



# SPEC CPU®2026 Floating Point Speed Result

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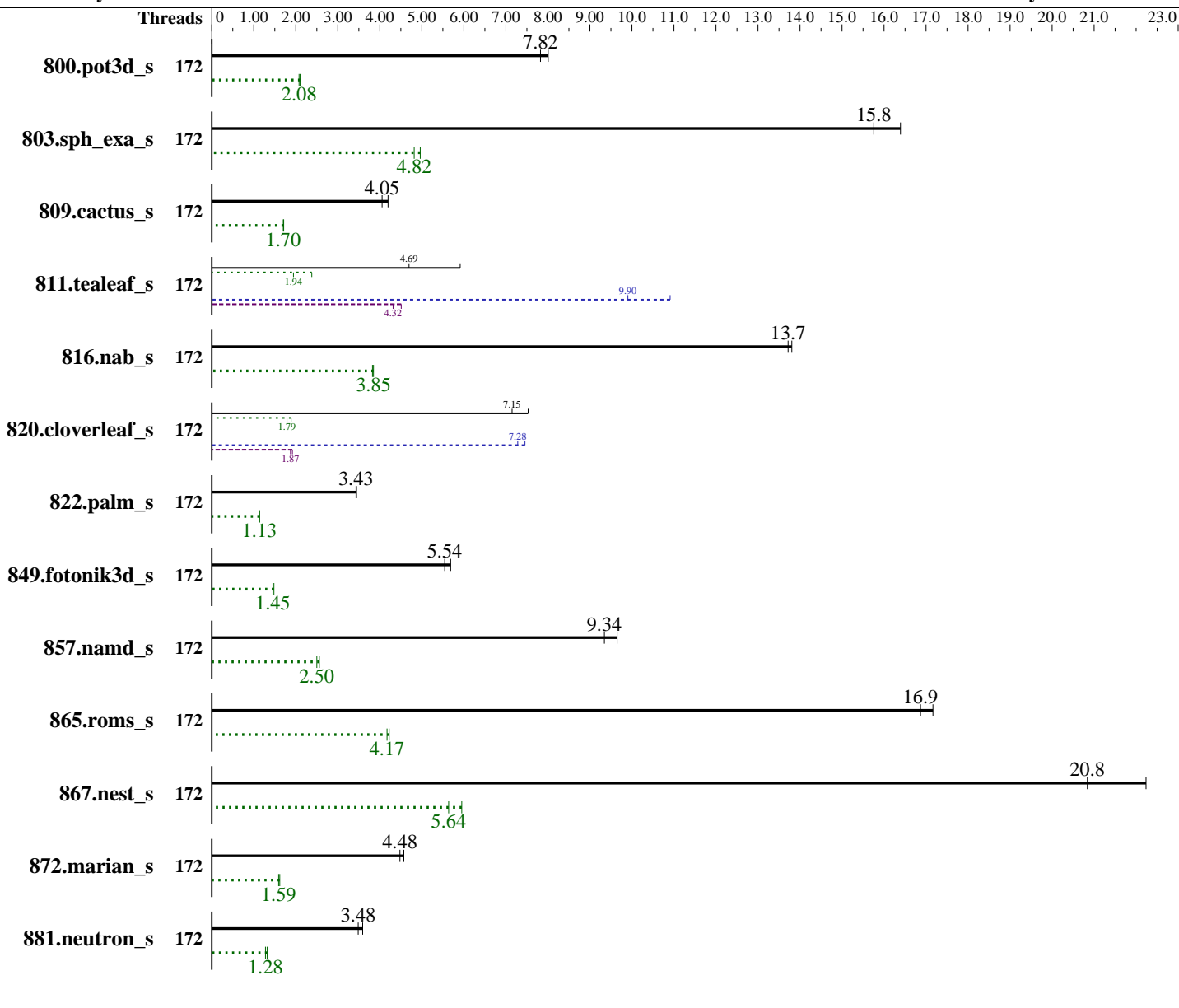
## Dell Inc.

## PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026\_fp\_base = 7.47  
 SPECspeed®2026\_fp\_energy\_base = 2.28  
 SPECspeed®2026\_fp\_peak = 7.92  
 SPECspeed®2026\_fp\_energy\_peak = 2.43

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

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



### Hardware

CPU Name: Intel Xeon 6787P  
 Max MHz: 3800  
 Nominal: 2000  
 Enabled: 172 cores, 2 chips  
 Orderable: 1,2 chips

(Continued on next page)

### Software

OS: SUSE Linux Enterprise Server 15 SP6  
 6.4.0-150600.21-default

(Continued on next page)



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### Hardware (Continued)

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, running at 4800)  
 Storage: 120 GB on tmpfs  
 Cooling: Air  
 Other: CPU Cooling : Air

### Software (Continued)

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 and OS set to balanced performance

### Power

Max. Power (W): 909.7  
 Idle Power (W): 177.51  
 Min. Temperature (C): 21.50  
 Elevation (m): 255  
 Line Standard: 220 V / 50 Hz / 1 phase / 3 wires  
 Provisioning: Line-powered

### Power Settings

Management FW: Version 1.20.80.50 of IDRAC  
 Memory Mode: Normal

### Power-Relevant Hardware

Power Supply: 1 x 1500 W (non-redundant)  
 Details: 1500W Titanium Power supply DPN 1PKMH  
 Backplane: 8 x EDSFF E3.S NVMe  
 Other Storage: 1 x NVMe E3 Drive  
 Storage Model #s: NVMe PM1745 MU E3.S 3.2TB  
 NICs Installed: 1 x Intel E610-XT2 @ 10 Gbps (Dell P/N FC0HK)  
 NICs Enabled (FW/OS): 2 / 1  
 NICs Connected/Speed: 1 @ 10 Gb  
 Other HW Model #s: 6 x performance fans

### Power Analyzer

Power Analyzer: 192.168.0.5:8888  
 Hardware Vendor: Yokogawa Meters and Instruments Corporation  
 Model: YokogawaWT310E  
 Serial Number: T11733386  
 Input Connection: Default  
 Metrology Institute: Tescom  
 Calibration By: NIST  
 Calibration Label: T126623  
 Calibration Date: 13-Aug-2025  
 PTDaemon® Version: 1.11.4 (5bcc369b; 2026-01-19)  
 Setup Description: Connected to PSU1  
 Current Ranges Used: 10A  
 Voltage Range Used: 300V

### Temperature Meter

Temperature Meter: 192.168.0.5:8889  
 Hardware Vendor: Digi International Inc.  
 Model: DigiWATCHPORT\_H  
 Serial Number: W13370940  
 Input Connection: USB  
 PTDaemon Version: 1.11.4 (5bcc369b; 2026-01-19)  
 Setup Description: 25 mm in front of SUT main airflow intake



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### Base Results Table

Benchmark	Threads	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
800.pot3d_s	172	<b>86.0</b>	<b>7.82</b>	<b>60.8</b>	<b>2.08</b>	<b>706</b>	<b>857</b>	84.1	8.01	60.0	2.10	714	847						
803.sph_exa_s	172	<b>78.6</b>	<b>15.8</b>	<b>43.5</b>	<b>4.82</b>	<b>553</b>	<b>714</b>	75.5	16.4	42.2	4.96	559	722						
809.cactus_s	172	267	4.20	118	1.71	442	538	<b>277</b>	<b>4.05</b>	<b>119</b>	<b>1.70</b>	<b>430</b>	<b>534</b>						
811.tealeaf_s	172	94.2	5.91	58.7	2.38	623	672	<b>119</b>	<b>4.69</b>	<b>71.8</b>	<b>1.94</b>	<b>605</b>	<b>670</b>						
816.nab_s	172	<b>82.1</b>	<b>13.7</b>	<b>50.2</b>	<b>3.85</b>	<b>611</b>	<b>627</b>	81.6	13.8	50.5	3.82	619	632						
820.cloverleaf_s	172	114	7.53	88.2	1.89	775	802	<b>120</b>	<b>7.15</b>	<b>93.1</b>	<b>1.79</b>	<b>776</b>	<b>806</b>						
822.palm_s	172	356	3.44	183	1.14	512	628	<b>358</b>	<b>3.43</b>	<b>183</b>	<b>1.13</b>	<b>511</b>	<b>632</b>						
849.fotonik3d_s	172	<b>119</b>	<b>5.54</b>	<b>84.7</b>	<b>1.45</b>	<b>711</b>	<b>793</b>	116	5.69	83.3	1.48	718	800						
857.namd_s	172	<b>155</b>	<b>9.34</b>	<b>106</b>	<b>2.50</b>	<b>684</b>	<b>712</b>	151	9.65	104	2.56	690	718						
865.roms_s	172	63.5	17.2	54.8	4.22	863	905	<b>64.6</b>	<b>16.9</b>	<b>55.5</b>	<b>4.17</b>	<b>859</b>	<b>900</b>						
867.nest_s	172	<b>104</b>	<b>20.8</b>	<b>68.6</b>	<b>5.64</b>	<b>662</b>	<b>773</b>	97.1	22.2	65.0	5.95	669	772						
872.marian_s	172	<b>242</b>	<b>4.48</b>	<b>101</b>	<b>1.59</b>	<b>420</b>	<b>845</b>	237	4.57	99.7	1.62	421	847						
881.neutron_s	172	227	3.59	99.9	1.32	440	793	<b>234</b>	<b>3.48</b>	<b>103</b>	<b>1.28</b>	<b>440</b>	<b>742</b>						

