



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Lenovo Global Technology

ThinkSystem SR950 V3
(1.90 GHz, Intel Xeon Platinum 8490H)

SPECspeed®2026_int_base = 7.54

SPECspeed®2026_int_peak = Not Run

CPU2026 License: 9017

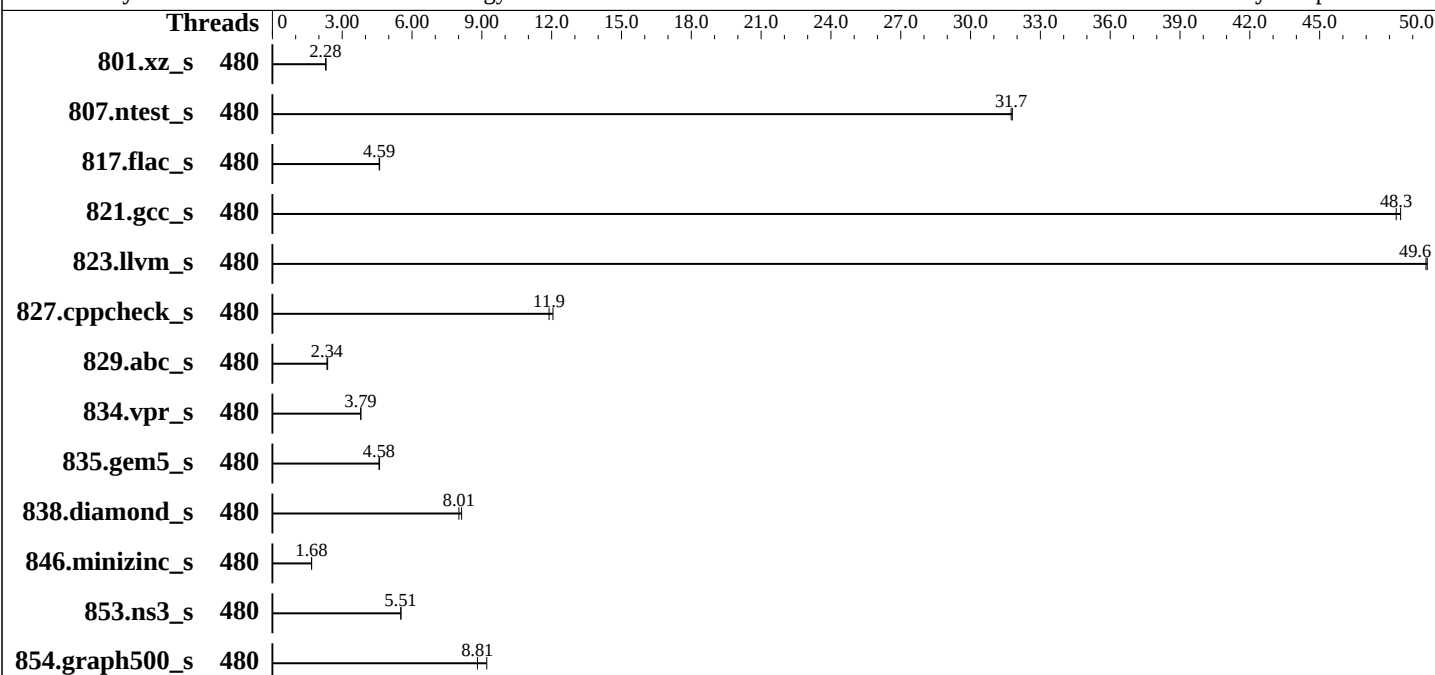
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Jun-2026

