



SPEC CPU®2026 Floating Point Speed Result

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Dell Inc.

SPECspeed®2026_fp_base = 13.4

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026_fp_peak = 13.7

CPU2026 License: 6573

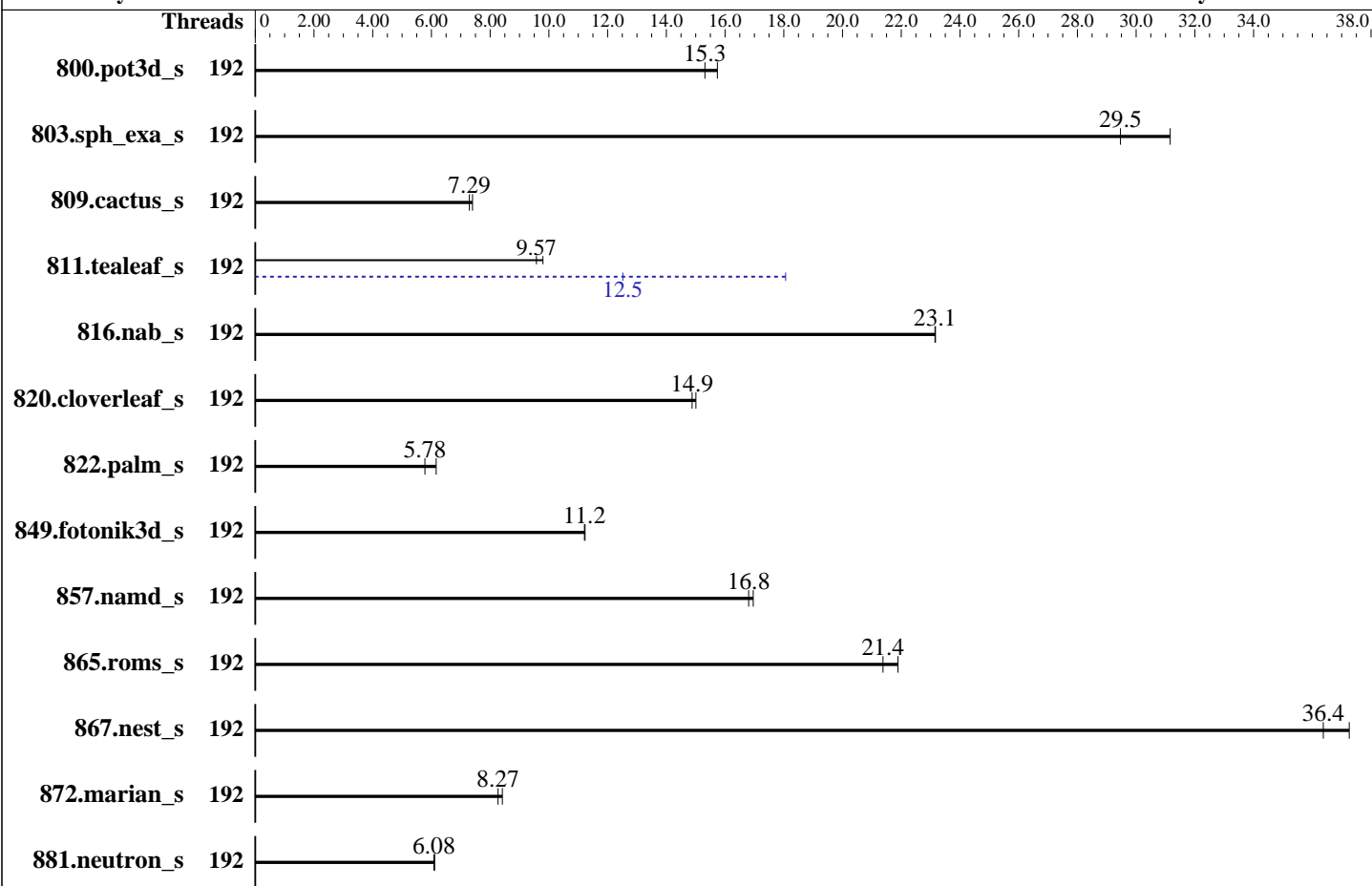
Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Dec-2025

Tested by: Dell Inc.

Software Availability: Nov-2025



Hardware

CPU Name: Intel Xeon 6952P
 Max MHz: 3900
 Nominal: 2100
 Enabled: 192 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: 480 MB I+D on chip per chip
 Other: None
 Memory: 768 GB (24 x 32 GB 2Rx8 PC5-6400B-R)
 Storage: 130 GB on tmpfs
 Cooling: Air
 Other: None

