



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Dell Inc.

SPECrate®2026_int_base = 733

PowerEdge R770AP (Intel Xeon 6952P)

SPECrate®2026_int_peak = 773

CPU2026 License: 6573

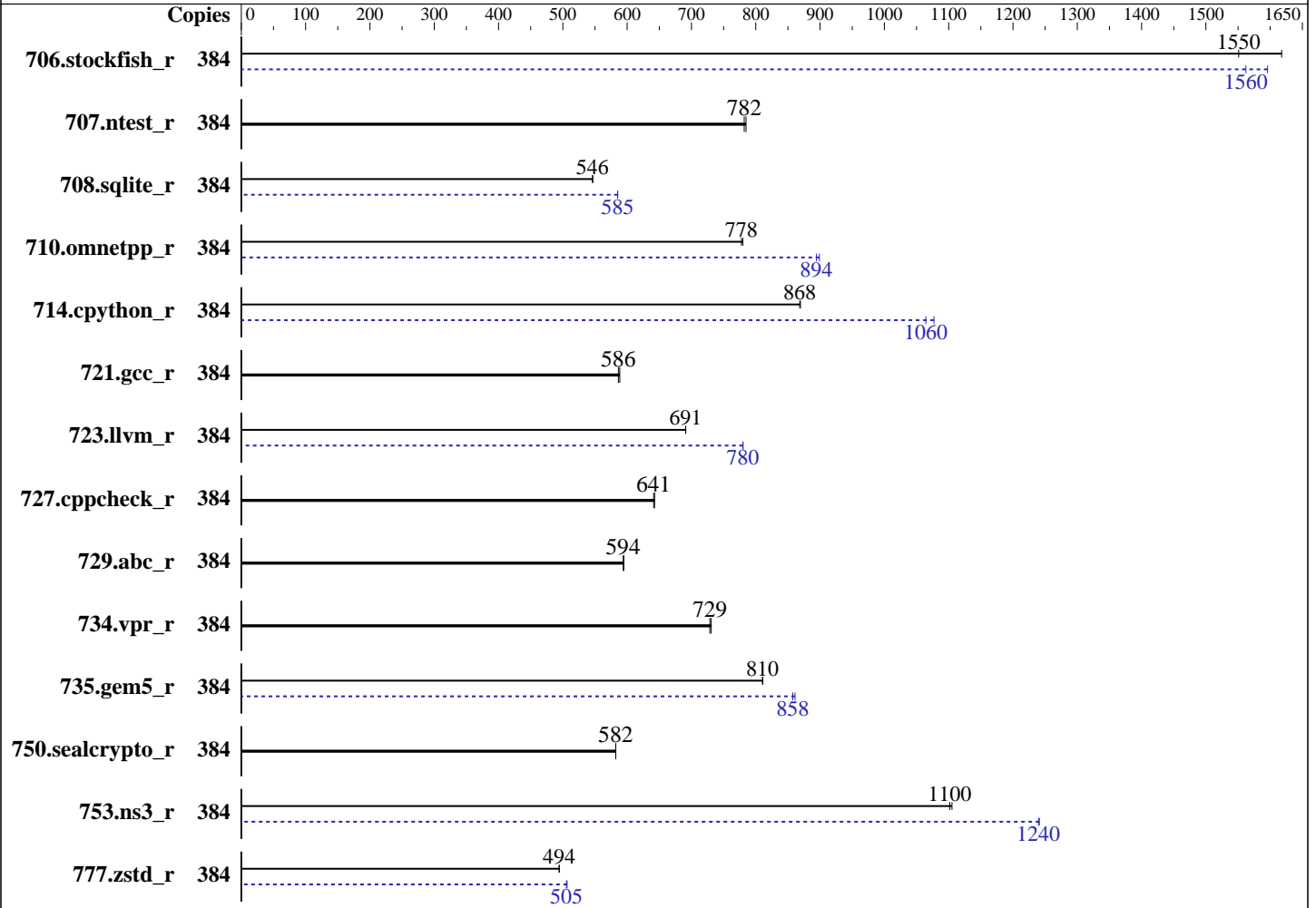
Test Date: Feb-2026

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: 64-bit
 Other: None
 Power Management: BIOS set to prefer performance at the cost of
 additional power usage.



