



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base = 4.05

SPECspeed®2026_int_energy_base = 1.32

SPECspeed®2026_int_peak = 4.09

SPECspeed®2026_int_energy_peak = 1.34

CPU2026 License: 6573

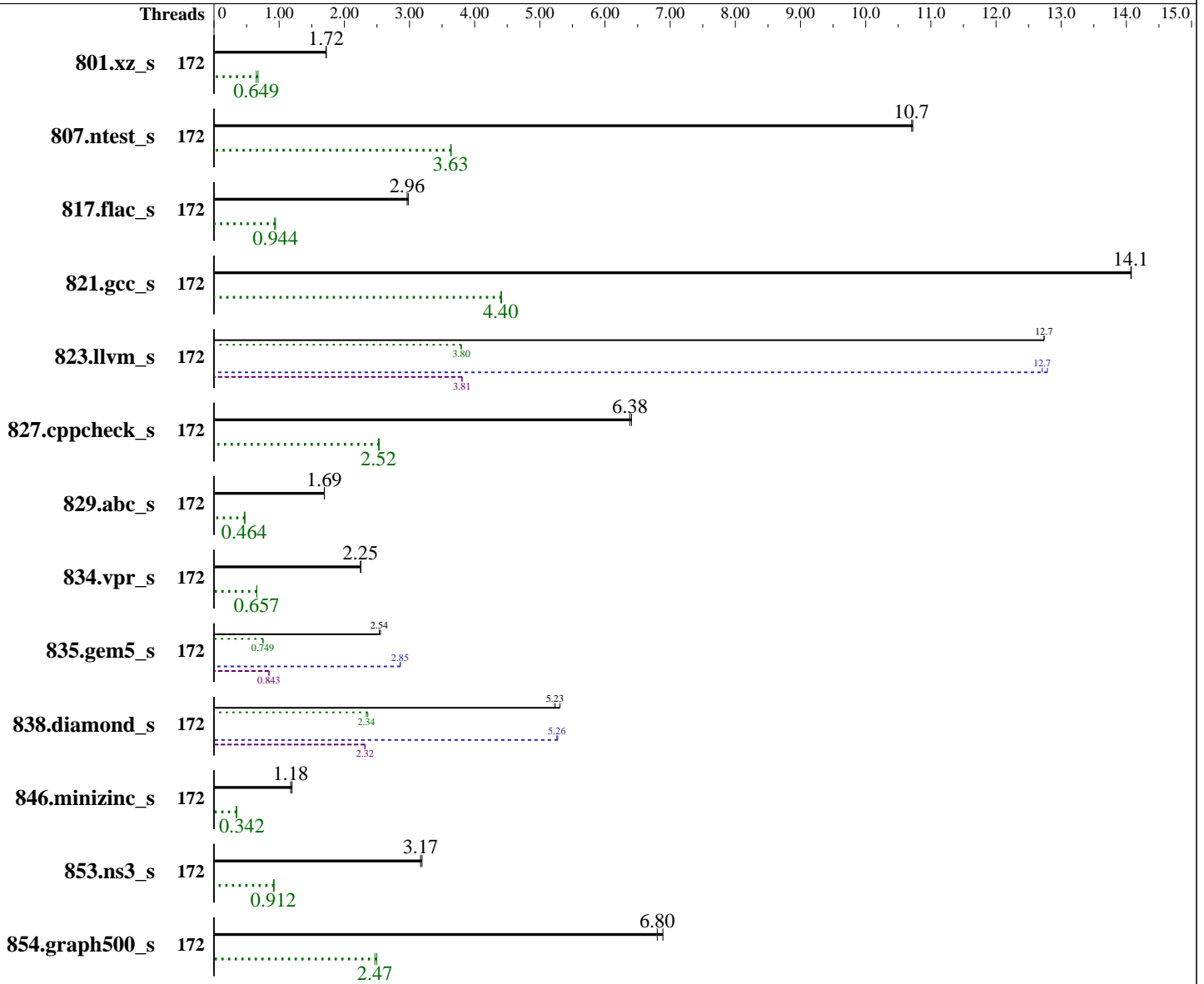
Test Sponsor: Dell Inc.

