



SPEC CPU®2026 Floating Point Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026_fp_base = 12.3

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_fp_peak = 12.8

CPU2026 License: 6573

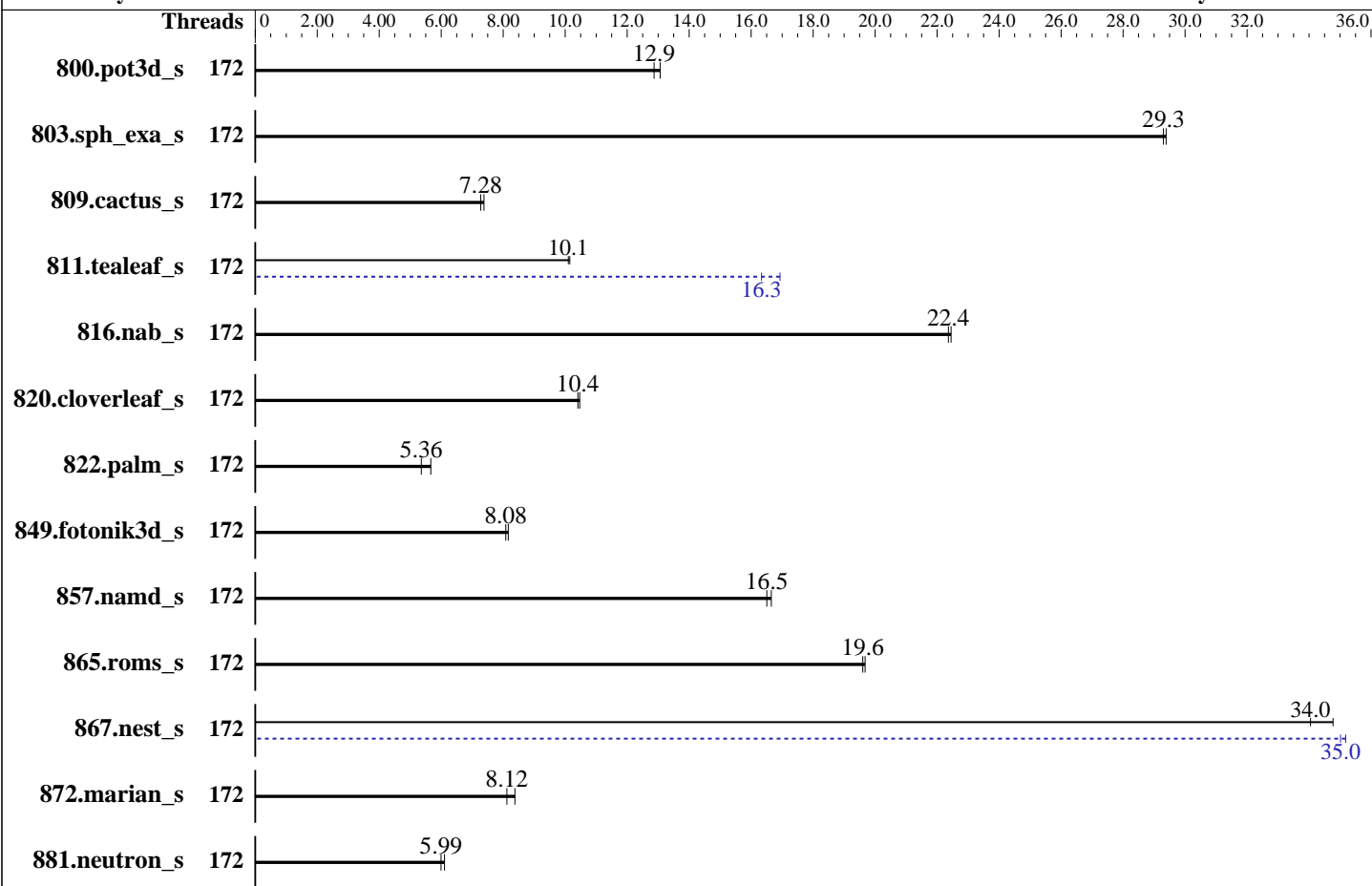
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Mar-2025

Tested by: Dell Inc.