Hardware Availability: Oct-2023

Software Availability: Apr-2026



Hardware

CPU Name: Intel Xeon Platinum 8490H
Max MHz: 3500
Nominal: 1900
Enabled: 480 cores, 8 chips
Orderable: 8 chips
Cache L1: 32 KB I + 48 KB D on chip per core
L2: 2 MB I+D on chip per core
L3: 112.5 MB I+D on chip per chip
Other: None
Memory: 4 TB (64 x 64 GB 2Rx4 PC5-4800B-R)
Storage: 1 x 960 GB 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 2026.0 of Intel oneAPI DPC++/C++ Compiler for Linux;
Fortran: Version 2026.0 of Intel Fortran Compiler for Linux
Compiler Category: Vendor
Firmware: Lenovo BIOS Version EBE123G 7.50 released May-2026
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other: jemalloc memory allocator v5.3
Power Management: BIOS 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	480	256	2.31	<u>259</u>	<u>2.28</u>									
807.ntest_s	480	35.9	31.8	<u>35.9</u>	<u>31.7</u>									
817.flac_s	480	<u>379</u>	<u>4.59</u>	377	4.61									
821.gcc_s	480	42.7	48.5	<u>42.9</u>	<u>48.3</u>									
823.llvm_s	480	28.4	49.6	<u>28.5</u>	<u>49.6</u>									
827.cppcheck_s	480	92.8	12.1	<u>94.1</u>	<u>11.9</u>									
829.abc_s	480	350	2.37	<u>354</u>	<u>2.34</u>									
834.vpr_s	480	<u>252</u>	<u>3.79</u>	251	3.80									
835.gem5_s	480	<u>249</u>	<u>4.58</u>	247	4.60									
838.diamond_s	480	<u>125</u>	<u>8.01</u>	123	8.13									
846.minizinc_s	480	398	1.68	<u>398</u>	<u>1.68</u>									
853.ns3_s	480	209	5.53	<u>209</u>	<u>5.51</u>									
854.graph500_s	480	<u>69.4</u>	<u>8.81</u>	66.3	9.21									

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

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:

KMP_AFFINITY = "granularity=fine,scatter"

LD_LIBRARY_PATH = "/home/cpu2026-1.0.1-ic2026.0/lib"

MALLOC_CONF = "retain:true"

OMP_STACKSIZE = "192M"

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using CentOS Stream 9.

Transparent Huge Pages enabled by default

Prior to runcpu invocation

Filesystem page cache synced and cleared with:

sync; echo 3> /proc/sys/vm/drop_caches

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) is mitigated in the system as tested and documented.

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General Notes (Continued)

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

jemalloc, a general purpose malloc implementation

built with the CentOS Stream 9, and the system compiler gcc 11.5.0

sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

Platform Notes

BIOS configuration:

Choose Operating Mode set to Maximum Performance and then set it to Custom Mode

C-States set to Legacy

SNC set to SNC2

Misc set to Option4

Hyper-Threading set to Disabled

Page Policy set to Adaptive

Sysinfo program /home/cpu2026-1.0.1-ic2026.0/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Mon Jun 22 19:48:53 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

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Platform Notes (Continued)

22. BIOS

1. uname -srvnm

```
Linux 6.4.0-150700.51-default #1 SMP PREEMPT_DYNAMIC Wed Apr 30 21:35:43 UTC 2025 (6930611) x86_64
```

2. w

```
19:48:53 up 1:37, 1 user, load average: 93.81, 67.83, 44.57
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) 16511825
max locked memory       (kbytes, -l) 8192
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) 16511825
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited
```

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=43
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
sh Run552-compliant-ic2026.0-lin-sapphirerapids-speedint-base-smt-off-20260429.sh
runcpu --nobuild --reportable --action validate --define default-platform-flags -c
ic2026.0-sapphirerapids-cpu2026-1.0.1-speed-20260429.cfg --threads 480 --define cores=480 --tune base -o
all --define intspeedaffinity --define drop_caches intspeed
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
```

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Platform Notes (Continued)

