



SPEC CPU®2026 Integer Rate Result

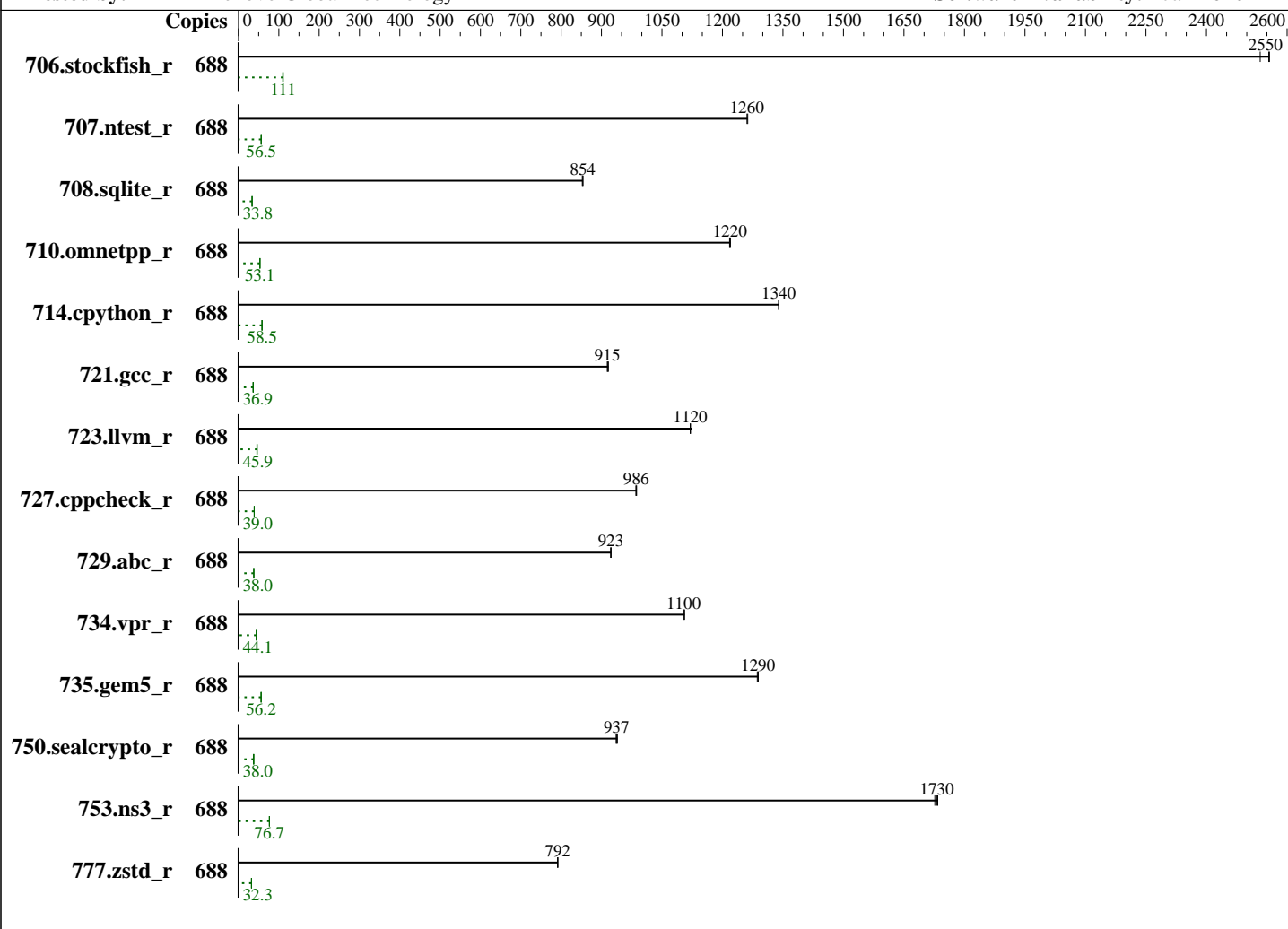
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Lenovo Global Technology ThinkSystem SR850 V4 (2.0 GHZ, Intel Xeon 6788P)

SPECrate®2026_int_base =	1160
SPECrate®2026_int_energy_base =	48.4
SPECrate®2026_int_peak =	Not Run
SPECrate®2026_int_energy_peak =	Not Run

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

Test Date: Feb-2026
Hardware Availability: Nov-2025
Software Availability: Jan-2026