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)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base = 4.05
 SPECspeed®2026_int_energy_base = 1.32
 SPECspeed®2026_int_peak = 4.09
 SPECspeed®2026_int_energy_peak = 1.34

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

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

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: None

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): 769.6
 Idle Power (W): 180.55
 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



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base = 4.05
 SPECSpeed®2026_int_energy_base = 1.32
 SPECSpeed®2026_int_peak = 4.09
 SPECSpeed®2026_int_energy_peak = 1.34

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

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

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
801.xz_s	172	343	1.72	123	0.676	358	650	344	1.72	128	0.649	371	659						
807.ntest_s	172	106	10.7	63.9	3.63	600	647	106	10.7	63.7	3.64	599	647						
817.flac_s	172	586	2.96	197	0.944	336	385	583	2.98	200	0.931	343	384						
821.gcc_s	172	147	14.1	96.4	4.41	655	700	147	14.1	96.6	4.40	657	702						
823.llvm_s	172	111	12.7	77.1	3.80	696	729	111	12.7	77.3	3.79	698	731						
827.cppcheck_s	172	175	6.41	95.7	2.54	548	770	175	6.38	96.2	2.52	549	768						
829.abc_s	172	490	1.69	146	0.476	298	351	491	1.69	150	0.464	306	350						
834.vpr_s	172	425	2.25	122	0.657	287	291	423	2.26	122	0.659	288	291						
835.gem5_s	172	446	2.55	128	0.754	288	290	449	2.54	129	0.749	287	290						
838.diamond_s	172	191	5.23	85.6	2.34	448	603	189	5.31	84.8	2.36	450	602						
846.minizinc_s	172	559	1.20	179	0.350	320	348	569	1.18	184	0.342	322	348						
853.ns3_s	172	361	3.19	107	0.923	297	344	364	3.17	109	0.912	299	344						
854.graph500_s	172	89.8	6.80	52.6	2.47	585	728	88.7	6.89	52.0	2.50	586	727						

SPECSpeed®2026_int_base = 4.05

SPECSpeed®2026_int_energy_base = 1.32

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
801.xz_s	172	343	1.72	123	0.676	358	650	344	1.72	128	0.649	371	659						
807.ntest_s	172	106	10.7	63.9	3.63	600	647	106	10.7	63.7	3.64	599	647						
817.flac_s	172	586	2.96	197	0.944	336	385	583	2.98	200	0.931	343	384						
821.gcc_s	172	147	14.1	96.4	4.41	655	700	147	14.1	96.6	4.40	657	702						
823.llvm_s	172	111	12.7	76.9	3.81	693	731	110	12.8	76.9	3.81	697	732						
827.cppcheck_s	172	175	6.41	95.7	2.54	548	770	175	6.38	96.2	2.52	549	768						
829.abc_s	172	490	1.69	146	0.476	298	351	491	1.69	150	0.464	306	350						
834.vpr_s	172	425	2.25	122	0.657	287	291	423	2.26	122	0.659	288	291						
835.gem5_s	172	398	2.86	114	0.845	287	290	399	2.85	115	0.843	287	290						
838.diamond_s	172	190	5.28	86.5	2.32	456	616	190	5.26	86.4	2.32	454	617						
846.minizinc_s	172	559	1.20	179	0.350	320	348	569	1.18	184	0.342	322	348						
853.ns3_s	172	361	3.19	107	0.923	297	344	364	3.17	109	0.912	299	344						
854.graph500_s	172	89.8	6.80	52.6	2.47	585	728	88.7	6.89	52.0	2.50	586	727						

SPECSpeed®2026_int_peak = 4.09

SPECSpeed®2026_int_energy_peak = 1.34

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"



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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

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

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 Thu Feb 5 20:10:44 2026

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

Table of contents

1. uname -srvm
2. w
3. Username

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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)

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
 20:10:44 up 4:24, 1 user, load average: 1.30, 23.39, 62.31
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
root      ttyl    -             15:47   44.00s 2.84s  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
-----
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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)

```

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 intspeedaffinity --define drop_caches --iterations 2 --define DL-VERS=7.0_T01
--output_format html,pdf,txt intspeed
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 intspeedaffinity --define drop_caches --iterations 2 --define DL-VERS=7.0_T01
--output_format html,pdf,txt --runmode speed --tune base:peak --size refspeed intspeed --nopreenv
--note-preenv --logfile $SPEC/tmp/CPU2026.001/templogs/preenv.intspeed.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) 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

```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base =	4.05
SPECSpeed®2026_int_energy_base =	1.32
SPECSpeed®2026_int_peak =	4.09
SPECSpeed®2026_int_energy_peak =	1.34

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)

```
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
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
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base = 4.05
 SPECSpeed®2026_int_energy_base = 1.32
 SPECSpeed®2026_int_peak = 4.09
 SPECSpeed®2026_int_energy_peak = 1.34

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)

```

nopl xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni
pclmulqdq dtes64 monitor ds_cpl smx est tm2 ssse3 sdbg fma cx16 xtpr
pdc_m 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
xsaves 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_llc 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/swaps 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