```
ic2026.0-sapphirerapids-cpu2026-1.0.1-speed-20260429.cfg --threads 480 --define cores=480 --tune base
--output_format all --define intspeedaffinity --define drop_caches --nopower --runmode speed --tune base
--size refspeed intspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.011/templogs/preenv.intspeed.011.0.log --lognum 011.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-1.0.1-ic2026.0
```

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) Platinum 8490H
vendor_id       : GenuineIntel
cpu family      : 6
model           : 143
stepping        : 8
microcode       : 0x2b000661
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs eibrs_pbrsb bhi
cpu cores       : 60
siblings        : 60
8 physical ids  (chips)
480 processors  (hardware threads)
physical id 0:  core ids 0-59
physical id 1:  core ids 0-59
physical id 2:  core ids 0-59
physical id 3:  core ids 0-59
physical id 4:  core ids 0-59
physical id 5:  core ids 0-59
physical id 6:  core ids 0-59
physical id 7:  core ids 0-59
physical id 0:  apicids
0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 64, 66, 68, 70, 72
, 74, 76, 78, 80, 82, 84, 86, 88, 90, 92, 94, 96, 98, 100, 102, 104, 106, 108, 110, 112, 114, 116, 118
physical id 1:  apicids
128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 1
80, 182, 184, 186, 188, 190, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 23
2, 234, 236, 238, 240, 242, 244, 246
physical id 2:  apicids
256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 3
08, 310, 312, 314, 316, 318, 320, 322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 354, 356, 358, 36
0, 362, 364, 366, 368, 370, 372, 374
physical id 3:  apicids
384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 4
36, 438, 440, 442, 444, 446, 448, 450, 452, 454, 456, 458, 460, 462, 464, 466, 468, 470, 472, 474, 476, 478, 480, 482, 484, 486, 48
8, 490, 492, 494, 496, 498, 500, 502
physical id 4:  apicids
512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 5
64, 566, 568, 570, 572, 574, 576, 578, 580, 582, 584, 586, 588, 590, 592, 594, 596, 598, 600, 602, 604, 606, 608, 610, 612, 614, 61
6, 618, 620, 622, 624, 626, 628, 630
```

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Platform Notes (Continued)

physical id 5: apicids

640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702, 704, 706, 708, 710, 712, 714, 716, 718, 720, 722, 724, 726, 728, 730, 732, 734, 736, 738, 740, 742, 744, 746, 748, 750, 752, 754, 756, 758

physical id 6: apicids

768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 832, 834, 836, 838, 840, 842, 844, 846, 848, 850, 852, 854, 856, 858, 860, 862, 864, 866, 868, 870, 872, 874, 876, 878, 880, 882, 884, 886

physical id 7: apicids

896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958, 960, 962, 964, 966, 968, 970, 972, 974, 976, 978, 980, 982, 984, 986, 988, 990, 992, 994, 996, 998, 1000, 1002, 1004, 1006, 1008, 1010, 1012, 1014

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:	46 bits physical, 57 bits virtual
Byte Order:	Little Endian
CPU(s):	480
On-line CPU(s) list:	0-479
Vendor ID:	GenuineIntel
Model name:	Intel(R) Xeon(R) Platinum 8490H
CPU family:	6
Model:	143
Thread(s) per core:	1
Core(s) per socket:	60
Socket(s):	8
Stepping:	8
CPU(s) scaling MHz:	24%
CPU max MHz:	3500.0000
CPU min MHz:	800.0000
BogoMIPS:	3800.00

Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 cat_l2 cdp_l3 intel_ppin cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid cqm

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Platform Notes (Continued)

rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb
intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1
xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local
split_lock_detect user_shstk avx_vnni avx512_bf16 wbnoinvd dtherm ida
arat pln pts vnmi avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni
vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq la57
rdpid bus_lock_detect cldemote movdiri movdir64b enqcmd fsrm md_clear
serialize tsxldtrk pconfig arch_lbr ibt amx_bf16 avx512_fp16 amx_tile
amx_int8 flush_l1d arch_capabilities

Virtualization:

VT-x

L1d cache: 22.5 MiB (480 instances)

L1i cache: 15 MiB (480 instances)

