



SPEC CPU®2026 Floating Point Speed Result

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Lenovo Global Technology

SPECspeed®2026_fp_base = 5.81

ThinkSystem SR860 V3
(1.90 GHz, Intel Xeon Platinum 8490H)

SPECspeed®2026_fp_peak = Not Run

CPU2026 License: 9017

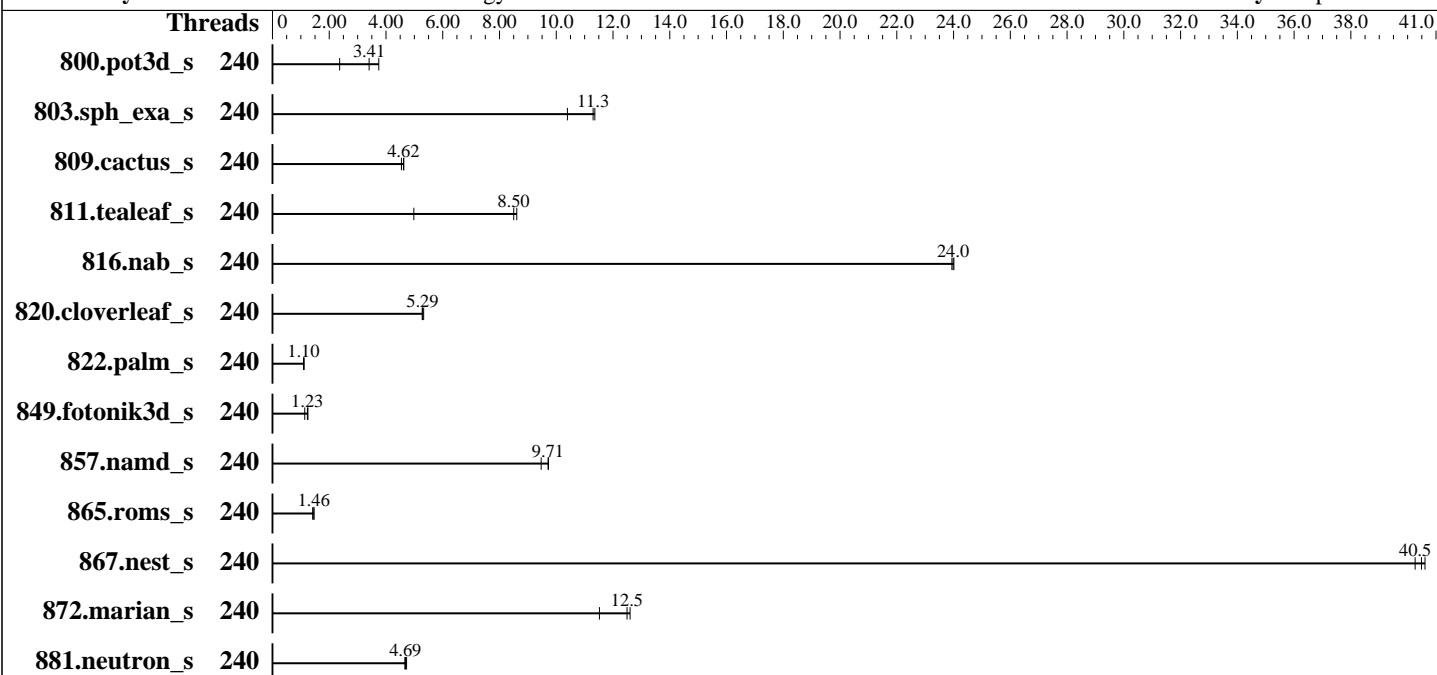
Test Date: May-2026

Test Sponsor: Lenovo Global Technology

Hardware Availability: Jun-2023

Tested by: Lenovo Global Technology

Software Availability: Apr-2026



Hardware

CPU Name: Intel Xeon Platinum 8490H
 Max MHz: 3500
 Nominal: 1900
 Enabled: 240 cores, 4 chips
 Orderable: 2,4 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: 1 TB (32 x 32 GB 2Rx8 PC5-4800B-R)
 Storage: 1 x 480 TB 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 RSE127G 8.50 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
800.pot3d_s	240	180	3.75	198	3.41	284	2.37							
803.sph_exa_s	240	110	11.3	109	11.4	119	10.4							
809.cactus_s	240	243	4.62	242	4.63	247	4.54							
811.tealeaf_s	240	112	4.98	65.5	8.50	64.7	8.61							
816.nab_s	240	46.9	24.0	46.9	24.0	47.0	23.9							
820.cloverleaf_s	240	162	5.28	161	5.33	162	5.29							
822.palm_s	240	1121	1.10	1100	1.12	1120	1.10							
849.fotonik3d_s	240	536	1.23	528	1.25	580	1.14							
857.namd_s	240	149	9.73	150	9.71	153	9.47							
865.roms_s	240	748	1.46	770	1.42	745	1.46							
867.nest_s	240	53.3	40.5	53.6	40.3	53.2	40.6							
872.marian_s	240	93.9	11.5	86.6	12.5	85.9	12.6							
881.neutron_s	240	174	4.69	172	4.73	175	4.67							

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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

