



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Lenovo Global Technology

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

SPECrate®2026_int_base = 1660

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9017

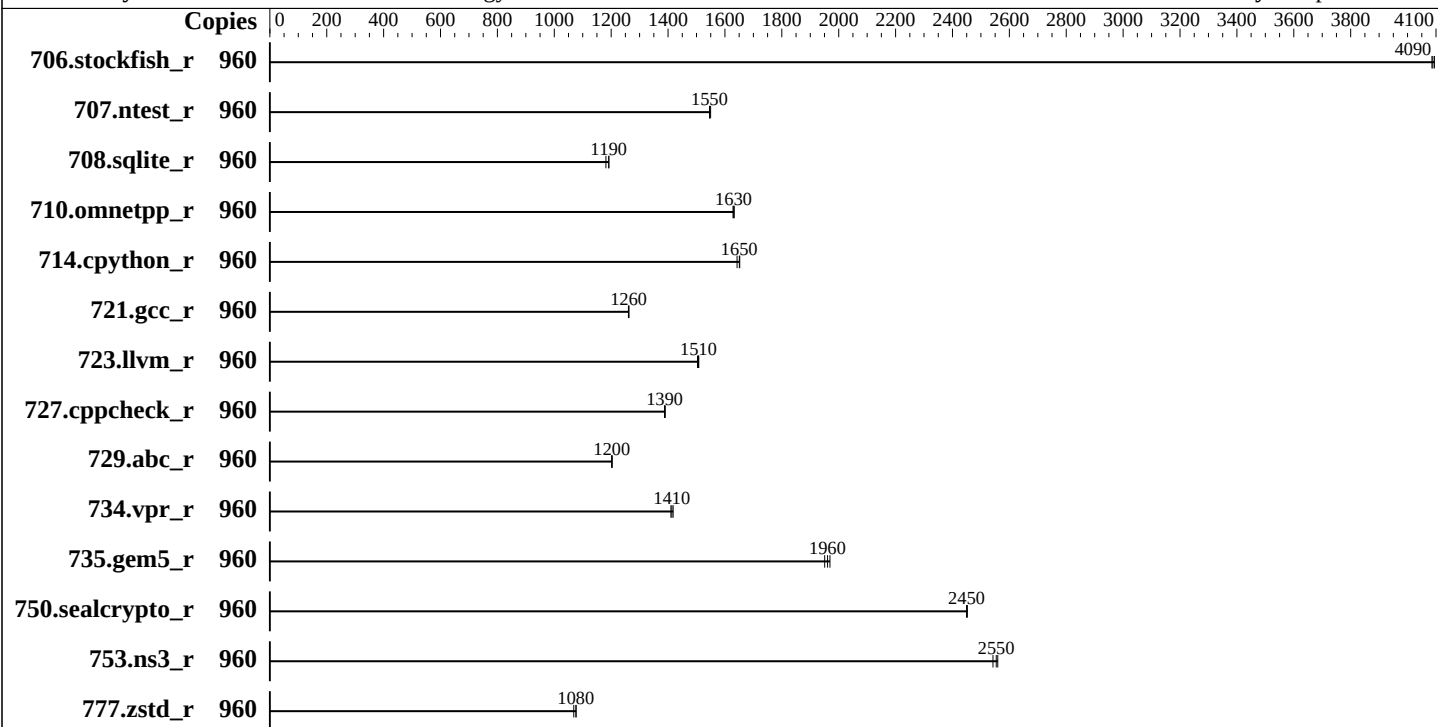
Test Sponsor: Lenovo Global Technology

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, 2 threads/core
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: tcmalloc memory allocator v2.18.1
Power Management: BIOS set to prefer performance at the cost of additional power usage



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	960	<u>296</u>	<u>4090</u>	296	4090	295	4090							
707.ntest_r	960	367	1550	<u>368</u>	<u>1550</u>	368	1550							
708.sqlite_r	960	<u>425</u>	<u>1190</u>	425	1190	429	1180							
710.omnetpp_r	960	286	1630	287	1630	<u>286</u>	<u>1630</u>							
714.cpython_r	960	278	1650	280	1640	<u>279</u>	<u>1650</u>							
721.gcc_r	960	522	1260	522	1260	<u>522</u>	<u>1260</u>							
723.llvm_r	960	323	1510	324	1500	<u>323</u>	<u>1510</u>							
727.cppcheck_r	960	248	1390	<u>248</u>	<u>1390</u>	248	1390							
729.abc_r	960	<u>366</u>	<u>1200</u>	367	1200	366	1200							
734.vpr_r	960	312	1420	<u>313</u>	<u>1410</u>	314	1410							
735.gem5_r	960	237	1970	240	1950	<u>238</u>	<u>1960</u>							
750.sealcrypto_r	960	210	2450	<u>210</u>	<u>2450</u>	210	2450							
753.ns3_r	960	230	2560	<u>230</u>	<u>2550</u>	231	2540							
777.zstd_r	960	574	1080	579	1070	<u>574</u>	<u>1080</u>							