Software Availability: Nov-2025



Hardware

CPU Name: Intel Xeon 6787P
 Max MHz: 3800
 Nominal: 2000
 Enabled: 172 cores, 2 chips
 Orderable: 1,2 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: 1 TB (16 x 64 GB 2Rx4 PC5-6400B-R)
 Storage: 120 GB on tmpfs
 Cooling: Air
 Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP6
 6.4.0-150600.21-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: Version 1.6.4 released Nov-2025
 File System: tmpfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 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	172	<u>52.3</u>	<u>12.9</u>	51.5	13.1			172	<u>52.3</u>	<u>12.9</u>	51.5	13.1		
803.sph_exa_s	172	42.1	29.4	<u>42.2</u>	<u>29.3</u>			172	42.1	29.4	<u>42.2</u>	<u>29.3</u>		
809.cactus_s	172	<u>154</u>	<u>7.28</u>	152	7.38			172	<u>154</u>	<u>7.28</u>	152	7.38		
811.tealeaf_s	172	<u>55.1</u>	<u>10.1</u>	54.9	10.1			172	<u>34.1</u>	<u>16.3</u>	32.9	16.9		
816.nab_s	172	<u>50.3</u>	<u>22.4</u>	50.2	22.4			172	<u>50.3</u>	<u>22.4</u>	50.2	22.4		
820.cloverleaf_s	172	<u>82.3</u>	<u>10.4</u>	81.9	10.5			172	<u>82.3</u>	<u>10.4</u>	81.9	10.5		
822.palm_s	172	<u>229</u>	<u>5.36</u>	217	5.66			172	<u>229</u>	<u>5.36</u>	217	5.66		
849.fotonik3d_s	172	80.8	8.16	<u>81.6</u>	<u>8.08</u>			172	80.8	8.16	<u>81.6</u>	<u>8.08</u>		
857.namd_s	172	87.2	16.7	<u>88.0</u>	<u>16.5</u>			172	87.2	16.7	<u>88.0</u>	<u>16.5</u>		
865.roms_s	172	55.4	19.7	<u>55.6</u>	<u>19.6</u>			172	55.4	19.7	<u>55.6</u>	<u>19.6</u>		
867.nest_s	172	<u>63.4</u>	<u>34.0</u>	62.1	34.8			172	61.4	35.2	<u>61.7</u>	<u>35.0</u>		
872.marian_s	172	129	8.38	<u>133</u>	<u>8.12</u>			172	129	8.38	<u>133</u>	<u>8.12</u>		
881.neutron_s	172	<u>136</u>	<u>5.99</u>	133	6.11			172	<u>136</u>	<u>5.99</u>	133	6.11		

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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 = "/mnt/ramdisk/cpu2026-RC2/lib"
MALLOCONF = "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>
Benchmark run from a 120 GB ramdisk created with the cmd: "mount -t tmpfs -o size=120G tmpfs /mnt/ramdisk"



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Platform Notes

BIOS Settings:

Logical Processor : Disabled

System Profile : Custom

CPU Power Management : Maximum Performance

C1E : Disabled

C-States : Autonomous

Latency Optimized Mode : Enabled

Energy Efficient Policy : Performance

DIMM Self Healing -

on Uncorrectable Memory Error : Disabled

Sysinfo program /mnt/ramdisk/cpu2026-RC2/bin/sysinfo

Rev: 069f95da7e7f5d81b2ce48a82150e54f

running on W409208-R770 Thu Feb 5 16:17:18 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 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. sysctl
15. /sys/kernel/mm/transparent_hugepage
16. /sys/kernel/mm/transparent_hugepage/khugepaged
17. OS release
18. Disk information
19. /sys/devices/virtual/dmi/id
20. dmidecode
21. BIOS

1. uname -srvm

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Platform Notes (Continued)

Linux 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86_64

```

-----
2. w
   16:17:18 up 1:27, 2 users, load average: 0.12, 0.15, 12.70
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
root      tty1     -             14:58    30.00s 1.08s  0.00s /bin/bash
/home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format html,pdf,txt

```

```

-----
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) 4125015
   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) 4125015
   virtual memory          (kbytes, -v) unlimited
   file locks              (-x) unlimited

