



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Lenovo Global Technology

ThinkSystem SR860 V4
(2.00 GHz, Intel Xeon 6788P)

SPECrate®2026_int_base = 1270

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9017

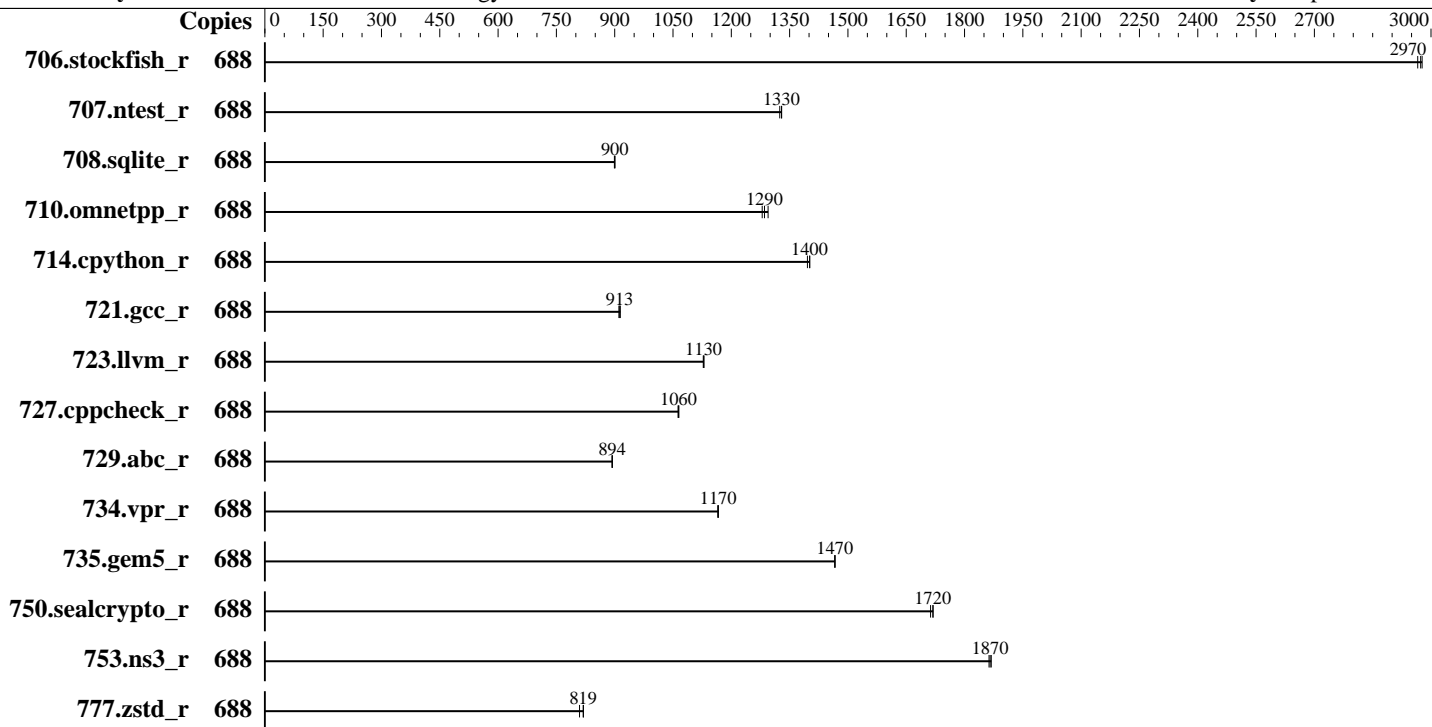
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: May-2026

Hardware Availability: Nov-2025

Software Availability: Apr-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
 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 RVE107H 1.30 released Apr-2026
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: None
 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	688	291	2980	292	2970	<u>292</u>	<u>2970</u>							
707.ntest_r	688	306	1330	307	1320	<u>306</u>	<u>1330</u>							
708.sqlite_r	688	<u>404</u>	<u>900</u>	404	899	403	900							
710.omnetpp_r	688	<u>260</u>	<u>1290</u>	258	1290	261	1280							
714.cpython_r	688	<u>235</u>	<u>1400</u>	235	1400	236	1400							
721.gcc_r	688	516	914	518	911	<u>517</u>	<u>913</u>							
723.llvm_r	688	309	1130	309	1130	<u>309</u>	<u>1130</u>							
727.cppcheck_r	688	232	1060	232	1070	<u>232</u>	<u>1060</u>							
729.abc_r	688	354	893	353	894	<u>353</u>	<u>894</u>							
734.vpr_r	688	272	1170	272	1170	<u>272</u>	<u>1170</u>							
735.gem5_r	688	<u>228</u>	<u>1470</u>	229	1470	228	1470							
750.sealcrypto_r	688	215	1710	214	1720	<u>215</u>	<u>1720</u>							
753.ns3_r	688	<u>226</u>	<u>1870</u>	226	1860	226	1870							
777.zstd_r	688	547	809	<u>541</u>	<u>819</u>	541	820							

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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/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

(Continued on next page)



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General Notes (Continued)

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>

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.