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
706.stockfish_r	384	312	1550	299	1620			384	303	1600	310	1560		
707.nctest_r	384	290	785	291	782			384	290	785	291	782		
708.sqlite_r	384	371	547	371	546			384	346	585	347	585		
710.omnetpp_r	384	240	778	239	780			384	208	899	209	894		
714.cpython_r	384	212	868	212	869			384	173	1060	171	1080		
721.gcc_r	384	448	588	449	586			384	448	588	449	586		
723.llvm_r	384	282	691	282	691			384	250	780	250	780		
727.cppcheck_r	384	215	641	215	643			384	215	641	215	643		
729.abc_r	384	296	595	297	594			384	296	595	297	594		
734.vpr_r	384	243	729	242	731			384	243	729	242	731		
735.gem5_r	384	231	811	231	810			384	217	861	218	858		
750.sealcrypto_r	384	353	582	353	582			384	353	582	353	582		
753.ns3_r	384	214	1100	213	1110			384	190	1240	190	1240		
777.zstd_r	384	500	494	500	494			384	488	507	489	505		

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

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

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"

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

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General Notes (Continued)

Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
Benchmark run from a 200 GB ramdisk created with the cmd: "mount -t tmpfs -o size=200G tmpfs /mnt/ramdisk"

Platform Notes

BIOS Settings:

Sub NUMA Cluster : Enabled
SST-Performance Profile : Operating Point 2 | P1: 2.3 GHz, TDP:400w, Core Count:72

System Profile : Custom
CPU Power Management : Maximum Performance
C-States : Autonomous
Latency Optimized Mode : Enabled
Energy Efficient Policy : Performance

Sysinfo program /mnt/ramdisk/cpu2026rc2/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on R7703AP-R770AP Thu Feb 5 00:37:18 2026

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

Table of contents

1. uname -srvm
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl --hardware
9. /proc/meminfo
10. 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

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Platform Notes (Continued)

19. /sys/devices/virtual/dmi/id
20. dmidecode
21. BIOS

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

2. w
00:37:18 up 19 min, 1 user, load average: 0.45, 0.28, 0.57
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 00:19 30.00s 1.29s ? /bin/bash
/home/DellFiles/bin/Intel/dell-run-speccpu.sh rate --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) 3092901
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) 3092901
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_rate.sh
/bin/bash /home/DellFiles/bin/dell-run-main.sh rate

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Platform Notes (Continued)

```

/bin/bash /home/DellFiles/bin/dell-run-main.sh rate
/bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh rate --define DL-VERS=7.0_T01 --output_format
html,pdf,txt
/bin/bash /home/DellFiles/bin/Intel/dell-run-speccpu.sh rate --define DL-VERS=7.0_T01 --output_format
html,pdf,txt
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 384 -c
ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=192 --define
physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak -o all --iterations 2
--define DL-VERS=7.0_T01 --output_format html,pdf,txt intrate
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 384 --configfile
ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=192 --define
physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak --output_format all
--iterations 2 --define DL-VERS=7.0_T01 --output_format html,pdf,txt --nopower --runmode rate --tune
base:peak --size refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.001/templogs/preenv.intrate.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 swags 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

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Platform Notes (Continued)

```

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
Core(s) per socket:          96
Socket(s):                    2
Stepping:                     1
BogoMIPS:                     5000.00
Flags:                        fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat
                               pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx
                               pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good
                               nopl xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni
                               pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma
                               cx16 xtpr pdcm pcid dca sse4_1 sse4_2 x2apic movbe popcnt
                               tsc_deadline_timer aes xsave avx f16c rdrand lahf_lm abm
                               3dnowprefetch cpuid_fault epb cat_l3 cat_l2 cdp_l3 intel_ppin
                               cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow
                               flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 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):                6
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, 192, 194, 196, 198, 200, 202, 204, 206, 208, 210, 2
                               12, 214, 216, 218, 220, 222, 224, 226, 228, 230, 232, 234, 236, 238, 240, 242, 244
                               , 246, 248, 250, 252, 254
NUMA node1 CPU(s):          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, 256, 258, 260, 262, 264, 26
                               6, 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
NUMA node2 CPU(s):          128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 16
                               0, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190, 320,
                               322, 324, 326, 328, 330, 332, 334, 336, 338, 340, 342, 344, 346, 348, 350, 352, 35

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Platform Notes (Continued)

```

NUMA node3 CPU(s):      4, 356, 358, 360, 362, 364, 366, 368, 370, 372, 374, 376, 378, 380, 382
                        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, 193, 195, 197, 199, 201, 203, 205, 207, 209, 211, 2
                        13, 215, 217, 219, 221, 223, 225, 227, 229, 231, 233, 235, 237, 239, 241, 243, 245
                        , 247, 249, 251, 253, 255
NUMA node4 CPU(s):      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, 257, 259, 261, 263, 265, 26
                        7, 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
NUMA node5 CPU(s):      129, 131, 133, 135, 137, 139, 141, 143, 145, 147, 149, 151, 153, 155, 157, 159, 16
                        1, 163, 165, 167, 169, 171, 173, 175, 177, 179, 181, 183, 185, 187, 189, 191, 321,
                        323, 325, 327, 329, 331, 333, 335, 337, 339, 341, 343, 345, 347, 349, 351, 353, 35
                        5, 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: 6 nodes (0-5)

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, 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

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Platform Notes (Continued)