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

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

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

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:

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General Notes (Continued)

```
sync; echo 3> /proc/sys/vm/drop_caches
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
```

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.

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.

tcmalloc, a fast, multithreaded malloc implementation
built with the CentOS Stream 9, and the system compiler gcc 11.5.0
sources available from github.com/gperftools/gperftools

Platform Notes

BIOS configuration:

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

C-States set to Legacy

DCU Streamer Prefetcher set to Disabled

SNC set to SNC4

Misc set to Option4

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

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Tue Jun 23 22:51:19 2026

SUT (System Under Test) info as seen by some common utilities.

Table of contents

1. uname -srv
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

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Platform Notes (Continued)

```
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
```

```
22:51:19 up 5 min, 1 user, load average: 1.89, 7.29, 4.07
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) 16510495
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) 16510495
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
```

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Platform Notes (Continued)

```
/bin/bash ./02.remote_local_SPECccpu_1.02.sh
sh Run502-compliant-ic2026.0-lin-sapphirerapids-rateint-base-smt-on-20260429_revB.sh
runcpu --nobuild --iterations=3 --reportable --action validate --define default-platform-flags --copies 960
-c ic2026.0-sapphirerapids-cpu2026-1.0.1-rate-20260429_revB.cfg --define smt-on --define cores=480
--define physicalfirst --define invoke_with_interleave --define drop_caches --tune base -o all intrate
runcpu --nobuild --iterations 3 --reportable --action validate --define default-platform-flags --copies 960
--configfile ic2026.0-sapphirerapids-cpu2026-1.0.1-rate-20260429_revB.cfg --define smt-on --define
cores=480 --define physicalfirst --define invoke_with_interleave --define drop_caches --tune base
--output_format all --nopower --runmode rate --tune base --size refrate intrate --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.008/templogs/preenv.intrate.008.0.log --lognum 008.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-1.0.1-ic2026.0-rate
```

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        : 120
8 physical ids  (chips)
960 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 0-119
physical id 1:  apicids 128-247
physical id 2:  apicids 256-375
physical id 3:  apicids 384-503
physical id 4:  apicids 512-631
physical id 5:  apicids 640-759
physical id 6:  apicids 768-887
physical id 7:  apicids 896-1015
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

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Platform Notes (Continued)

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):	960
On-line CPU(s) list:	0-959
Vendor ID:	GenuineIntel
Model name:	Intel(R) Xeon(R) Platinum 8490H
CPU family:	6
Model:	143
Thread(s) per core:	2
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
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:

L1d cache:	VT-x
L1i cache:	22.5 MiB (480 instances)
L2 cache:	15 MiB (480 instances)
L3 cache:	960 MiB (480 instances)
NUMA node(s):	900 MiB (8 instances)
NUMA node0 CPU(s):	32
NUMA node1 CPU(s):	0-14, 480-494
	15-29, 495-509

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Platform Notes (Continued)

NUMA node2 CPU(s):	30-44, 510-524
NUMA node3 CPU(s):	45-59, 525-539
NUMA node4 CPU(s):	60-74, 540-554
NUMA node5 CPU(s):	75-89, 555-569
NUMA node6 CPU(s):	90-104, 570-584
NUMA node7 CPU(s):	105-119, 585-599
NUMA node8 CPU(s):	120-134, 600-614
NUMA node9 CPU(s):	135-149, 615-629
NUMA node10 CPU(s):	150-164, 630-644
NUMA node11 CPU(s):	165-179, 645-659
NUMA node12 CPU(s):	180-194, 660-674
NUMA node13 CPU(s):	195-209, 675-689
NUMA node14 CPU(s):	210-224, 690-704
NUMA node15 CPU(s):	225-239, 705-719
NUMA node16 CPU(s):	240-254, 720-734
NUMA node17 CPU(s):	255-269, 735-749
NUMA node18 CPU(s):	270-284, 750-764
NUMA node19 CPU(s):	285-299, 765-779
NUMA node20 CPU(s):	300-314, 780-794
NUMA node21 CPU(s):	315-329, 795-809
NUMA node22 CPU(s):	330-344, 810-824
NUMA node23 CPU(s):	345-359, 825-839
NUMA node24 CPU(s):	360-374, 840-854
NUMA node25 CPU(s):	375-389, 855-869
NUMA node26 CPU(s):	390-404, 870-884
NUMA node27 CPU(s):	405-419, 885-899
NUMA node28 CPU(s):	420-434, 900-914
NUMA node29 CPU(s):	435-449, 915-929
NUMA node30 CPU(s):	450-464, 930-944
NUMA node31 CPU(s):	465-479, 945-959
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

