



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

CPU2026 License: 6573

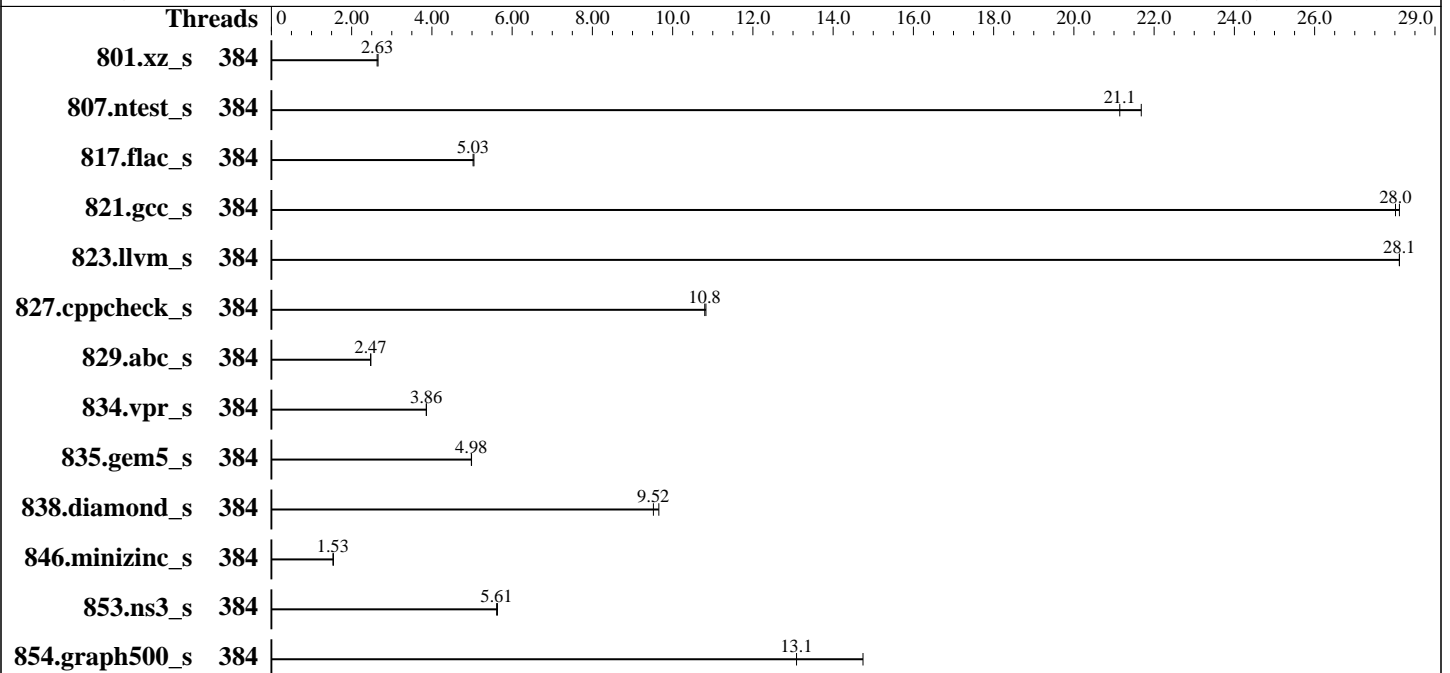
Test Date: Feb-2026

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, 2 threads/core  
 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: 200 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: Not Applicable  
 Other: jemalloc memory allocator v5.3  
 Power Management: BIOS set to prefer performance at the cost of  
 additional power usage.



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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

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

## Results Table

Benchmark	Base						Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
801.xz_s	384	222	2.66	<b><u>224</u></b>	<b><u>2.63</u></b>									
807.ntest_s	384	<b><u>53.9</u></b>	<b><u>21.1</u></b>	52.6	21.7									
817.flac_s	384	<b><u>346</u></b>	<b><u>5.03</u></b>	344	5.05									
821.gcc_s	384	<b><u>73.9</u></b>	<b><u>28.0</u></b>	73.6	28.1									
823.llvm_s	384	<b><u>50.2</u></b>	<b><u>28.1</u></b>	50.2	28.1									
827.cppcheck_s	384	103	10.8	<b><u>104</u></b>	<b><u>10.8</u></b>									
829.abc_s	384	<b><u>336</u></b>	<b><u>2.47</u></b>	335	2.48									
834.vpr_s	384	<b><u>247</u></b>	<b><u>3.86</u></b>	247	3.86									
835.gem5_s	384	<b><u>229</u></b>	<b><u>4.98</u></b>	228	4.99									
838.diamond_s	384	104	9.66	<b><u>105</u></b>	<b><u>9.52</u></b>									
846.minizinc_s	384	433	1.55	<b><u>437</u></b>	<b><u>1.53</u></b>									
853.ns3_s	384	<b><u>205</u></b>	<b><u>5.61</u></b>	205	5.63									
854.graph500_s	384	41.4	14.7	<b><u>46.7</u></b>	<b><u>13.1</u></b>									

SPECspeed®2026\_int\_base = 7.12

SPECspeed®2026\_int\_peak = Not Run

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"

## 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 200 GB ramdisk created with the cmd: "mount -t tmpfs -o size=200G tmpfs /mnt/ramdisk"



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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

BIOS Settings:

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 Sun Feb 8 06:26:11 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