```

node 0 size: 128568 MB
node 0 free: 99878 MB
node 1 cpus:
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
26,256,258,260,262,264,266,268,270,272,274,276,278,280,282,284,286,288,290,292,294,296,298,300,302,304,306,
308,310,312,314,316,318
node 1 size: 129000 MB
node 1 free: 128677 MB
node 2 cpus:
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
,182,184,186,188,190,320,322,324,326,328,330,332,334,336,338,340,342,344,346,348,350,352,354,356,358,360,36
2,364,366,368,370,372,374,376,378,380,382
node 2 size: 128959 MB
node 2 free: 128633 MB
node 3 cpus:
1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31,33,35,37,39,41,43,45,47,49,51,53,55,57,59,61,63,193,195,197,199,
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
node 3 size: 129000 MB
node 3 free: 128703 MB
node 4 cpus:
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
27,257,259,261,263,265,267,269,271,273,275,277,279,281,283,285,287,289,291,293,295,297,299,301,303,305,307,
309,311,313,315,317,319
node 4 size: 129000 MB
node 4 free: 128690 MB
node 5 cpus:
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
,183,185,187,189,191,321,323,325,327,329,331,333,335,337,339,341,343,345,347,349,351,353,355,357,359,361,36
3,365,367,369,371,373,375,377,379,381,383
node 5 size: 128922 MB
node 5 free: 128612 MB
node distances:
node    0    1    2    3    4    5
  0:   10   15   17   21   28   26
  1:   15   10   15   23   26   23
  2:   17   15   10   26   23   21
  3:   21   28   26   10   15   17
  4:   23   26   23   15   10   15
  5:   26   23   21   17   15   10

```

```

-----
9. /proc/meminfo
   MemTotal:          792014284 kB

'who -r' did not return a run level

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Platform Notes (Continued)

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 0:
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

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PowerEdge R770AP (Intel Xeon 6952P)

SPECrate®2026_int_peak = 773

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)

```

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

```

```

-----
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

```

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Platform Notes (Continued)

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 | 708.sqlite_r(base, peak) 714.cpython_r(base, peak) 777.zstd_r(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++ | 706.stockfish_r(base, peak) 707.ntest_r(base, peak)
| 727.cppcheck_r(base, peak) 753.ns3_r(base, peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2025.3.0 Build 20251010
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(Continued on next page)



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Test Sponsor: Dell Inc.
Tested by: Dell Inc.

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

Compiler Version Notes (Continued)

```
=====  
C++, C | 710.omnetpp_r(base, peak) 721.gcc_r(base, peak) 723.llvm_r(base,  
| peak) 729.abc_r(base, peak) 734.vpr_r(base, peak) 735.gem5_r(base,  
| peak) 750.sealcrypto_r(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.  
=====
```

Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

Benchmarks using both C and C++:
icpx icx

Base Portability Flags

```
706.stockfish_r: -DSPEC_LP64  
707.ntest_r: -DSPEC_LP64  
708.sqlite_r: -DSPEC_LP64  
710.omnetpp_r: -DSPEC_LP64  
714.cpython_r: -DSPEC_LP64  
721.gcc_r: -DSPEC_LP64  
723.llvm_r: -DSPEC_LP64  
727.cppcheck_r: -DSPEC_LP64  
729.abc_r: -DSPEC_LP64  
734.vpr_r: -DSPEC_LP64  
735.gem5_r: -DSPEC_LP64  
750.sealcrypto_r: -DSPEC_LP64  
753.ns3_r: -DSPEC_LP64  
777.zstd_r: -DSPEC_LP64
```



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Test Date: Feb-2026
Hardware Availability: Dec-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
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

C++ benchmarks:

```
-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/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

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
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmallo
```

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:

```
-m64 -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 -mprefer-vector-width=512
-qopt-mem-layout-trans=4 -O3 -mfpmath=sse -funroll-loops
```

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Peak Optimization Flags (Continued)

C benchmarks (continued):

```
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmalloc
```

C++ benchmarks:

```
706.stockfish_r: -m64 -std=c++17 -Wl,-z,muldefs  
-fprofile-generate(pass 1)  
-fprofile-use=default.profddata(pass 2) -xHost(pass 1)  
-ffp-model=fast -xgraniterapids(pass 2) -flto  
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3  
-mfpmath=sse -funroll-loops  
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmalloc
```

707.ntest_r: basepeak = yes

727.cppcheck_r: basepeak = yes

753.ns3_r: Same as 706.stockfish_r

Benchmarks using both C and C++:

```
710.omnetpp_r: -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  
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3  
-mfpmath=sse -funroll-loops  
-L/opt/intel/oneapi/compiler/2025.3/lib -lqkmalloc
```

721.gcc_r: basepeak = yes

723.llvm_r: Same as 710.omnetpp_r

729.abc_r: basepeak = yes

734.vpr_r: basepeak = yes

735.gem5_r: Same as 710.omnetpp_r

750.sealcrypto_r: 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>



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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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