From lscpu --cache:

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Platform Notes (Continued)

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: 32 nodes (0-31)

node 0 cpus: 0-14,480-494

node 0 size: 128314 MB

node 0 free: 127401 MB

node 1 cpus: 15-29,495-509

node 1 size: 129015 MB

node 1 free: 128625 MB

node 2 cpus: 30-44,510-524

node 2 size: 129015 MB

node 2 free: 128600 MB

node 3 cpus: 45-59,525-539

node 3 size: 129015 MB

node 3 free: 128580 MB

node 4 cpus: 60-74,540-554

node 4 size: 129015 MB

node 4 free: 128550 MB

node 5 cpus: 75-89,555-569

node 5 size: 129015 MB

node 5 free: 128717 MB

node 6 cpus: 90-104,570-584

node 6 size: 129015 MB

node 6 free: 128598 MB

node 7 cpus: 105-119,585-599

node 7 size: 129015 MB

node 7 free: 128736 MB

node 8 cpus: 120-134,600-614

node 8 size: 129015 MB

node 8 free: 128740 MB

node 9 cpus: 135-149,615-629

node 9 size: 129015 MB

node 9 free: 128782 MB

node 10 cpus: 150-164,630-644

node 10 size: 129015 MB

node 10 free: 128683 MB

node 11 cpus: 165-179,645-659

node 11 size: 129015 MB

node 11 free: 128755 MB

node 12 cpus: 180-194,660-674

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Platform Notes (Continued)

node 12 size: 129015 MB
node 12 free: 128462 MB
node 13 cpus: 195-209, 675-689
node 13 size: 129015 MB
node 13 free: 128602 MB
node 14 cpus: 210-224, 690-704
node 14 size: 129015 MB
node 14 free: 128477 MB
node 15 cpus: 225-239, 705-719
node 15 size: 129015 MB
node 15 free: 128559 MB
node 16 cpus: 240-254, 720-734
node 16 size: 129015 MB
node 16 free: 128507 MB
node 17 cpus: 255-269, 735-749
node 17 size: 129015 MB
node 17 free: 128470 MB
node 18 cpus: 270-284, 750-764
node 18 size: 129015 MB
node 18 free: 128103 MB
node 19 cpus: 285-299, 765-779
node 19 size: 129015 MB
node 19 free: 128306 MB
node 20 cpus: 300-314, 780-794
node 20 size: 129015 MB
node 20 free: 128670 MB
node 21 cpus: 315-329, 795-809
node 21 size: 129015 MB
node 21 free: 128697 MB
node 22 cpus: 330-344, 810-824
node 22 size: 129015 MB
node 22 free: 128766 MB
node 23 cpus: 345-359, 825-839
node 23 size: 129015 MB
node 23 free: 128775 MB
node 24 cpus: 360-374, 840-854
node 24 size: 129015 MB
node 24 free: 128051 MB
node 25 cpus: 375-389, 855-869
node 25 size: 129015 MB
node 25 free: 128595 MB
node 26 cpus: 390-404, 870-884
node 26 size: 129015 MB
node 26 free: 128530 MB
node 27 cpus: 405-419, 885-899
node 27 size: 129015 MB
node 27 free: 128516 MB