Software

OS: SUSE Linux Enterprise Server 16.0
 6.12.0-160000.5-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 1.1.6 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	192	42.8	15.7	<u>43.9</u>	<u>15.3</u>			192	42.8	15.7	<u>43.9</u>	<u>15.3</u>		
803.sph_exa_s	192	<u>42.0</u>	<u>29.5</u>	39.7	31.2			192	<u>42.0</u>	<u>29.5</u>	39.7	31.2		
809.cactus_s	192	152	7.40	<u>154</u>	<u>7.29</u>			192	152	7.40	<u>154</u>	<u>7.29</u>		
811.tealeaf_s	192	<u>58.2</u>	<u>9.57</u>	56.9	9.80			192	<u>44.5</u>	<u>12.5</u>	30.8	18.1		
816.nab_s	192	<u>48.6</u>	<u>23.1</u>	48.6	23.2			192	<u>48.6</u>	<u>23.1</u>	48.6	23.2		
820.cloverleaf_s	192	<u>57.6</u>	<u>14.9</u>	57.1	15.0			192	<u>57.6</u>	<u>14.9</u>	57.1	15.0		
822.palm_s	192	<u>213</u>	<u>5.78</u>	199	6.16			192	<u>213</u>	<u>5.78</u>	199	6.16		
849.fotonik3d_s	192	58.8	11.2	<u>58.9</u>	<u>11.2</u>			192	58.8	11.2	<u>58.9</u>	<u>11.2</u>		
857.namd_s	192	<u>86.4</u>	<u>16.8</u>	85.6	17.0			192	<u>86.4</u>	<u>16.8</u>	85.6	17.0		
865.roms_s	192	49.8	21.9	<u>51.0</u>	<u>21.4</u>			192	49.8	21.9	<u>51.0</u>	<u>21.4</u>		
867.nest_s	192	<u>59.4</u>	<u>36.4</u>	58.0	37.3			192	<u>59.4</u>	<u>36.4</u>	58.0	37.3		
872.marian_s	192	129	8.42	<u>131</u>	<u>8.27</u>			192	129	8.42	<u>131</u>	<u>8.27</u>		
881.neutron_s	192	133	6.11	<u>134</u>	<u>6.08</u>			192	133	6.11	<u>134</u>	<u>6.08</u>		

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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/cpu2026rc2/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 130 GB ramdisk created with the cmd: "mount -t tmpfs -o size=130G tmpfs /mnt/ramdisk"



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Platform Notes

BIOS Settings:

Logical Processor : Disabled

LLC Prefetch : Enabled

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/cpu2026rc2/bin/sysinfo

Rev: 069f95da7e7f5d81b2ce48a82150e54f

running on R7703AP-R770AP Sat Feb 7 19:16:04 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. Systemd service manager version: systemd 257 (257.7+suse.19.ga0dfd5de4c)
 11. Services, from systemctl list-unit-files
 12. Linux kernel boot-time arguments, from /proc/cmdline
 13. cpupower frequency-info
 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
- -----

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Platform Notes (Continued)

1. `uname -srv`
Linux 6.12.0-160000.5-default #1 SMP PREEMPT_DYNAMIC Wed Sep 10 15:26:25 UTC 2025 (3545bbd) x86_64

2. `w`
19:16:04 up 4:06, 1 user, load average: 0.25, 0.13, 0.07
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 15:11 26.00s 1.18s ? /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`
real-time non-blocking time (microseconds, -R) unlimited
core file size (blocks, -c) unlimited
data seg size (kbytes, -d) unlimited
scheduling priority (-e) 0
file size (blocks, -f) unlimited
pending signals (-i) 3089561
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) 3089561
virtual memory (kbytes, -v) unlimited
file locks (-x) unlimited

5. `sysinfo process ancestry`
/usr/lib/systemd/systemd --switched-root --system --deserialize=47
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

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Platform Notes (Continued)

```
ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 192 --define cores=192 --tune base,peak
-o all --define drop_caches --iterations 2 --define DL-VERS=7.0_T01 --output_format html,pdf,txt fpspeed
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 192 --define cores=192 --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/cpu2026rc2
```

```
6. /proc/cpuinfo
model name      : Intel(R) Xeon(R) 6952P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x10003f3
bugs           : spectre_v1 spectre_v2 spec_store_bypass swaps bhi spectre_v2_user
cpu cores      : 96
siblings       : 96
2 physical ids (chips)
192 processors (hardware threads)
physical id 0: core ids 0-31,64-95,128-159
physical id 1: core ids 0-31,64-95,128-159
physical id 0: apicids
0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30,32,34,36,38,40,42,44,46,48,50,52,54,56,58,60,62,128,130,132,13
4,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,170,172,174,176,178,180,182,184,186
,188,190,256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,
304,306,308,310,312,314,316,318
physical id 1: apicids
512,514,516,518,520,522,524,526,528,530,532,534,536,538,540,542,544,546,548,550,552,554,556,558,560,562,5
64,566,568,570,572,574,640,642,644,646,648,650,652,654,656,658,660,662,664,666,668,670,672,674,676,678,68
0,682,684,686,688,690,692,694,696,698,700,702,768,770,772,774,776,778,780,782,784,786,788,790,792,794,796
,798,800,802,804,806,808,810,812,814,816,818,820,822,824,826,828,830
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 2.41.1:
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):             192
```

