/virtual/dmi/id  
Vendor: Lenovo  
Product: ThinkSystem SR655V3  
Product Family: ThinkSystem  
Serial: 1234567890

-----  
21. dmidecode  
Additional information from dmidecode 3.4 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:

(Continued on next page)



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## Platform Notes (Continued)

12x Samsung M321R4GA3PB1-CCPPC 32 GB 2 rank 6400, configured at 4800

### 22. 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

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## Base Optimization Flags (Continued)

C++ benchmarks (continued):

```
-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
-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
```

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## Peak Optimization Flags (Continued)

853.ns3\_s: basepeak = yes

Benchmarks using both C and C++:

801.xz\_s: basepeak = yes

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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