Platform Notes

BIOS configuration:

Workload Profile set to General Computing - Max Performance and then set it to Custom

SNC set to Enabled

UPI Link Disable set to Minimum Number of Links Enabled

Page Policy set to Adaptive

CPU P-state Control set to Cooperative with Legacy

DCU Streamer Prefetcher set to Disabled

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

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Fri May 15 13:41:50 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

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Platform Notes (Continued)

- 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
13:41:50 up 4:16, 1 user, load average: 60.11, 410.18, 547.84
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) 8253528
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) 8253528
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
```

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Platform Notes (Continued)

```
sh Run302-compliant-ic2026.0-lin-graniterapids-rateint-base-smt-on-20260429.sh
runcpu --nobuild --iterations=3 --reportable --action validate --define default-platform-flags --copies 688
-c ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=344 --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 688
--configfile ic2026.0-graniterapids-cpu2026-1.0.1-rate-20260429.cfg --define smt-on --define cores=344
--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/CPU2026.072/templogs/preenv.intrate.072.0.log --lognum 072.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-1.0.1-ic2026.0
```

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6788P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x1000423
bugs           : spectre_v1 spectre_v2 spec_store_bypass swappgs 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
```

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Platform Notes (Continued)

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
CPU(s) scaling MHz:	22%
CPU max MHz:	3800.0000
CPU min MHz:	800.0000
BogoMIPS:	4000.00
Flags:	<pre> 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 pdpelgb 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 bml 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 hwp hwp_act_window hwp_epp hwp_pkg_req 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 </pre>
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

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Platform Notes (Continued)

```

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;
                                   PBRSE-eIBRS Not affected; BHI BHI_DIS_S
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	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: 257431 MB
node 0 free: 255234 MB
node 1 cpus: 43-85,387-429
node 1 size: 258025 MB
node 1 free: 255977 MB
node 2 cpus: 86-128,430-472
node 2 size: 258025 MB
node 2 free: 256003 MB
node 3 cpus: 129-171,473-515
node 3 size: 257986 MB
node 3 free: 255991 MB
node 4 cpus: 172-214,516-558
node 4 size: 258025 MB
node 4 free: 256008 MB
node 5 cpus: 215-257,559-601
node 5 size: 258025 MB
node 5 free: 255953 MB
node 6 cpus: 258-300,602-644
node 6 size: 258025 MB
node 6 free: 255900 MB
node 7 cpus: 301-343,645-687

```

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Platform Notes (Continued)

```
node 7 size: 257865 MB
node 7 free: 255787 MB
node distances:
node  0  1  2  3  4  5  6  7
 0:  10 12 21 21 31 31 21 21
 1:  12 10 21 21 31 31 21 21
 2:  21 21 10 12 21 21 31 31
 3:  21 21 12 10 21 21 31 31
 4:  31 31 21 21 10 12 21 21
 5:  31 31 21 21 12 10 21 21
 6:  21 21 31 31 21 21 10 12
 7:  21 21 31 31 21 21 12 10
```

```
-----
9. /proc/meminfo
   MemTotal:          2112931152 kB
```

```
-----
10. who -r
    run-level 3 May 15 09:27
```

```
-----
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 wickedd 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-sysextd 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=c4fead92-3707-4baf-9eca-4d3d33e920de
    splash=silent
```

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Platform Notes (Continued)

```
mitigations=auto
quiet
security=apparmor
```

14. cpupower frequency-info

```
analyzing CPU 438:
  current policy: frequency should be within 800 MHz and 3.80 GHz.
                  The governor "performance" 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
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
```

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Platform Notes (Continued)

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/nvme0nlp3 xfs 893G 198G 695G 23% /

20. /sys/devices/virtual/dmi/id
Vendor: Lenovo
Product: ThinkSystem SR860 V4
Product Family: ThinkSystem
Serial: 9876543210

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:
4x SK Hynix HMCG94AHBRA275N 64 GB 2 rank 6400
6x SK Hynix HMCG94AHBRA277N 64 GB 2 rank 6400
3x SK Hynix HMCG94AHBRA281N 64 GB 2 rank 6400
2x SK Hynix HMCG94AHBRA283N 64 GB 2 rank 6400
7x SK Hynix HMCG94AHBRA480N 64 GB 2 rank 6400
7x SK Hynix HMCG94AHBRA481N 64 GB 2 rank 6400
3x SK Hynix HMCG94AHBRA486N 64 GB 2 rank 6400

22. BIOS
(This section combines info from /sys/devices and dmidecode.)
BIOS Vendor: Lenovo
BIOS Version: RVE107H-1.30
BIOS Date: 04/10/2026
BIOS Revision: 1.30

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Platform Notes (Continued)

Firmware Revision: 2.31

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
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=====
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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Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Benchmarks using both C and C++:
icpx icx



SPEC CPU®2026 Integer Rate Result

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Lenovo Global Technology

ThinkSystem SR860 V4
(2.00 GHz, Intel Xeon 6788P)

SPECrate®2026_int_base = 1270

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9017

Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: May-2026

Hardware Availability: Nov-2025

Software Availability: Apr-2026

Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xgraniterapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fno-strict-aliasing -L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xgraniterapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -fno-strict-aliasing
-L/opt/intel/oneapi/compiler/2026.0/lib -lqkmallo
```

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

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu-Flags-V1.2-Birchstream-M.html>

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

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

<http://www.spec.org/cpu2026/results/flags/Lenovo-Platform-SPECcpu-Flags-V1.2-Birchstream-M.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

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