SPECSpeed®2026\_fp\_base = 7.47

SPECSpeed®2026\_fp\_energy\_base = 2.28

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

### Peak Results Table

Benchmark	Threads	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
800.pot3d_s	172	<b>86.0</b>	<b>7.82</b>	<b>60.8</b>	<b>2.08</b>	<b>706</b>	<b>857</b>	84.1	8.01	60.0	2.10	714	847						
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809.cactus_s	172	267	4.20	118	1.71	442	538	<b>277</b>	<b>4.05</b>	<b>119</b>	<b>1.70</b>	<b>430</b>	<b>534</b>						
811.tealeaf_s	172	51.1	10.9	31.0	4.51	607	651	<b>56.2</b>	<b>9.90</b>	<b>32.4</b>	<b>4.32</b>	<b>575</b>	<b>650</b>						
816.nab_s	172	<b>82.1</b>	<b>13.7</b>	<b>50.2</b>	<b>3.85</b>	<b>611</b>	<b>627</b>	81.6	13.8	50.5	3.82	619	632						
820.cloverleaf_s	172	115	7.45	86.8	1.92	755	774	<b>118</b>	<b>7.28</b>	<b>88.9</b>	<b>1.87</b>	<b>755</b>	<b>781</b>						
822.palm_s	172	356	3.44	183	1.14	512	628	<b>358</b>	<b>3.43</b>	<b>183</b>	<b>1.13</b>	<b>511</b>	<b>632</b>						
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SPECSpeed®2026\_fp\_peak = 7.92

SPECSpeed®2026\_fp\_energy\_peak = 2.43

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"  
 MALLOC\_CONF = "retain:true"  
 OMP\_STACKSIZE = "192M"



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## 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"

## Platform Notes

BIOS Settings:

- Logical Processor : Disabled
- Virtualization Technology : Disabled
- Hardware Prefetcher : Disabled
- Sub NUMA Cluster : Enabled
- MADT Core Enumeration : Linear
- System Profile : Custom
- CPU Power Management : OS DBPM
- Memory Frequency : Maximum Reliability
- Turbo Boost : Disabled
- Energy Efficient Turbo : Disabled
- Latency Optimized Mode : Enabled
- Energy Efficient Policy : Energy Efficient
- ADDDC Setting : Disabled
- DIMM Self Healing -  
on Uncorrectable Memory Error : Disabled

Sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo  
 Rev: 069f95da7e7f5d81b2ce48a82150e54f  
 running on B2KQ54-R770 Fri Feb 6 01:17:07 2026

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

-----  
 Table of contents  
 -----

1. uname -srvm
2. w
3. Username

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## Platform Notes (Continued)

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. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent\_hugepage
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 6.4.0-150600.21-default #1 SMP PREEMPT\_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09) x86\_64

-----  
 2. w  
 01:17:07 up 9:31, 1 user, load average: 10.23, 28.96, 23.37  
 USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
 root ttyl - 15:47 5:07m 3.62s 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) 4126573  
 max locked memory (kbytes, -l) 8192  
 max memory size (kbytes, -m) unlimited

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### Platform Notes (Continued)

```

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) 4126573
virtual memory             (kbytes, -v) unlimited
file locks                  (-x) unlimited

```

#### 5. sysinfo process ancestry

```

/usr/lib/systemd/systemd --switched-root --system --deserialize=42
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
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 --runmode speed --tune base:peak --size refspeed fpspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.002/templogs/preenv.fpspeed.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /mnt/ramdisk/cpu2026rc2