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Platform Notes (Continued)

```

On-line CPU(s) list:          0-191
Vendor ID:                   GenuineIntel
Model name:                  Intel(R) Xeon(R) 6952P
CPU family:                  6
Model:                       173
Thread(s) per core:         1
Core(s) per socket:         96
Socket(s):                   2
Stepping:                    1
BogoMIPS:                    4200.00
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 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 hfi vnmi avx512vbmi
                             umip pku ospke waitpkg avx512_vbmi2 gfni vaes vpclmulqdq
                             avx512_vnni avx512_bitalg 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:                    960 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, 1
                             26, 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
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, 1
                             27, 129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159
                             , 161, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191
Vulnerability Gather data sampling:  Not affected

```

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Platform Notes (Continued)

Vulnerability Indirect target selection: 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/swapgs barriers and __user pointer sanitization
 Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; PBRSE-eIBRS Not affected; BHI BHI_DIS_S
 Vulnerability Srbds: Not affected
 Vulnerability Tsa: 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	480M	960M	16	Unified	3	491520	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, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190

node 0 size: 385660 MB

node 0 free: 378683 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, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191

node 1 size: 386955 MB

node 1 free: 362332 MB

node distances:

node	0	1
0:	10	21
1:	21	10

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Platform Notes (Continued)

9. /proc/meminfo
MemTotal: 791158688 kB

'who -r' did not return a run level

10. Systemd service manager version: systemd 257 (257.7+suse.19.ga0dfd5de4c)
Default Target Status
multi-user running

11. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	NetworkManager NetworkManager-dispatcher NetworkManager-wait-online audit-rules auditd bluetooth chronyd dbus-broker firewalld gdm getty@ irqbalance issue-generator kbdsettings klog lvm2-monitor nvme-fc-boot-connections nvme-autoconnect rollback rsyslog smartd soft-reboot-cleanup sshd systemd-pstore wpa_supplicant wtmpdb-update-boot
enabled-runtime	systemd-remount-fs
disabled	accounts-daemon blk-availability bluetooth-mesh boot-sysctl ca-certificates ca-certificates-setup chrony-wait console-getty cups debug-shell dnsmasq gnome-remote-desktop gnome-remote-desktop-configuration gpm grub2-once hwloc-dump-hwdata issue-add-ssh-keys kea-ctrl-agent kea-dhcp-ddns kea-dhcp4 kea-dhcp6 kernel-sysctl kexec-load lastlog2-import lunmask lvm-devices-import man-db-create multipathd named nftables nis-domainname pkcs11_eventmgr rpmconfigcheck rsyncd rtkit-daemon serial-getty@ setup-systemd-proxy-env smartd_generate_opts snmpd snmptrapd speech-dispatcherd systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysext systemd-time-wait-sync systemd-timesyncd systemd-udev-load-credentials udisks2 upower wpa_supplicant@
indirect	pcscd systemd-userdbd

12. Linux kernel boot-time arguments, from /proc/cmdline

BOOT_IMAGE=/boot/vmlinuz-6.12.0-160000.5-default
root=UUID=0b344ecf-2e5a-4bf3-b6c0-aecf8a6f67c0
mitigations=auto
quiet
security=selinux
selinux=1

13. cpupower frequency-info

analyzing CPU 172:
Unable to determine current policy
boost state support:
Supported: yes

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Platform Notes (Continued)

Active: yes

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
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 16.0

```

(Continued on next page)



SPEC CPU®2026 Floating Point Speed Result

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SPECspeed®2026_fp_base = 13.4

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026_fp_peak = 13.7

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

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

Platform Notes (Continued)

18. Disk information

SPEC is set to: /mnt/ramdisk/cpu2026rc2

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
tmpfs	tmpfs	130G	13G	118G	10%	/mnt/ramdisk

19. /sys/devices/virtual/dmi/id

```
Vendor:      Dell Inc.
Product:    PowerEdge R770AP
Product Family: PowerEdge
Serial:     R7703AP
```

20. 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:

```
2x 00AD063200AD HMC888AHBRA286N 32 GB 2 rank 6400
2x 00AD063200AD HMC888AHBRA477N 32 GB 2 rank 6400
15x 00CE063200CE M321R4GA3EB2-CCPPF 32 GB 2 rank 6400
2x 00CE063200CE M321R4GA3PB1-CCPQC 32 GB 2 rank 6400
3x 00CE063200CE M321R4GA3PB2-CCPKC 32 GB 2 rank 6400
```

21. BIOS

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

```
BIOS Vendor:    Dell Inc.
BIOS Version:   1.1.6
BIOS Date:      11/06/2025
BIOS Revision:  1.1
```

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.  
=====
```

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Hardware Availability: Dec-2025
Software Availability: Nov-2025

Compiler Version Notes (Continued)

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
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.

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

(Continued on next page)



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Tested by: Dell Inc.

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Hardware Availability: Dec-2025
Software Availability: Nov-2025

Base Portability Flags (Continued)

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 -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

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Test Date: Feb-2026

Hardware Availability: Dec-2025

Software Availability: Nov-2025

Base Optimization Flags (Continued)

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

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:

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Test Date: Feb-2026

Hardware Availability: Dec-2025

Software Availability: Nov-2025

Peak Optimization Flags (Continued)

803.sph_exa_s: basepeak = yes

857.namd_s: basepeak = yes

867.nest_s: basepeak = yes

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

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-v1.19a.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-v1.19a.xml>

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