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Platform Notes (Continued)

```
node 28 cpus: 420-434,900-914
node 28 size: 129015 MB
node 28 free: 128554 MB
node 29 cpus: 435-449,915-929
node 29 size: 129015 MB
node 29 free: 128574 MB
node 30 cpus: 450-464,930-944
node 30 size: 129015 MB
node 30 free: 128277 MB
node 31 cpus: 465-479,945-959
node 31 size: 128860 MB
node 31 free: 128392 MB
node distances:
node  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31
0: 10 12 12 12 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 21 21 21 21 21
21 21 21 31 31 31 31
1: 12 10 12 12 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 21 21 21 21 21
21 21 21 31 31 31 31
2: 12 12 10 12 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 21 21 21 21 21
21 21 21 31 31 31 31
3: 12 12 12 10 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 21 21 21 21 21
21 21 21 31 31 31 31
4: 21 21 21 21 10 12 12 12 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
5: 21 21 21 21 12 10 12 12 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
6: 21 21 21 21 12 12 10 12 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
7: 21 21 21 21 12 12 12 10 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
8: 21 21 21 21 21 31 31 31 31 10 12 12 12 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
9: 21 21 21 21 21 31 31 31 31 12 10 12 12 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
10: 21 21 21 21 31 31 31 31 12 12 10 12 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
11: 21 21 21 21 31 31 31 31 12 12 12 10 21 21 21 21 21 21 21 21 31 31 31 31
31 31 31 21 21 21 21
12: 31 31 31 31 21 21 21 21 21 21 21 21 10 12 12 12 31 31 31 31 21 21 21 21
21 21 21 31 31 31 31
13: 31 31 31 31 21 21 21 21 21 21 21 21 12 10 12 12 31 31 31 31 21 21 21 21
21 21 21 31 31 31 31
14: 31 31 31 31 21 21 21 21 21 21 21 21 12 12 10 12 31 31 31 31 21 21 21 21
21 21 21 31 31 31 31
15: 31 31 31 31 21 21 21 21 21 21 21 21 12 12 12 10 31 31 31 31 21 21 21 21
21 21 21 31 31 31 31
```

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SPECrate®2026_int_base = 1660

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

SPECrate®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

Platform Notes (Continued)

```
16: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 10 12 12 12 21 21 21 21 21
    21 21 21 31 31 31 31
17: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12 10 12 12 21 21 21 21 21
    21 21 21 31 31 31 31
18: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12 12 10 12 21 21 21 21 21
    21 21 21 31 31 31 31
19: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12 12 12 10 21 21 21 21 21
    21 21 21 31 31 31 31
20: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 10 12 12 12 31
    31 31 31 21 21 21 21
21: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 12 10 12 12 31
    31 31 31 21 21 21 21
22: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 12 12 10 12 31
    31 31 31 21 21 21 21
23: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 12 12 12 10 31
    31 31 31 21 21 21 21
24: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 10
    12 12 12 21 21 21 21
25: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12
    10 12 12 21 21 21 21
26: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12
    12 10 12 21 21 21 21
27: 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 12
    12 12 10 21 21 21 21
28: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21
    21 21 21 10 12 12 12
29: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21
    21 21 21 12 10 12 12
30: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21
    21 21 21 12 12 10 12
31: 31 31 31 31 21 21 21 21 21 21 21 21 31 31 31 31 31 31 31 31 21 21 21 21 21
    21 21 21 12 12 12 10
```

```
-----
9. /proc/meminfo
   MemTotal:      4226715920 kB
```

```
-----
10. who -r
    run-level 3 Jun 23 22:47
```

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

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Platform Notes (Continued)

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 wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime	systemd-remount-fs
disabled	autofs autovast-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 ipmievdev 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
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 853:
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

(Continued on next page)



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Platform Notes (Continued)

vm.min_unmapped_ratio	1
vm.nr_hugepages	0
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-rate

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0n1p3	xfs	893G	135G	758G	16%	/

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.

(Continued on next page)



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Platform Notes (Continued)

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:

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 | 708.sqlite_r(base) 714.cpython_r(base) 777.zstd_r(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++ | 706.stockfish_r(base) 707.ntest_r(base) 727.cppcheck_r(base)
| 753.ns3_r(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 | 710.omnetpp_r(base) 721.gcc_r(base) 723.llvm_r(base) 729.abc_r(base)
| 734.vpr_r(base) 735.gem5_r(base) 750.sealcrypto_r(base)

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Test Date: Jun-2026

Hardware Availability: Oct-2023

Software Availability: Apr-2026

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

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 -L/usr/local/tcmalloc-2.18.1/lib  
-ltcmalloc_minimal
```

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  
-L/usr/local/tcmalloc-2.18.1/lib -ltcmalloc_minimal
```

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  
-L/usr/local/tcmalloc-2.18.1/lib -ltcmalloc_minimal
```

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>

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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