```

```

-----
5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize=31
   login -- root
   -bash
   /bin/bash /home/DellFiles/bin/DELL_speed.sh
   /bin/bash /home/DellFiles/bin/dell-run-main.sh speed
   /bin/bash /home/DellFiles/bin/dell-run-main.sh speed
   /bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format
   html,pdf,txt
   /bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format
   html,pdf,txt
   runcpu --nobuild --reportable --action validate --define default-platform-flags -c
   ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 172 --define cores=172 --tune base,peak
   -o all --define drop_caches --iterations 2 --define DL-VERS=7.0_T01 --output_format html,pdf,txt fpspeed

```

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Platform Notes (Continued)

```
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 172 --define cores=172 --tune base,peak
--output_format all --define drop_caches --iterations 2 --define DL-VERS=7.0_T01 --output_format
html,pdf,txt --nopower --runmode speed --tune base:peak --size refspeed fpspeed --nopreenv --note-preenv
--logfile $SPEC/tmp/CPU2026.001/templogs/preenv.fpspeed.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026-RC2
```

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6787P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 173
stepping        : 1
microcode       : 0x10003f3
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores       : 86
siblings        : 86
```

2 physical ids (chips)

172 processors (hardware threads)

physical id 0: core ids 0-42,64-106

physical id 1: core ids 0-42,64-106

physical id 0: apicids

0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,64,66,68,70,72,74,76,78,80,82,84,128,130,132,134,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170,172,174,176,178,180,182,184,186,188,190,192,194,196,198,200,202,204,206,208,210,212

physical id 1: apicids

256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,304,306,308,310,312,314,316,318,320,322,324,326,328,330,332,334,336,338,340,384,386,388,390,392,394,396,398,400,402,404,406,408,410,412,414,416,418,420,422,424,426,428,430,432,434,436,438,440,442,444,446,448,450,452,454,456,458,460,462,464,466,468

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 2.39.3:

```
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):            172
On-line CPU(s) list: 0-171
Vendor ID:         GenuineIntel
BIOS Vendor ID:   Intel
```

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Platform Notes (Continued)

Model name: Intel(R) Xeon(R) 6787P
 BIOS Model name: Intel(R) Xeon(R) 6787P CPU @ 2.0GHz
 BIOS CPU family: 179
 CPU family: 6
 Model: 173
 Thread(s) per core: 1
 Core(s) per socket: 86
 Socket(s): 2
 Stepping: 1
 BogoMIPS: 4000.00
 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 hle avx2 smep bmi2 erms invpcid
 rtm cqm rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt
 clwb intel_pt avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec
 xgetbv1 xsavec 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: 8.1 MiB (172 instances)
 L1i cache: 10.8 MiB (172 instances)
 L2 cache: 344 MiB (172 instances)
 L3 cache: 672 MiB (2 instances)
 NUMA node(s): 2
 NUMA node0 CPU(s): 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, 120, 122, 124, 126, 128, 13
 0, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164
 , 166, 168, 170
 NUMA node1 CPU(s): 1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49
 , 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95
 , 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 13
 1, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165
 , 167, 169, 171
 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	8.1M	12	Data	1	64	1	64
L1i	64K	10.8M	16	Instruction	1	64	1	64
L2	2M	344M	16	Unified	2	2048	1	64
L3	336M	672M	16	Unified	3	344064	1	64

8. numactl --hardware

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

available: 2 nodes (0-1)

node 0 cpus:

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, 120, 122, 124, 126, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170

node 0 size: 515569 MB

node 0 free: 500659 MB

node 1 cpus:

1, 3, 5, 7, 9, 11, 13, 15, 17, 19, 21, 23, 25, 27, 29, 31, 33, 35, 37, 39, 41, 43, 45, 47, 49, 51, 53, 55, 57, 59, 61, 63, 65, 67, 69, 71, 73, 75, 77, 79, 81, 83, 85, 87, 89, 91, 93, 95, 97, 99, 101, 103, 105, 107, 109, 111, 113, 115, 117, 119, 121, 123, 125, 127, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 161, 163, 165, 167, 169, 171

node 1 size: 515710 MB

node 1 free: 500888 MB

node distances:

```
node  0  1
0:   10  21
1:   21  10
```

9. /proc/meminfo

MemTotal: 1056030148 kB

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Platform Notes (Continued)

10. who -r
run-level 3 Feb 5 14:50

11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)
Default Target Status
multi-user running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	apparmor auditd cron firewalld getty@ irqbalance issue-generator kbdsettings kdump kdump-early kdump-notify nvme-fc-boot-connections nvme-autoconnect postfix purge-kernels rollback sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime	systemd-remount-fs
disabled	boot-sysctl ca-certificates chrony-wait chronyd console-getty debug-shell ebttables fsidd grub2-once haveged issue-add-ssh-keys kexec-load lunmask nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd serial-getty@ 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-6.4.0-150600.21-default
root=UUID=9f371995-0f0f-4242-a0da-7946c498436b
splash=silent
resume=/dev/disk/by-uuid/6f9986a8-df9a-4d59-9d87-5688414dc3e7
mitigations=auto
quiet
security=apparmor
crashkernel=323M,high
crashkernel=72M,low

14. 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

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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

```

```

-----
15. /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

```

```

-----
16. /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

```

```

-----
17. OS release
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP6

```

```

-----
18. Disk information
SPEC is set to: /mnt/ramdisk/cpu2026-RC2
Filesystem      Type      Size  Used Avail Use% Mounted on
tmpfs           tmpfs     120G   13G  108G  11% /mnt/ramdisk

```

```

-----
19. /sys/devices/virtual/dmi/id
Vendor:         Dell Inc.
Product:        PowerEdge R770
Product Family: PowerEdge
Serial:         W409208

```

```

-----
20. dmidecode
Additional information from dmidecode 3.4 follows.  WARNING: Use caution when you interpret this section.

```

(Continued on next page)



SPEC CPU®2026 Floating Point Speed Result

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Dell Inc.

SPECspeed®2026_fp_base = 12.3

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_fp_peak = 12.8

CPU2026 License: 6573
Test Sponsor: Dell Inc.
Tested by: Dell Inc.

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

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:

14x 002C069D002C MTC40F2046S1RC64BD1 USFF 64 GB 2 rank 6400
2x 002C069D002C MTC40F2046S1RC64BD2 QSFF 64 GB 2 rank 6400

21. BIOS

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

BIOS Vendor: Dell Inc.
BIOS Version: 1.6.4
BIOS Date: 11/02/2025
BIOS Revision: 1.6

Compiler Version Notes

=====
C | 811.tealeaf_s(base, peak) 816.nab_s(base, peak) 881.neutron_s(base, peak)
=====
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, peak) 857.namd_s(base, peak) 867.nest_s(base, peak) 872.marian_s(base, peak)
=====
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, peak)
=====
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2025.3.0 Build 20251010
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=====

=====
Fortran | 800.pot3d_s(base, peak) 820.cloverleaf_s(base, peak)
=====

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Compiler Version Notes (Continued)

```
| 822.palm_s(base, peak) 849.fotonik3d_s(base, peak) 865.roms_s(base,  
| peak)
```

Intel(R) Fortran 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

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
```



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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 -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

C++ benchmarks:

```
803.sph_exa_s: -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
-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 -xgraniterapids
-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 -xgraniterapids
-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 -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
```

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

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Software Availability: Nov-2025

Peak Compiler Invocation (Continued)

Fortran benchmarks:

ifx

Benchmarks using both C and C++:

icpx icx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

811.tealeaf_s: -m64 -std=c18 -Wl,-z,muldefs -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

816.nab_s: basepeak = yes

881.neutron_s: basepeak = yes

C++ benchmarks:

803.sph_exa_s: basepeak = yes

857.namd_s: basepeak = yes

867.nest_s: -m64 -std=c++17 -Wl,-z,muldefs -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

872.marian_s: basepeak = yes

Fortran benchmarks:

800.pot3d_s: basepeak = yes

820.cloverleaf_s: basepeak = yes

822.palm_s: basepeak = yes

849.fotonik3d_s: basepeak = yes

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Peak Optimization Flags (Continued)

865.roms_s: basepeak = yes

Benchmarks using both C and C++:

809.cactus_s: basepeak = yes

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

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

<http://www.spec.org/cpu2026/results/flags/Dell-Platform-Flags-PowerEdge-Intel-Xeon-v1.19.html>

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

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

<http://www.spec.org/cpu2026/results/flags/Dell-Platform-Flags-PowerEdge-Intel-Xeon-v1.19.xml>

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