



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

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

SPECspeed®2026_int_base =	7.23
SPECspeed®2026_int_energy_base =	2.16
SPECspeed®2026_int_peak =	7.23
SPECspeed®2026_int_energy_peak =	2.16

CPU2026 License: 9017

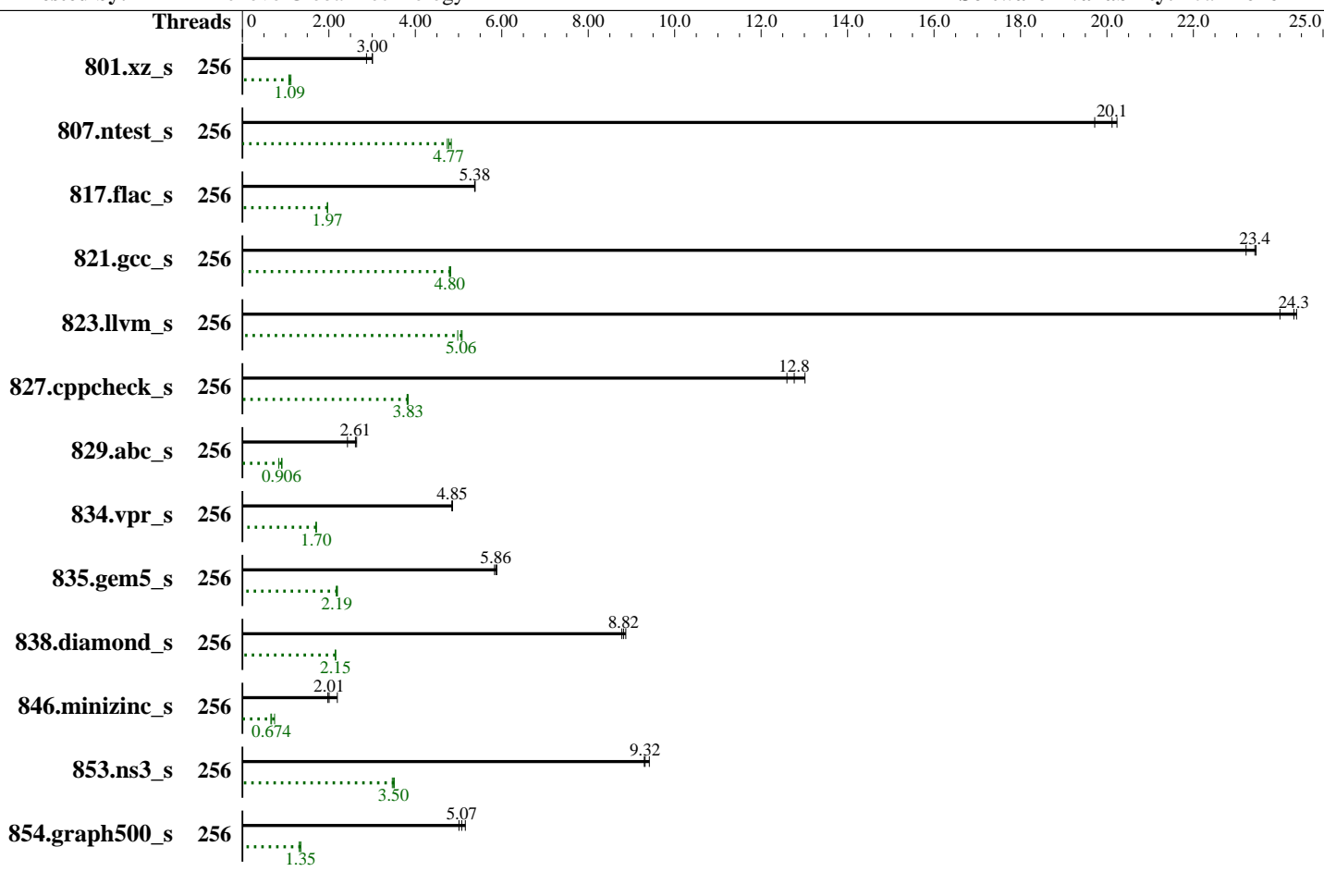
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



Hardware

CPU Name: AMD EPYC 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, running at 4800)
 Storage: 1 x 480 GB SATA SSD
 Cooling: Air

(Continued on next page)

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 balance power and performance



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Hardware (Continued)

Other: None

Power

Max. Power (W): 1146.3
Idle Power (W): 131.15
Min. Temperature (C): 20.88
Elevation (m): 43
Line Standard: 220 V / 50 Hz / 1 phase / 3 wires
Provisioning: Line-powered