L2 cache: 960 MiB (480 instances)

L3 cache: 900 MiB (8 instances)

NUMA node(s): 16

NUMA node0 CPU(s): 0-29

NUMA node1 CPU(s): 30-59

NUMA node2 CPU(s): 60-89

NUMA node3 CPU(s): 90-119

NUMA node4 CPU(s): 120-149

NUMA node5 CPU(s): 150-179

NUMA node6 CPU(s): 180-209

NUMA node7 CPU(s): 210-239

NUMA node8 CPU(s): 240-269

NUMA node9 CPU(s): 270-299

NUMA node10 CPU(s): 300-329

NUMA node11 CPU(s): 330-359

NUMA node12 CPU(s): 360-389

NUMA node13 CPU(s): 390-419

NUMA node14 CPU(s): 420-449

NUMA node15 CPU(s): 450-479

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; RSB filling;
PBRBS-eIBRS SW sequence; BHI BHI_DIS_S

Vulnerability Srbds: Not affected

Vulnerability Tsx async abort: Not affected

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Platform Notes (Continued)

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	22.5M	12	Data	1	64	1	64
L1i	32K	15M	8	Instruction	1	64	1	64
L2	2M	960M	16	Unified	2	2048	1	64
L3	112.5M	900M	15	Unified	3	122880	1	64

8. numactl --hardware

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

available: 16 nodes (0-15)

node 0 cpus: 0-29

node 0 size: 257505 MB

node 0 free: 257017 MB

node 1 cpus: 30-59

node 1 size: 258039 MB

node 1 free: 257650 MB

node 2 cpus: 60-89

node 2 size: 258039 MB

node 2 free: 257513 MB

node 3 cpus: 90-119

node 3 size: 258039 MB

node 3 free: 257654 MB

node 4 cpus: 120-149

node 4 size: 258039 MB

node 4 free: 257582 MB

node 5 cpus: 150-179

node 5 size: 258039 MB

node 5 free: 257591 MB

node 6 cpus: 180-209

node 6 size: 258039 MB

node 6 free: 257580 MB

node 7 cpus: 210-239

node 7 size: 258039 MB

node 7 free: 257696 MB

node 8 cpus: 240-269

node 8 size: 258001 MB

node 8 free: 257425 MB

node 9 cpus: 270-299

node 9 size: 258039 MB

node 9 free: 257409 MB

node 10 cpus: 300-329

node 10 size: 258039 MB

node 10 free: 249904 MB

node 11 cpus: 330-359

node 11 size: 258039 MB

node 11 free: 257583 MB

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Platform Notes (Continued)

node 12 cpus: 360-389
node 12 size: 258039 MB
node 12 free: 257668 MB
node 13 cpus: 390-419
node 13 size: 258039 MB
node 13 free: 257747 MB
node 14 cpus: 420-449
node 14 size: 258039 MB
node 14 free: 257745 MB
node 15 cpus: 450-479
node 15 size: 257960 MB
node 15 free: 257505 MB

node distances:

node	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0:	10	12	21	21	21	21	31	31	31	31	21	21	21	21	31	31
1:	12	10	21	21	21	21	31	31	31	31	21	21	21	21	31	31
2:	21	21	10	12	31	31	21	21	21	21	31	31	31	31	21	21
3:	21	21	12	10	31	31	21	21	21	21	31	31	31	31	21	21
4:	21	21	31	31	10	12	21	21	21	21	31	31	31	31	21	21
5:	21	21	31	31	12	10	21	21	21	21	31	31	31	31	21	21
6:	31	31	21	21	21	21	10	12	31	31	21	21	21	21	31	31
7:	31	31	21	21	21	21	12	10	31	31	21	21	21	21	31	31
8:	31	31	21	21	21	21	31	31	10	12	21	21	21	21	31	31
9:	31	31	21	21	21	21	31	31	12	10	21	21	21	21	31	31
10:	21	21	31	31	31	31	21	21	21	21	10	12	31	31	21	21
11:	21	21	31	31	31	31	21	21	21	21	12	10	31	31	21	21
12:	21	21	31	31	31	31	21	21	21	21	31	31	10	12	21	21
13:	21	21	31	31	31	31	21	21	21	21	31	31	12	10	21	21
14:	31	31	21	21	21	21	31	31	31	31	21	21	21	21	10	12
15:	31	31	21	21	21	21	31	31	31	31	21	21	21	21	12	10