Hardware

CPU Name: Intel Xeon 6788P
 Max MHz: 3800
 Nominal: 2000
 Enabled: 344 cores, 4 chips, 2 threads/core
 Orderable: 2,4 chips
 Cache L1: 64 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 336 MB I+D on chip per chip
 Other: None
 Memory: 2 TB (32 x 64 GB 2Rx4 PC5-6400B-R)
 Storage: 1 x 960 GB M.2 NVMe SSD

(Continued on next page)

Software

OS: SUSE Linux Enterprise Server 15 SP7
 Kernel 6.4.0-150700.51-default
 Compiler: C/C++: Version 2025.3 of Intel oneAPI DPC++/C++ Compiler for Linux;
 Fortran: Version 2025.3 of Intel Fortran Compiler for Linux
 Compiler Category: Vendor
 Firmware: BIOS Version RVE105I 1.20 released Dec-2025
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable

(Continued on next page)



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Hardware (Continued)

Cooling: Air
Other: None

Software (Continued)

Other: None
Power Management: BIOS set to balance power and performance

Power

Max. Power (W): 2422.0
Idle Power (W): 446.75
Min. Temperature (C): 21.81
Elevation (m): 43
Line Standard: 220 V / 50 Hz / 1 phase / 3 wires
Provisioning: Line-powered

Power Settings

Management FW: Version 2.00 of IHX427H
Memory Mode: Normal

Power-Relevant Hardware

Power Supply: 2 x 2000 W (redundant)
Details: ThinkSystem 2000W 230V Titanium CRPS Hot-Swap Power Supply 4P57A88689
Backplane: M.2 SATA/NVMe Drive Assembly Kit
Other Storage: None
Storage Model #: 4XB7A13999
NICs Installed: 1 x ThinkSystem Ethernet 2-port Adaptor @ 10 Gb
NICs Enabled (FW/OS): 2 / 1
NICs Connected/Speed: 1 @ 10 Gb
Other HW Model #: 6 x Performance fans

Power Analyzer

Power Analyzer: WIN:9888
Hardware Vendor: YOKOGAWA, Inc.
Model: YokogawaWT310E
Serial Number: C3SH31009E
Input Connection: Default
Metrology Institute: CNAS
Calibration By: CEPREI Calibration and Testing Centre
Calibration Label: 1GA25011731-0001
Calibration Date: 15-Sep-2025
PTDaemon® Version: 1.11.1 (462c978e; 2024-09-07)
Setup Description: Connected to PSU1
Current Ranges Used: 10A
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	Copies	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
706.stockfish_r	688	339	2550	664	111	1960	2160	342	2530	671	110	1960	2180	339	2560	666	111	1960	2160
707.ntest_r	688	325	1250	606	56.3	1870	2090	323	1260	604	56.5	1870	2110	323	1260	606	56.3	1880	2120
708.sqlite_r	688	425	854	900	33.9	2120	2280	425	854	903	33.8	2120	2300	426	852	904	33.7	2120	2290
710.omnetpp_r	688	274	1220	530	53.1	1930	2130	274	1220	530	53.1	1930	2140	275	1220	528	53.3	1920	2130
714.cpython_r	688	246	1340	472	58.4	1920	2140	246	1340	472	58.4	1920	2160	246	1340	471	58.5	1920	2140
721.gcc_r	688	515	917	1080	36.7	2110	2320	516	915	1110	35.9	2150	2310	516	915	1080	36.9	2090	2270

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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723.llvm_r	688	311	1120	629	46.6	2020	2360	311	1120	637	45.9	2050	2420	310	1120	642	45.6	2070	2360
727.cppcheck_r	688	251	985	532	39.0	2120	2300	250	986	532	39.0	2120	2300	250	987	531	39.1	2120	2310
729.abc_r	688	342	923	696	38.0	2040	2250	342	924	696	38.0	2040	2250	342	923	696	38.0	2040	2250
734.vpr_r	688	287	1100	602	44.1	2100	2320	287	1110	601	44.2	2090	2310	287	1100	600	44.3	2090	2320
735.gem5_r	688	260	1290	499	56.2	1920	2330	260	1290	500	56.1	1920	2320	260	1290	499	56.2	1920	2350
750.sealcrypto_r	688	393	939	843	36.9	2150	2300	394	936	818	38.1	2080	2220	393	937	820	38.0	2080	2220
753.ns3_r	688	244	1730	462	76.7	1900	2110	244	1730	461	76.9	1890	2110	243	1730	463	76.5	1900	2110
777.zstd_r	688	560	792	1150	32.3	2060	2260	560	791	1150	32.3	2060	2240	560	792	1150	32.3	2060	2250