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base = 4.05
 SPECSpeed®2026_int_energy_base = 1.32
 SPECSpeed®2026_int_peak = 4.09
 SPECSpeed®2026_int_energy_peak = 1.34

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)

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: 4 nodes (0-3)
node 0 cpus: 0-42
node 0 size: 257600 MB
node 0 free: 243484 MB
node 1 cpus: 43-85
node 1 size: 258036 MB
node 1 free: 257318 MB
node 2 cpus: 86-128
node 2 size: 258036 MB
node 2 free: 243824 MB
node 3 cpus: 129-171
node 3 size: 257996 MB
node 3 free: 257341 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-f-autoconnect postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore wicked
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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)

```
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
                  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-sysext 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 143:
  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
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base =	4.05
SPECSpeed®2026_int_energy_base =	1.32
SPECSpeed®2026_int_peak =	4.09
SPECSpeed®2026_int_energy_peak =	1.34

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)

```
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 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.
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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:

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      | 854.graph500_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++    | 807.ntest_s(base, peak) 827.cppcheck_s(base, peak) 853.ns3_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 | 801.xz_s(base, peak) 817.flac_s(base, peak) 821.gcc_s(base, peak)
      | 823.llvm_s(base, peak) 829.abc_s(base, peak) 834.vpr_s(base, peak)
      | 835.gem5_s(base, peak) 838.diamond_s(base, peak)
      | 846.minizinc_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.
-----

```



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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

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

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Benchmarks using both C and C++:

icpx icx

Base Portability Flags

```
801.xz_s: -DSPEC_LP64
807.ntest_s: -DSPEC_LP64
817.flac_s: -DSPEC_LP64
821.gcc_s: -DSPEC_LP64
823.llvm_s: -DSPEC_LP64
827.cppcheck_s: -DSPEC_LP64
829.abc_s: -DSPEC_LP64
834.vpr_s: -DSPEC_LP64
835.gem5_s: -DSPEC_LP64
838.diamond_s: -DSPEC_LP64
846.minizinc_s: -DSPEC_LP64
853.ns3_s: -DSPEC_LP64
854.graph500_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:

```
807.ntest_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
```

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECSpeed®2026_int_base =	4.05
SPECSpeed®2026_int_energy_base =	1.32
SPECSpeed®2026_int_peak =	4.09
SPECSpeed®2026_int_energy_peak =	1.34

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 (Continued)

807.ntest_s (continued):

-ljemalloc

827.cppcheck_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

853.ns3_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
 -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Benchmarks using both C and C++:

801.xz_s: -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
 -pthread -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

817.flac_s: Same as 801.xz_s

821.gcc_s: -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
 -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

823.llvm_s: Same as 801.xz_s

829.abc_s: Same as 821.gcc_s

834.vpr_s: Same as 821.gcc_s

835.gem5_s: Same as 801.xz_s

838.diamond_s: Same as 801.xz_s

846.minizinc_s: Same as 801.xz_s



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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

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

Peak Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Benchmarks using both C and C++:
icpx icx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

854.graph500_s: basepeak = yes

C++ benchmarks:

807.ntest_s: basepeak = yes

827.cppcheck_s: basepeak = yes

853.ns3_s: basepeak = yes

Benchmarks using both C and C++:

801.xz_s: basepeak = yes

817.flac_s: basepeak = yes

821.gcc_s: basepeak = yes

823.llvm_s: -m64 -std=c++17 -std=c18 -Wl,-z,muldefs
 -fprofile-generate(pass 1)
 -fprofile-use=default.profddata(pass 2) -xHost(pass 1)
 -ffp-model=fast -xgraniterapids(pass 2) -flto

(Continued on next page)



SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R770 (Intel Xeon 6787P)

SPECspeed®2026_int_base =	4.05
SPECspeed®2026_int_energy_base =	1.32
SPECspeed®2026_int_peak =	4.09
SPECspeed®2026_int_energy_peak =	1.34

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

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

Peak Optimization Flags (Continued)

823.llvm_s (continued):
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3
-mfpmath=sse -funroll-loops -pthread
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

829.abc_s: basepeak = yes

834.vpr_s: basepeak = yes

835.gem5_s: Same as 823.llvm_s

838.diamond_s: Same as 823.llvm_s

846.minizinc_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>

PTDaemon, SPEC CPU, and SPECspeed are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU®2026 v0.902.0 on 2026-02-05 21:10:43-0500.
Report generated on 2026-05-04 23:29:15 by CPU2026 PDF formatter (unknown).
Originally published on 2026-05-05.