Power Settings

Management FW: Version 56.2 of KAX367O
Memory Mode: Normal

Power-Relevant Hardware

Power Supply: 1 x 1800 W (non-redundant)
Details: ThinkSystem 1800W 230V Platinum Hot-Swap Gen2 Power Supply v2 4P57A78362
Backplane: 8 x 2.5-inch HDD back plane
Other Storage: None
Storage Model #: 4XB7A82259
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 #: 6 x Performance fans

Power Analyzer

Power Analyzer: WIN:9888
Hardware Vendor: YOKOGAWA, Inc.
Model: YokogawaWT310E
Serial Number: C3UD17023E
Input Connection: Default
Metrology Institute: CNAS
Calibration By: CEPREI Calibration and Testing Centre
Calibration Label: 1GA25011731-0005
Calibration Date: 15-Sep-2025
PTDaemon® Version: 1.11.1 (462c978e; 2024-09-07)
Setup Description: Connected to PSU1
Current Ranges Used: 5A
Voltage Range Used: 300V

Temperature Meter

Temperature Meter: WIN:9889
Hardware Vendor: Digi International, Inc.
Model: DigiWATCHPORT_H
Serial Number: W63181846
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	256	196	3.01	73.8	1.12	376	985	197	3.00	75.8	1.09	385	1000	206	2.87	77.0	1.08	374	1000
807.ntest_s	256	56.3	20.2	48.0	4.83	852	938	56.7	20.1	48.6	4.77	858	955	57.8	19.7	48.9	4.74	847	953
817.flac_s	256	323	5.37	94.3	1.97	292	563	323	5.38	94.5	1.97	293	565	323	5.38	94.5	1.97	293	566
821.gcc_s	256	88.3	23.5	88.2	4.82	1000	1040	89.2	23.2	88.8	4.79	996	1040	88.4	23.4	88.7	4.80	1000	1040
823.llvm_s	256	57.9	24.4	57.6	5.08	996	1050	58.0	24.3	57.9	5.06	997	1050	58.8	24.0	58.8	4.98	1000	1060
827.cppcheck_s	256	87.7	12.8	63.4	3.83	723	1060	88.8	12.6	63.8	3.81	718	1070	86.0	13.0	63.7	3.81	741	1070
829.abc_s	256	342	2.43	82.8	0.842	242	261	315	2.64	76.2	0.916	242	260	318	2.61	77.0	0.906	242	260

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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834.vpr_s	256	197	4.85	47.0	1.71	239	249	196	4.86	46.9	1.71	239	249	197	4.85	47.0	1.70	239	250
835.gem5_s	256	194	5.86	44.2	2.19	228	233	194	5.89	44.0	2.20	227	231	195	5.83	44.6	2.17	228	232
838.diamond_s	256	114	8.78	93.2	2.15	817	978	113	8.87	92.9	2.16	823	976	114	8.82	92.9	2.15	818	983
846.minizinc_s	256	305	2.20	84.3	0.744	276	303	334	2.01	93.1	0.674	279	296	339	1.98	95.4	0.658	281	300
853.ns3_s	256	124	9.32	28.4	3.50	229	231	124	9.30	28.6	3.47	231	234	122	9.41	28.2	3.51	230	234
854.graph500_s	256	120	5.07	96.5	1.35	801	1140	122	5.01	98.8	1.31	810	1140	118	5.16	96.2	1.35	812	1150

SPECSpeed®2026_int_base = 7.23

SPECSpeed®2026_int_energy_base = 2.16

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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
801.xz_s	256	196	3.01	73.8	1.12	376	985	197	3.00	75.8	1.09	385	1000	206	2.87	77.0	1.08	374	1000
807.ntest_s	256	56.3	20.2	48.0	4.83	852	938	56.7	20.1	48.6	4.77	858	955	57.8	19.7	48.9	4.74	847	953
817.flac_s	256	323	5.37	94.3	1.97	292	563	323	5.38	94.5	1.97	293	565	323	5.38	94.5	1.97	293	566
821.gcc_s	256	88.3	23.5	88.2	4.82	1000	1040	89.2	23.2	88.8	4.79	996	1040	88.4	23.4	88.7	4.80	1000	1040
823.llvm_s	256	57.9	24.4	57.6	5.08	996	1050	58.0	24.3	57.9	5.06	997	1050	58.8	24.0	58.8	4.98	1000	1060
827.cppcheck_s	256	87.7	12.8	63.4	3.83	723	1060	88.8	12.6	63.8	3.81	718	1070	86.0	13.0	63.7	3.81	741	1070
829.abc_s	256	342	2.43	82.8	0.842	242	261	315	2.64	76.2	0.916	242	260	318	2.61	77.0	0.906	242	260
834.vpr_s	256	197	4.85	47.0	1.71	239	249	196	4.86	46.9	1.71	239	249	197	4.85	47.0	1.70	239	250
835.gem5_s	256	194	5.86	44.2	2.19	228	233	194	5.89	44.0	2.20	227	231	195	5.83	44.6	2.17	228	232
838.diamond_s	256	114	8.78	93.2	2.15	817	978	113	8.87	92.9	2.16	823	976	114	8.82	92.9	2.15	818	983
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853.ns3_s	256	124	9.32	28.4	3.50	229	231	124	9.30	28.6	3.47	231	234	122	9.41	28.2	3.51	230	234
854.graph500_s	256	120	5.07	96.5	1.35	801	1140	122	5.01	98.8	1.31	810	1140	118	5.16	96.2	1.35	812	1150