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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/cpu2026-0.902.0-ic2025p3/lib"
MALLOC_CONF = "retain:true"

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
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>



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Platform Notes

BIOS configuration:
Workload Profile set to Custom
SNC set to Enabled
DCU Streamer Prefetcher set to Disabled
AMP Prefetch set to Disabled
XPT Prefetcher set to Disabled

Sysinfo program /home/cpu2026-0.902.0-ic2025p3/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on localhost Tue Feb 3 22:52:27 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. tuned-adm active
16. sysctl
17. /sys/kernel/mm/transparent_hugepage
18. /sys/kernel/mm/transparent_hugepage/khugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id
22. dmidecode
23. BIOS

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

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Platform Notes (Continued)

```
-----
2. w
  22:52:27 up 4:37, 1 user, load average: 8.90, 272.85, 483.08
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) 8253538
  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) 8253538
  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_1.01.sh
  sh Run302-compliant-ic2025.3-lin-graniterapids-rateint-base-smt-on-20260121.sh
  runcpu --power --nobuild --reportable --iterations=3 --action validate --define default-platform-flags
  --copies 688 -c ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=344
  --define physicalfirst --define invoke_with_interleave --define drop_caches --tune base -o all intrate
  runcpu --power --nobuild --reportable --iterations 3 --action validate --define default-platform-flags
  --copies 688 --configfile ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define
  cores=344 --define physicalfirst --define invoke_with_interleave --define drop_caches --tune base
  --output_format all --runmode rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
  $SPEC/tmp/CPU2026.014/templogs/preenv.intrate.014.0.log --lognum 014.0 --from_runcpu 2
  specperl $SPEC/bin/sysinfo
```

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Platform Notes (Continued)

\$SPEC = /home/cpu2026-0.902.0-ic2025p3

```

6. /proc/cpuinfo
  model name      : Intel(R) Xeon(R) 6788P
  vendor_id       : GenuineIntel
  cpu family      : 6
  model           : 173
  stepping        : 1
  microcode       : 0x1000405
  bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
  cpu cores       : 86
  siblings        : 172
  4 physical ids (chips)
  688 processors (hardware threads)
  physical id 0:  core ids 0-42,64-106
  physical id 1:  core ids 0-42,64-106
  physical id 2:  core ids 0-42,64-106
  physical id 3:  core ids 0-42,64-106
  physical id 0:  apicids 0-85,128-213
  physical id 1:  apicids 256-341,384-469
  physical id 2:  apicids 512-597,640-725
  physical id 3:  apicids 768-853,896-981

```

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):                688
On-line CPU(s) list:   0-687
Vendor ID:              GenuineIntel
Model name:            Intel(R) Xeon(R) 6788P
CPU family:            6
Model:                 173
Thread(s) per core:    2
Core(s) per socket:    86
Socket(s):             4
Stepping:              1
BogoMIPS:              4000.00

```

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Platform Notes (Continued)

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 aperfperf 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_lld arch_capabilities
```

Virtualization:

VT-x

L1d cache:	16.1 MiB (344 instances)
L1i cache:	21.5 MiB (344 instances)
L2 cache:	688 MiB (344 instances)
L3 cache:	1.3 GiB (4 instances)
NUMA node(s):	8
NUMA node0 CPU(s):	0-42,344-386
NUMA node1 CPU(s):	43-85,387-429
NUMA node2 CPU(s):	86-128,430-472
NUMA node3 CPU(s):	129-171,473-515
NUMA node4 CPU(s):	172-214,516-558
NUMA node5 CPU(s):	215-257,559-601
NUMA node6 CPU(s):	258-300,602-644
NUMA node7 CPU(s):	301-343,645-687
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; RSB filling;

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Vulnerability Srbds: PBR SB-eIBRS Not affected; BHI BHI_DIS_S 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	16.1M	12	Data	1	64	1	64
L1i	64K	21.5M	16	Instruction	1	64	1	64
L2	2M	688M	16	Unified	2	2048	1	64
L3	336M	1.3G	16	Unified	3	344064	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: 0-42,344-386
node 0 size: 257395 MB
node 0 free: 250164 MB
node 1 cpus: 43-85,387-429
node 1 size: 258025 MB
node 1 free: 256125 MB
node 2 cpus: 86-128,430-472
node 2 size: 258025 MB
node 2 free: 256122 MB
node 3 cpus: 129-171,473-515
node 3 size: 258025 MB
node 3 free: 256180 MB
node 4 cpus: 172-214,516-558
node 4 size: 258025 MB
node 4 free: 256178 MB
node 5 cpus: 215-257,559-601
node 5 size: 258025 MB
node 5 free: 256121 MB
node 6 cpus: 258-300,602-644
node 6 size: 258025 MB
node 6 free: 256159 MB
node 7 cpus: 301-343,645-687
node 7 size: 257865 MB
node 7 free: 255972 MB

```

