



# SPEC CPU®2026 Floating Point Speed Result

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## Lenovo Global Technology

ThinkSystem SR860 V4  
(2.50 GHz, Intel Xeon 6748P)

SPECspeed®2026\_fp\_base = 5.19

SPECspeed®2026\_fp\_peak = Not Run

CPU2026 License: 9017

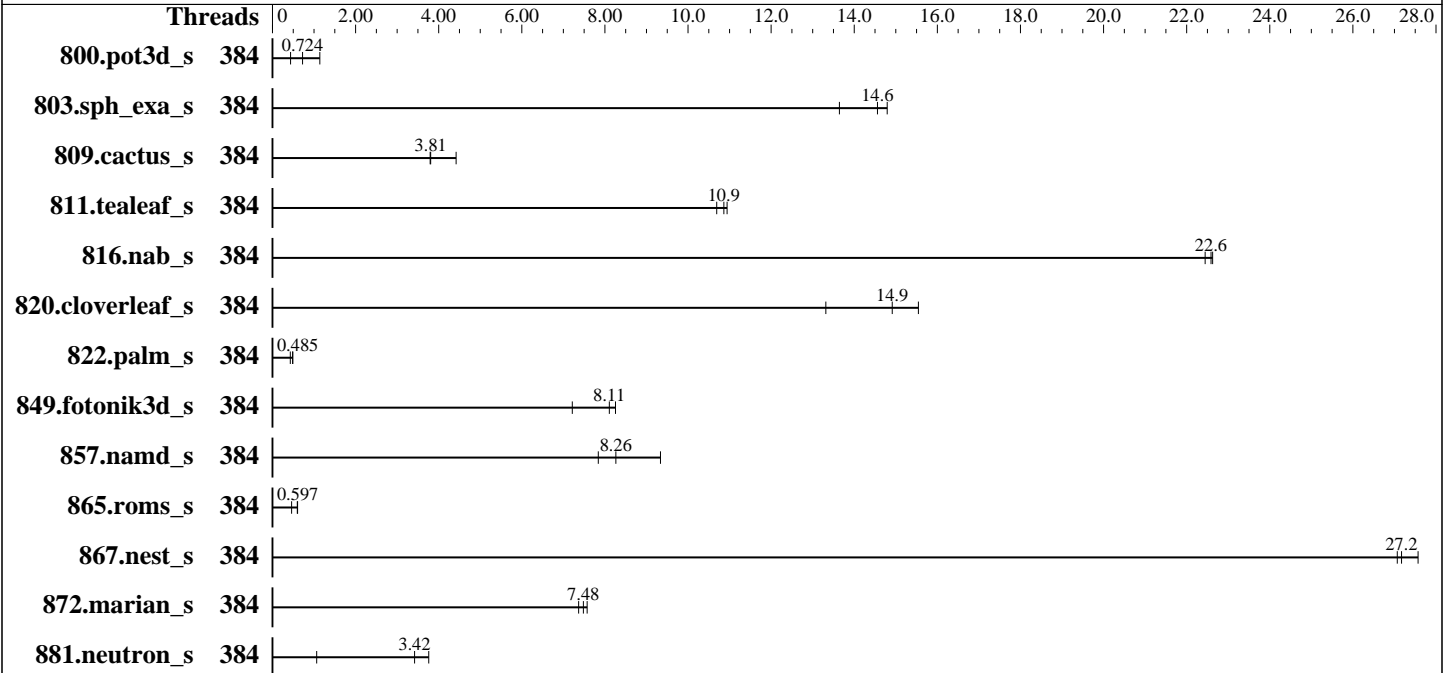
Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Feb-2026

Hardware Availability: Nov-2025

Software Availability: Jan-2026



### Hardware

CPU Name: Intel Xeon 6748P  
 Max MHz: 4100  
 Nominal: 2500  
 Enabled: 192 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: 192 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: CPU Cooling: Air

### 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: Lenovo BIOS Version RVE1051 1.20 released Dec-2025  
 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
800.pot3d_s	384	1546	0.435	591	1.14	<b>930</b>	<b>0.724</b>							
803.sph_exa_s	384	<b>85.0</b>	<b>14.6</b>	83.7	14.8	90.7	13.6							
809.cactus_s	384	296	3.79	254	4.42	<b>295</b>	<b>3.81</b>							
811.tealeaf_s	384	<b>51.3</b>	<b>10.9</b>	50.9	10.9	52.1	10.7							
816.nab_s	384	49.8	22.6	50.2	22.4	<b>49.9</b>	<b>22.6</b>							
820.cloverleaf_s	384	55.1	15.5	<b>57.5</b>	<b>14.9</b>	64.4	13.3							
822.palm_s	384	2863	0.429	<b>2530</b>	<b>0.485</b>	2514	0.489							
849.fotonik3d_s	384	<b>81.4</b>	<b>8.11</b>	80.0	8.25	91.5	7.22							
857.namd_s	384	156	9.34	<b>176</b>	<b>8.26</b>	185	7.84							
865.roms_s	384	1804	0.604	2368	0.460	<b>1825</b>	<b>0.597</b>							
867.nest_s	384	<b>79.5</b>	<b>27.2</b>	79.8	27.1	78.4	27.6							
872.marian_s	384	<b>145</b>	<b>7.48</b>	143	7.57	147	7.37							
881.neutron_s	384	<b>238</b>	<b>3.42</b>	766	1.06	217	3.76							