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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 = "0-255"
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:"
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 Sat Feb 7 16:14:32 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 (254.24+suse.148.g83b9060b6e)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. 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 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611) x86_64

2. w
16:14:32 up 3 min, 1 user, load average: 0.15, 0.32, 0.16
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) 3093826
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) 3093826
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
intspeed
runcpu --power --configfile amd_speed_aocc510_flang22_znver5_A1.cfg --tune base --reportable --iterations 3
--runmode speed --tune base --size test:train:refspeed intspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.005/templogs/preenv.intspeed.005.0.log --lognum 005.0 --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 srso
```

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Platform Notes (Continued)

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:

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: 46%
CPU max MHz: 3300.0000
CPU min MHz: 1500.0000
BogoMIPS: 6589.93

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
rdtsclp lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid
extd_apicid aperfmperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid
sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm
cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch
osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpext
perfctr_llc mwaitx cpb cat_l3 cdp_l3 hw_pstate ssbd mba perfmon_v2
ibrs ibpb stibp ibrs_enhanced vmmcall fsgsbase tsc_adjust bmi1 avx2
smep bmi2 erms invpcid cqm rdt_a avx512f avx512dq rdseed adx smap

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Platform Notes (Continued)

```
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 nrrip_save tsc_scale vmcb_clean flushbyasid decodeassists
pausefilter pfthreshold avic v_vmsave_vmload vgif x2avic v_spec_ctrl
vnni 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_lld 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
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/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	6M	12	Data	1	64	1	64
L1i	32K	4M	8	Instruction	1	64	1	64

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Platform Notes (Continued)

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: 96342 MB
node 0 free: 95918 MB
node 1 cpus: 16-31,144-159
node 1 size: 96759 MB
node 1 free: 96396 MB
node 2 cpus: 32-47,160-175
node 2 size: 96759 MB
node 2 free: 96338 MB
node 3 cpus: 48-63,176-191
node 3 size: 96759 MB
node 3 free: 96379 MB
node 4 cpus: 64-79,192-207
node 4 size: 96759 MB
node 4 free: 96381 MB
node 5 cpus: 80-95,208-223
node 5 size: 96759 MB
node 5 free: 96415 MB
node 6 cpus: 96-111,224-239
node 6 size: 96720 MB
node 6 free: 96261 MB
node 7 cpus: 112-127,240-255
node 7 size: 96623 MB
node 7 free: 96297 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: 792046988 kB

(Continued on next page)



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SPECSpeed®2026_int_energy_peak =	2.16

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Software Availability: Jan-2026

Platform Notes (Continued)

 10. who -r
 run-level 3 Feb 7 16:11

 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 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 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 serial-getty@ smartd_generate_opts snmpd snmptrapd systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysext 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=6b4a02b3-a7c2-4def-af3d-b12e11842422
 splash=silent
 mitigations=auto
 quiet
 security=apparmor

 14. cpupower frequency-info
 analyzing CPU 52:
 current policy: frequency should be within 1.50 GHz and 3.30 GHz.
 The governor "ondemand" may decide which speed to use
 within this range.
 boost state support:
 Supported: yes
 Active: yes

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Platform Notes (Continued)

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
vm.watermark_scale_factor     10
vm.zone_reclaim_mode          1
```

16. /sys/kernel/mm/transparent_hugepage

```
defrag          [always] 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 SP7
```

(Continued on next page)



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Platform Notes (Continued)

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 444G 134G 310G 31% /

20. /sys/devices/virtual/dmi/id

Vendor: Lenovo
Product: ThinkSystem SR665 V3
Product Family: ThinkSystem
Serial: 1234567890

21. 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:

10x Samsung M321R4GA3PB2-CCPEC 32 GB 2 rank 6400, configured at 4800
5x Samsung M321R4GA3PB2-CCPKC 32 GB 2 rank 6400, configured at 4800
9x Samsung M321R4GA3PB2-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

(Continued on next page)



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Test Date: Feb-2026
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Compiler Version Notes (Continued)

=====
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

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

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Base Portability Flags (Continued)

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
-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



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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

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



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<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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