```

node distances:
node  0  1  2  3  4  5  6  7
  0:  10 12 21 21 21 21 21 21
  1:  12 10 21 21 21 21 21 21
  2:  21 21 10 12 21 21 21 21
  3:  21 21 12 10 21 21 21 21

```

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Platform Notes (Continued)

```
4: 21 21 21 21 10 12 21 21
5: 21 21 21 21 12 10 21 21
6: 21 21 21 21 21 21 10 12
7: 21 21 21 21 21 21 12 10
```

9. /proc/meminfo
MemTotal: 2112933784 kB

10. who -r
run-level 3 Feb 3 18:17

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

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron getty@ irqbalance issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvme-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 firewallld 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-sysextd systemd-time-wait-sync systemd-timesyncd tuned
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=5caa0f87-5156-4d0e-b8a9-eafcf70a6b5a
splash=silent
mitigations=auto
quiet
security=apparmor

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Platform Notes (Continued)

14. cpupower frequency-info

```
analyzing CPU 95:
  Unable to determine current policy
  boost state support:
    Supported: yes
    Active: yes
```

15. tuned-adm active

```
It seems that tuned daemon is not running, preset profile is not activated.
Preset profile: latency-performance
```

16. 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
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
```

17. /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
```

18. /sys/kernel/mm/transparent_hugepage/khugepaged

```
alloc_sleep_millisecs  60000
defrag                  1
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

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Lenovo Global Technology
ThinkSystem SR850 V4
(2.0 GHZ, Intel Xeon 6788P)

SPECrate®2026_int_base =	1160
SPECrate®2026_int_energy_base =	48.4
SPECrate®2026_int_peak =	Not Run
SPECrate®2026_int_energy_peak =	Not Run

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

Test Date: Feb-2026
Hardware Availability: Nov-2025
Software Availability: Jan-2026

Platform Notes (Continued)

```
max_ptes_none          511
max_ptes_shared        256
max_ptes_swap          64
pages_to_scan          4096
scan_sleep_millisecs   10000
```

19. OS release

```
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP7
```

20. Disk information

```
SPEC is set to: /home/cpu2026-0.902.0-ic2025p3
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p3  xfs   890G   99G  792G  12% /
```

21. /sys/devices/virtual/dmi/id

```
Vendor:          Lenovo
Product:         ThinkSystem SR850 V4
Product Family: ThinkSystem
Serial:          9876543210
```

22. dmidecode

Additional information from dmidecode 3.6 follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

```
Memory:
 5x Samsung M321R8GA0PB2-CCPEC 64 GB 2 rank 6400
 6x Samsung M321R8GA0PB2-CCPKC 64 GB 2 rank 6400
17x Samsung M321R8GA0PB2-CCPPC 64 GB 2 rank 6400
 4x Samsung M321R8GA0PB2-CCPWC 64 GB 2 rank 6400
```

23. BIOS

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

```
BIOS Vendor:      Lenovo
BIOS Version:     RVE105I-1.20
BIOS Date:        12/16/2025
BIOS Revision:    1.20
Firmware Revision: 2.0
```



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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 2025.3.0 Build 20251010
Copyright (C) 1985-2025 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 2025.3.0 Build 20251010
Copyright (C) 1985-2025 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)
-----
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2025.3.0 Build 20251010
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.
-----
```

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

Base Portability Flags

706.stockfish_r: -DSPEC_LP64

(Continued on next page)



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Base Portability Flags (Continued)

```
707.ntest_r: -DSPEC_LP64
708.sqlite_r: -DSPEC_LP64
710.omnetpp_r: -DSPEC_LP64
714.cpython_r: -DSPEC_LP64
721.gcc_r: -DSPEC_LP64
723.llvm_r: -DSPEC_LP64
727.cppcheck_r: -DSPEC_LP64
729.abc_r: -DSPEC_LP64
734.vpr_r: -DSPEC_LP64
735.gem5_r: -DSPEC_LP64
750.sealcrypto_r: -DSPEC_LP64
753.ns3_r: -DSPEC_LP64
777.zstd_r: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-z,muldefs -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

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-Birchstream-M.html>
<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64-cpu2026-0.902.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-Birchstream-M.xml>
<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64-cpu2026-0.902.xml>



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