9. /proc/meminfo

MemTotal: 4227056320 kB

10. who -r

run-level 3 Jun 22 18:11

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

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(1.90 GHz, Intel Xeon Platinum 8490H)

SPECspeed®2026_int_base = 7.54

SPECspeed®2026_int_peak = Not Run

CPU2026 License: 9017

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Tested by: Lenovo Global Technology

Test Date: Jun-2026

Hardware Availability: Oct-2023

Software Availability: Apr-2026

Platform Notes (Continued)

enabled YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron getty@ irqbalance issue-generator
kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvme-autoconnect 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 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-sysexit systemd-time-wait-sync systemd-timesyncd

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=e1445b64-10ff-47e2-9082-84446e3c722f
splash=silent
mitigations=auto
quiet
security=apparmor

14. cpupower frequency-info

analyzing CPU 228:
current policy: frequency should be within 800 MHz and 3.50 GHz.
The governor "powersave" 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	2
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	20
vm.dirty_writeback_centisecs	500
vm.dirtytime_expire_seconds	43200
vm.extfrag_threshold	500
vm.min_unmapped_ratio	1
vm.nr_hugepages	0

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Platform Notes (Continued)

```
vm.nr_hugepages_mempolicy      0
vm.nr_overcommit_hugepages     0
vm.swappiness                   60
vm.watermark_boost_factor      15000
vm.watermark_scale_factor      10
vm.zone_reclaim_mode           0
```

```
-----
16. /sys/kernel/mm/transparent_hugepage
   defrag          always defer defer+madvice [madvice] never
   enabled         [always] madvice 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
```

```
-----
19. Disk information
   SPEC is set to: /home/cpu2026-1.0.1-ic2026.0
   Filesystem      Type  Size  Used Avail Use% Mounted on
   /dev/nvme0n1p3  xfs   893G  146G  747G  17% /
```

```
-----
20. /sys/devices/virtual/dmi/id
   Vendor:      Lenovo
   Product:     ThinkSystem SR950 V3
   Product Family: ThinkSystem
   Serial:      JPBLR002
```

```
-----
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
```

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Platform Notes (Continued)

"DMTF SMBIOS" standard.

Memory:

1x Samsung M321R8GA0BB0-CQKDG 64 GB 2 rank 4800
3x Samsung M321R8GA0BB0-CQKEG 64 GB 2 rank 4800
14x Samsung M321R8GA0BB0-CQKMG 64 GB 2 rank 4800
46x Samsung M321R8GA0BB0-CQKVG 64 GB 2 rank 4800

22. BIOS

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

BIOS Vendor: Lenovo
BIOS Version: EBE123G-7.50
BIOS Date: 05/15/2026
BIOS Revision: 7.50
Firmware Revision: 7.10

Compiler Version Notes

C | 854.graph500_s(base)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

C++ | 807.ntest_s(base) 827.cppcheck_s(base) 853.ns3_s(base)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

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)

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Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

Base Portability Flags

834.vpr_s: -fno-fast-math

Base Optimization Flags

C benchmarks:

-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xsapphirerapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fno-strict-aliasing -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

C++ benchmarks:

-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xsapphirerapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -pthread
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xsapphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -fno-strict-aliasing -fiopenmp
-DSPEC_OPENMP -pthread -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu2026-Flags-V1.2-Eaglestream-AD.html>

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.html>



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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu2026-Flags-V1.2-Eaglestream-AD.xml>

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.xml>

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