SPECspeed®2026\_fp\_base = 5.19

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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:  
LD\_LIBRARY\_PATH = "/home/cpu2026-0.902.0-ic2025p3/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  
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>



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### Platform Notes

BIOS configuration:

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

LLC Prefetch set to Enabled

CPU P-state Control set to Cooperative with Legacy

Sysinfo program /home/cpu2026-0.902.0-ic2025p3/bin/sysinfo

Rev: 069f95da7e7f5d81b2ce48a82150e54f

running on localhost Fri Feb 6 06:50:38 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  
-----

2. w  
06:50:38 up 12:27, 1 user, load average: 78.30, 153.95, 247.01  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

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### Platform Notes (Continued)

-----  
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) 8254675
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) 8254675
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 Run543-compliant-ic2025.3-lin-sapphirerapids-speedfp-base-smt-on-20260121.sh
runcpu --nobuild --reportable --iterations=3 --action validate --define default-platform-flags -c
ic2025.3-sapphirerapids-cpu2026-0.902-speed-20260121.cfg --threads 384 --define cores=192 --tune base -o
all --define smt-on --define drop_caches fpspeed
runcpu --nobuild --reportable --iterations 3 --action validate --define default-platform-flags --configfile
ic2025.3-sapphirerapids-cpu2026-0.902-speed-20260121.cfg --threads 384 --define cores=192 --tune base
--output_format all --define smt-on --define drop_caches --nopower --runmode speed --tune base --size
refspeed fpspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.016/templogs/preenv.fpspeed.016.0.log --lognum 016.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026-0.902.0-ic2025p3
```

-----  
6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6748P
vendor_id       : GenuineIntel
```

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### Platform Notes (Continued)

```

cpu family      : 6
model          : 173
stepping       : 1
microcode      : 0x1000405
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores      : 48
siblings       : 96
4 physical ids (chips)
384 processors (hardware threads)
physical id 0: core ids 0-47
physical id 1: core ids 0-47
physical id 2: core ids 0-47
physical id 3: core ids 0-47
physical id 0: apicids 0-95
physical id 1: apicids 128-223
physical id 2: apicids 256-351
physical id 3: apicids 384-479

```

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):                384
On-line CPU(s) list:   0-383
Vendor ID:             GenuineIntel
Model name:            Intel(R) Xeon(R) 6748P
CPU family:            6
Model:                 173
Thread(s) per core:    2
Core(s) per socket:    48
Socket(s):             4
Stepping:              1
CPU(s) scaling MHz:    21%
CPU max MHz:           4100.0000
CPU min MHz:           800.0000
BogoMIPS:              5000.00
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

```

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### Platform Notes (Continued)

```

xtpr pdcn 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 hwp hwp_act_window hwp_epp hwp_pkg_req vnni 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: 9 MiB (192 instances)
L1i cache: 12 MiB (192 instances)
L2 cache: 384 MiB (192 instances)
L3 cache: 768 MiB (4 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-47,192-239
NUMA node1 CPU(s): 48-95,240-287
NUMA node2 CPU(s): 96-143,288-335
NUMA node3 CPU(s): 144-191,336-383
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;
PBR SB-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	9M	12	Data	1	64	1	64
L1i	64K	12M	16	Instruction	1	64	1	64
L2	2M	384M	16	Unified	2	2048	1	64
L3	192M	768M	16	Unified	3	196608	1	64

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### Platform Notes (Continued)

8. numactl --hardware

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

```

available: 4 nodes (0-3)
node 0 cpus: 0-47,192-239
node 0 size: 515607 MB
node 0 free: 514298 MB
node 1 cpus: 48-95,240-287
node 1 size: 516070 MB
node 1 free: 514395 MB
node 2 cpus: 96-143,288-335
node 2 size: 516031 MB
node 2 free: 514628 MB
node 3 cpus: 144-191,336-383
node 3 size: 515986 MB
node 3 free: 514990 MB
node distances:
node  0  1  2  3
  0:  10  21  21  21
  1:  21  10  21  21
  2:  21  21  10  21
  3:  21  21  21  10