-----  
1. uname -srvm  
-----

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

Linux 6.12.0-160000.5-default #1 SMP PREEMPT\_DYNAMIC Wed Sep 10 15:26:25 UTC 2025 (3545bbd) x86\_64

```

-----
2. w
   06:26:12 up 6 min,  1 user,  load average: 0.64, 3.29, 2.22
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
root      tty1     -             06:24      35.00s     1.33s     ?        /bin/bash
/home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format html,pdf,txt
--tune base

```

```

-----
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) 3088872
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) 3088872
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 --tune base
/bin/bash /home/DellFiles/bin/dell-run-main.sh speed --tune base
/bin/bash /home/DellFiles/bin/dell-run-main.sh speed --tune base
/bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format
html,pdf,txt --tune base
/bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh speed --define DL-VERS=7.0_T01 --output_format
html,pdf,txt --tune base
runcpu --nobuild --reportable --action validate --define default-platform-flags -c

```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

```
ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 384 --define cores=192 --tune base,peak
-o all --define intspeedaffinity --define smt-on --define drop_caches --iterations 2 --define base_only
--define DL-VERS=7.0_T01 --output_format html,pdf,txt --tune base intspeed
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
ic2025.3-graniterapids-cpu2026-0.902-speed-20260121.cfg --threads 384 --define cores=192 --tune base,peak
--output_format all --define intspeedaffinity --define smt-on --define drop_caches --iterations 2 --define
base_only --define DL-VERS=7.0_T01 --output_format html,pdf,txt --tune base --nopower --runmode speed
--tune base --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) 6952P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x10003f3
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi spectre_v2_user
cpu cores      : 96
siblings       : 192
2 physical ids (chips)
384 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 0-63,128-191,256-319
physical id 1: apicids 512-575,640-703,768-831
```

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):                384
On-line CPU(s) list:   0-383
Vendor ID:             GenuineIntel
Model name:            Intel(R) Xeon(R) 6952P
CPU family:            6
Model:                 173
Thread(s) per core:    2
```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

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  
,160,162,164,166,168,170,172,174,176,178,180,182,184,186,188,190,1  
92,194,196,198,200,202,204,206,208,210,212,214,216,218,220,222,224  
,226,228,230,232,234,236,238,240,242,244,246,248,250,252,254,256,2  
58,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290  
,292,294,296,298,300,302,304,306,308,310,312,314,316,318,320,322,3  
24,326,328,330,332,334,336,338,340,342,344,346,348,350,352,354,356  
,358,360,362,364,366,368,370,372,374,376,378,380,382

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  
,161,163,165,167,169,171,173,175,177,179,181,183,185,187,189,191,1  
93,195,197,199,201,203,205,207,209,211,213,215,217,219,221,223,225

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383

Vulnerability Gather data sampling: Not affected  
 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/swaps 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, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 212, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244, 246, 248, 250, 252, 254, 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, 342, 344, 346, 348, 350, 352, 354, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382

node 0 size: 385561 MB

node 0 free: 383122 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

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

5, 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, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 213, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245, 247, 249, 251, 253, 255, 257, 259, 261, 263, 265, 267, 269, 271, 273, 275, 277, 279, 281, 283, 285, 287, 289, 291, 293, 295, 297, 299, 301, 303, 305, 307, 309, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 355, 357, 359, 361, 363, 365, 367, 369, 371, 373, 375, 377, 379, 381, 383

node 1 size: 386882 MB

node 1 free: 357642 MB

node distances:

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

9. /proc/meminfo  
MemTotal: 790982840 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

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

```
root=UUID=0b344ecf-2e5a-4bf3-b6c0-aecf8a6f67c0
mitigations=auto
quiet
security=selinux
selinux=1
```

```
-----
13. cpupower frequency-info
analyzing CPU 315:
  Unable to determine current policy
  boost state support:
    Supported: yes
    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
```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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)

```
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
```

### 18. Disk information

```
SPEC is set to: /mnt/ramdisk/cpu2026rc2
Filesystem      Type  Size  Used Avail Use% Mounted on
tmpfs           tmpfs 200G   13G  188G   7% /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
```



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

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

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

## Compiler Version Notes

=====  
C | 854.graph500\_s(base)  
=====

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) 827.cppcheck\_s(base) 853.ns3\_s(base)  
=====

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) 817.flac\_s(base) 821.gcc\_s(base) 823.llvm\_s(base)  
| 829.abc\_s(base) 834.vpr\_s(base) 835.gem5\_s(base) 838.diamond\_s(base)  
| 846.minizinc\_s(base)  
=====

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.  
=====

## 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

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

CPU2026 License: 6573

Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Dec-2025

Tested by: Dell Inc.

Software Availability: Nov-2025

## Base Portability Flags (Continued)

```

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
-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

```

(Continued on next page)



# SPEC CPU®2026 Integer Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECspeed®2026\_int\_base = 7.12

PowerEdge R770AP (Intel Xeon 6952P)

SPECspeed®2026\_int\_peak = Not Run

CPU2026 License: 6573

Test Date: Feb-2026

Test Sponsor: Dell Inc.

Hardware Availability: Dec-2025

Tested by: Dell Inc.

Software Availability: Nov-2025

## Base Optimization Flags (Continued)

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

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>

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](mailto:info@spec.org).

Tested with SPEC CPU®2026 v0.902.0 on 2026-02-08 07:26:11-0500.

Report generated on 2026-05-04 23:28:54 by CPU2026 PDF formatter (unknown).

Originally published on 2026-05-05.