Hyper-Threading set to Disabled

DCU Streamer Prefetcher set to Disabled

Misc set to Option4

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

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Fri May 29 18:37:26 2026

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

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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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 18. OS release
 19. Disk information
 20. /sys/devices/virtual/dmi/id
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Platform Notes (Continued)

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`
18:37:26 up 10:11, 1 user, load average: 45.84, 97.46, 163.43
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) 4126728
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) 4126728
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
sh Run353-compliant-ic2026.0-lin-graniterapids-speedfp-base-smt-off-20260429.sh
runcpu --nobuild --iterations=3 --reportable --action validate --define default-platform-flags -c
ic2026.0-graniterapids-cpu2026-1.0.1-speed-20260429.cfg --threads 240 --define cores=240 --tune base -o
all --define drop_caches fpspeed
runcpu --nobuild --iterations 3 --reportable --action validate --define default-platform-flags --configfile
ic2026.0-graniterapids-cpu2026-1.0.1-speed-20260429.cfg --threads 240 --define cores=240 --tune base
--output_format all --define drop_caches --nopower --runmode speed --tune base --size refspeed fpspeed

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Platform Notes (Continued)

```
--nopreenv --note-preenv --logfile $SPEC/tmp/CPU2026.086/templogs/preenv.fpspeed.086.0.log --lognum 086.0
--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
4 physical ids (chips)
240 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 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
```

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
```

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Platform Notes (Continued)

```

Byte Order:                Little Endian
CPU(s):                    240
On-line CPU(s) list:      0-239
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):                4
Stepping:                 8
CPU(s) scaling MHz:      25%
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 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:                11.3 MiB (240 instances)
L1i cache:                7.5 MiB (240 instances)
L2 cache:                 480 MiB (240 instances)
L3 cache:                 450 MiB (4 instances)
NUMA node(s):            4
NUMA node0 CPU(s):       0-59
NUMA node1 CPU(s):       60-119
NUMA node2 CPU(s):       120-179
NUMA node3 CPU(s):       180-239
Vulnerability Gather data sampling: Not affected
Vulnerability Itlb multihit:    Not affected
Vulnerability L1tf:          Not affected

```

(Continued on next page)



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Platform Notes (Continued)

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 SW sequence; 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	11.3M	12	Data	1	64	1	64
L1i	32K	7.5M	8	Instruction	1	64	1	64
L2	2M	480M	16	Unified	2	2048	1	64
L3	112.5M	450M	15	Unified	3	122880	1	64

8. numactl --hardware

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

```

available: 4 nodes (0-3)
node 0 cpus: 0-59
node 0 size: 257693 MB
node 0 free: 256611 MB
node 1 cpus: 60-119
node 1 size: 258031 MB
node 1 free: 256685 MB
node 2 cpus: 120-179
node 2 size: 257993 MB
node 2 free: 257086 MB
node 3 cpus: 180-239
node 3 size: 257991 MB
node 3 free: 257078 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: 1056471648 kB

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Platform Notes (Continued)

10. `who -r`
`run-level 3 May 29 08:25`

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`
`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=7a0ea09d-0975-48e7-9598-0d39dc424077`
`splash=silent`
`mitigations=auto`
`quiet`
`security=apparmor`

14. `cpupower frequency-info`
`analyzing CPU 12:`
`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`

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Platform Notes (Continued)

```

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+madvise [madvise] never
enabled         [always] madvise 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   892G  157G  736G  18% /

```

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Platform Notes (Continued)

```

-----
20. /sys/devices/virtual/dmi/id
   Vendor:          Lenovo
   Product:         ThinkSystem SR860 V3
   Product Family: ThinkSystem
   Serial:         None

```

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:

```

7x Samsung M321R4GA3BB0-CQKDG 32 GB 2 rank 4800
13x Samsung M321R4GA3BB0-CQKEG 32 GB 2 rank 4800
5x Samsung M321R4GA3BB0-CQKMG 32 GB 2 rank 4800
7x Samsung M321R4GA3BB0-CQKVG 32 GB 2 rank 4800

```

22. BIOS

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

```

BIOS Vendor:      Lenovo
BIOS Version:    RSE127G-8.50
BIOS Date:       05/15/2026
BIOS Revision:   8.50
Firmware Revision: 8.10

```

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 2026.0.0 Build 20260331
Copyright (C) 1985-2026 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 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.

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SPECspeed®2026_fp_base = 5.81

ThinkSystem SR860 V3
(1.90 GHz, Intel Xeon Platinum 8490H)

SPECspeed®2026_fp_peak = Not Run

CPU2026 License: 9017

Test Date: May-2026

Test Sponsor: Lenovo Global Technology

Hardware Availability: Jun-2023

Tested by: Lenovo Global Technology

Software Availability: Apr-2026

Compiler Version Notes (Continued)

=====
C++, C | 809.cactus_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.
=====

=====
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
2026.0.0 Build 20260331
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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 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 -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
-xgraniterapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto

(Continued on next page)



SPEC CPU®2026 Floating Point Speed Result

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Base Optimization Flags (Continued)

C++ benchmarks (continued):

```
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -pthread
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

Fortran benchmarks:

```
-m64 -stand f18 -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 -DSPEC_OPENMP
-fiopenmp -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 -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -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>

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

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