```

9. /proc/meminfo

MemTotal: 2113224632 kB

10. who -r

run-level 3 Feb 5 18:24

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 display-manager getty@ irqbalance issue-generator kbdsettings klog lvm2-monitor nscd nvme-fc-boot-connections nvmmf-autoconnect postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore tuned 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

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### Platform Notes (Continued)

```

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
vncserver@
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=5a678bc4-a730-4b05-8b78-acf3aaaa7251
splash=silent
mitigations=auto
quiet
security=apparmor

```

```

-----
14. cpupower frequency-info
analyzing CPU 150:
  current policy: frequency should be within 800 MHz and 4.10 GHz.
                  The governor "performance" may decide which speed to use
                  within this range.

boost state support:
  Supported: yes
  Active: yes

```

```

-----
15. tuned-adm active
  Current active profile: throughput-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                 40
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

```

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### Platform Notes (Continued)

vm.swappiness	10
vm.watermark_boost_factor	15000
vm.watermark_scale_factor	10
vm.zone_reclaim_mode	0

```
-----
17. /sys/kernel/mm/transparent_hugepage
defrag          always defer 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
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   854G   99G  756G  12% /
-----
```

```
-----
21. /sys/devices/virtual/dmi/id
Vendor:          Lenovo
Product:         ThinkSystem SR860 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:
-----
```

(Continued on next page)



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### Platform Notes (Continued)

11x Samsung M321R8GA0PB2-CCPEC 64 GB 2 rank 6400  
18x Samsung M321R8GA0PB2-CCPPC 64 GB 2 rank 6400  
3x 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

### Compiler Version Notes

=====  
C | 811.tealeaf\_s(base) 816.nab\_s(base) 881.neutron\_s(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++ | 803.sph\_exa\_s(base) 857.namd\_s(base) 867.nest\_s(base)  
| 872.marian\_s(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 | 809.cactus\_s(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.  
-----

=====  
Fortran | 800.pot3d\_s(base) 820.cloverleaf\_s(base) 822.palm\_s(base)  
| 849.fotonik3d\_s(base) 865.roms\_s(base)

-----  
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version

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## Compiler Version Notes (Continued)

2025.3.0 Build 20251010  
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## Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both C and C++:

icpx icx

## Base Portability Flags

800.pot3d\_s: -DSPEC\_LP64  
803.sph\_exa\_s: -DSPEC\_LP64  
809.cactus\_s: -DSPEC\_LP64  
811.tealeaf\_s: -DSPEC\_LP64  
816.nab\_s: -DSPEC\_LP64  
820.cloverleaf\_s: -DSPEC\_LP64  
822.palm\_s: -DSPEC\_LP64  
849.fotonik3d\_s: -DSPEC\_LP64  
857.namd\_s: -DSPEC\_LP64  
865.roms\_s: -DSPEC\_LP64  
867.nest\_s: -DSPEC\_LP64  
872.marian\_s: -DSPEC\_LP64  
881.neutron\_s: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

-m64 -std=c18 -Wl,-z,muldefs -xsapphirerapids  
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse  
-funroll-loops -qopt-mem-layout-trans=4 -fiopenmp -DSPEC\_OPENMP  
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

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# SPEC CPU®2026 Floating Point Speed Result

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Lenovo Global Technology

SPECspeed®2026\_fp\_base = 5.19

ThinkSystem SR860 V4  
(2.50 GHz, Intel Xeon 6748P)

SPECspeed®2026\_fp\_peak = Not Run

CPU2026 License: 9017

Test Date: Feb-2026

Test Sponsor: Lenovo Global Technology

Hardware Availability: Nov-2025

Tested by: Lenovo Global Technology

Software Availability: Jan-2026

## Base Optimization Flags (Continued)

C++ benchmarks:

```
803.sph_exa_s: -m64 -std=c++17 -Wl,-z,muldefs -xsaphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc-5.3.0/lib
-ljemalloc
```

857.namd\_s: Same as 803.sph\_exa\_s

867.nest\_s: Same as 803.sph\_exa\_s

```
872.marian_s: -m64 -std=c++17 -Wl,-z,muldefs -xsaphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-pthread -L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

Fortran benchmarks:

```
-m64 -stand f18 -Wl,-z,muldefs -xsaphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -DSPEC_OPENMP -fiopenmp
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

Benchmarks using both C and C++:

```
-m64 -std=c++17 -std=c18 -Wl,-z,muldefs -xsaphirerapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-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-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>



# SPEC CPU®2026 Floating Point Speed Result

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## Lenovo Global Technology

ThinkSystem SR860 V4  
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SPECspeed®2026\_fp\_base = 5.19

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**CPU2026 License:** 9017

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**Test Date:** Feb-2026

**Hardware Availability:** Nov-2025

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