```

#### 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)

```

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### Platform Notes (Continued)

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,  
 74,76,78,80,82,84,128,130,132,134,136,138,140,142,144,146,148,150,152,154,156,158,160,162,164,166,168,17  
 0,172,174,176,178,180,182,184,186,188,190,192,194,196,198,200,202,204,206,208,210,212

physical id 1: apicids

256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,304,306,3  
 08,310,312,314,316,318,320,322,324,326,328,330,332,334,336,338,340,384,386,388,390,392,394,396,398,400,40  
 2,404,406,408,410,412,414,416,418,420,422,424,426,428,430,432,434,436,438,440,442,444,446,448,450,452,454  
 ,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
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
CPU(s) scaling MHz:    40%
CPU max MHz:           2000.0000
CPU min MHz:           800.0000
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 smx est tm2 ssse3 sdbg fma cx16 xtpr
```

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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 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 xsaves cqm\_llc cqm\_occup\_llc cqm\_mbm\_total  
cqm\_mbm\_local split\_lock\_detect user\_shstk avx\_vnni avx512\_bf16  
wbnoinvd dtherm arat pln pts hwp hwp\_act\_window hwp\_epp hwp\_pkg\_req  
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

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): 4  
NUMA node0 CPU(s): 0-42  
NUMA node1 CPU(s): 43-85  
NUMA node2 CPU(s): 86-128  
NUMA node3 CPU(s): 129-171  
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/swapgs 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	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

(Continued on next page)



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SPECSpeed®2026_fp_peak =	7.92
SPECSpeed®2026_fp_energy_peak =	2.43

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)

8. numactl --hardware

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

```

available: 4 nodes (0-3)
node 0 cpus: 0-42
node 0 size: 257600 MB
node 0 free: 243444 MB
node 1 cpus: 43-85
node 1 size: 258036 MB
node 1 free: 257430 MB
node 2 cpus: 86-128
node 2 size: 258036 MB
node 2 free: 243885 MB
node 3 cpus: 129-171
node 3 size: 257996 MB
node 3 free: 257121 MB
node distances:
node  0  1  2  3
  0:  10  12  21  21
  1:  12  10  21  21
  2:  21  21  10  12
  3:  21  21  12  10

```

9. /proc/meminfo

MemTotal: 1056429864 kB

10. who -r

run-level 3 Feb 5 15:46

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	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager 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

(Continued on next page)



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## Platform Notes (Continued)

```
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
              firewallld 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 udisks2
              vncserver@
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=02b3adac-b4ec-425b-b06d-e66675474f80
splash=silent
mitigations=auto
quiet
security=apparmor
```

### 14. cpupower frequency-info

```
analyzing CPU 17:
  current policy: frequency should be within 800 MHz and 2.00 GHz.
                  The governor "powersave" may decide which speed to use
                  within this range.

boost state support:
  Supported: no
  Active: no
```

### 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
```

(Continued on next page)



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### Platform Notes (Continued)

```
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
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 SP6
```

```
-----
19. Disk information
SPEC is set to: /mnt/ramdisk/cpu2026rc2
Filesystem      Type  Size  Used Avail Use% Mounted on
tmpfs           tmpfs 120G   13G  108G  11% /mnt/ramdisk
```

```
-----
20. /sys/devices/virtual/dmi/id
Vendor:          Dell Inc.
Product:         PowerEdge R770
Product Family: PowerEdge
Serial:          5B2KQ54
```

```
-----
21. dmidecode
Additional information from dmidecode 3.4 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
```

(Continued on next page)



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## Platform Notes (Continued)

"DMTF SMBIOS" standard.

Memory:

16x 002C069D002C MTC40F2046S1RC64BD2 QSFF 64 GB 2 rank 6400, configured at 4800

### 22. 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,
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-----

```

```

=====
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,

```

(Continued on next page)



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

Test Date: Feb-2026  
 Hardware Availability: Mar-2025  
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## Compiler Version Notes (Continued)

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

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

## 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

(Continued on next page)



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## Peak Compiler Invocation (Continued)

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:

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

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## Peak Optimization Flags (Continued)

820.cloverleaf\_s: -m64 -stand f18 -Wl,-z,muldefs -DSPEC\_OPENMP -fiopenmp  
-nostandard-realloc-lhs -align array32byte -auto  
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

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-v1.19.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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