



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Cisco Systems

SPECrate®2026_int_base = 570

Cisco UCS X210c M8 (Intel Xeon 6787P 2.0 GHz)

SPECrate®2026_int_peak = 601

CPU2026 License: 9019

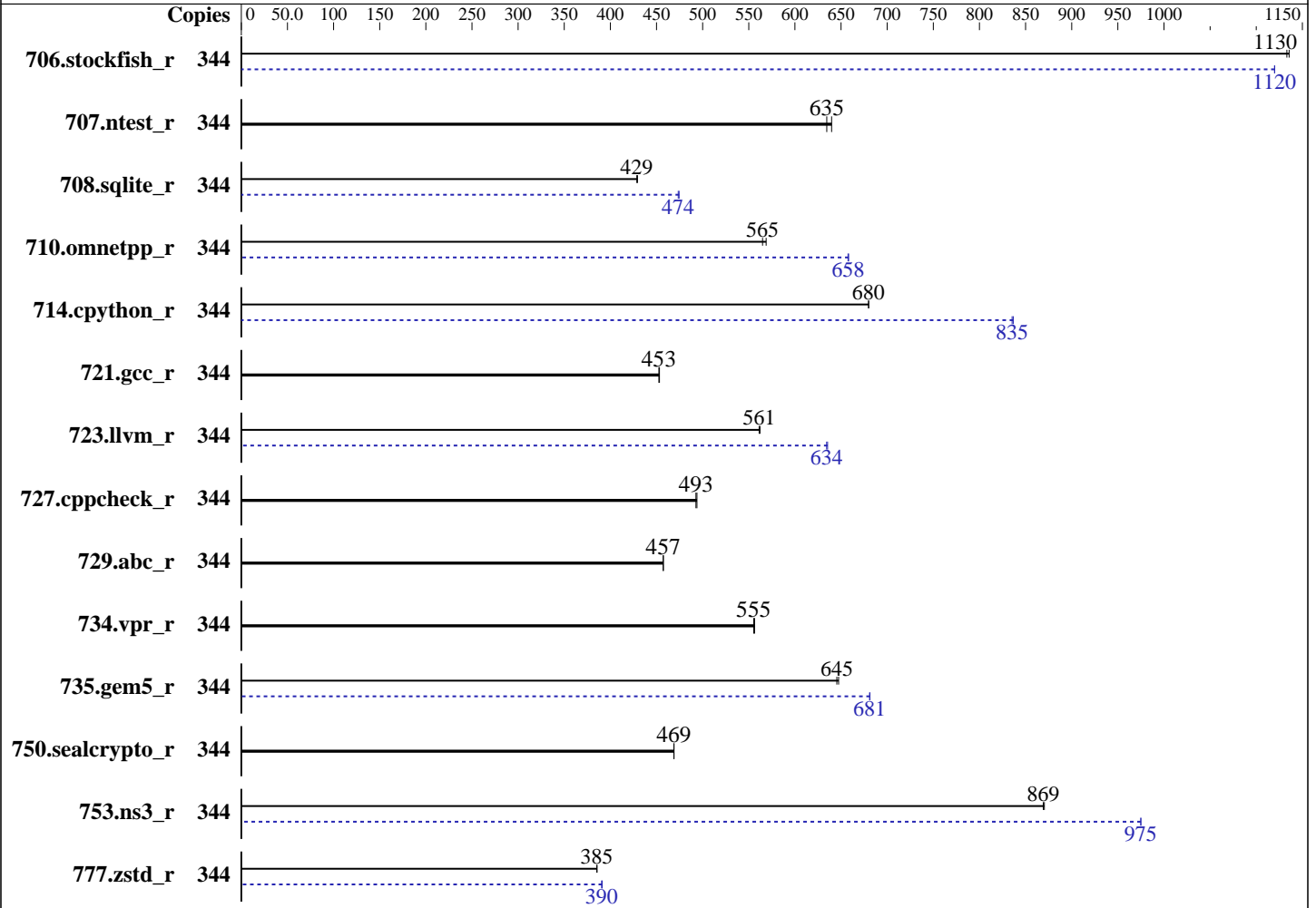
Test Sponsor: Cisco Systems

Tested by: Cisco Systems

Test Date: Feb-2026

Hardware Availability: Feb-2025

Software Availability: Nov-2026



Hardware

CPU Name: Intel Xeon 6787P
 Max MHz: 3800
 Nominal: 2000
 Enabled: 172 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: 336 MB I+D on chip per chip
 Other: None
 Memory: 1 TB (16 x 64 GB 2Rx4 PC5-6400B-R)
 Storage: 1 x 960 GB NVMe SSD
 Cooling: Air
 Other: None

Software

OS: Ubuntu 22.04.5 LTS
 5.15.0-48-generic
 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 6.0.2.105 released Jan-2026
 File System: xfs
 System State: Run level 3 (add definition here)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other: None
 Power Management: BIOS and OS 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	344	382	1140	<u>383</u>	<u>1130</u>			344	<u>387</u>	<u>1120</u>	387	1120		
707.ntest_r	344	318	640	<u>321</u>	<u>635</u>			344	318	640	<u>321</u>	<u>635</u>		
708.sqlite_r	344	<u>424</u>	<u>429</u>	423	429			344	<u>384</u>	<u>474</u>	383	474		
710.omnetpp_r	344	294	569	<u>296</u>	<u>565</u>			344	<u>254</u>	<u>658</u>	254	658		
714.cpython_r	344	<u>242</u>	<u>680</u>	242	680			344	<u>197</u>	<u>835</u>	197	837		
721.gcc_r	344	521	453	<u>521</u>	<u>453</u>			344	521	453	<u>521</u>	<u>453</u>		
723.llvm_r	344	310	562	<u>311</u>	<u>561</u>			344	274	635	<u>275</u>	<u>634</u>		
727.cppcheck_r	344	250	494	<u>251</u>	<u>493</u>			344	250	494	<u>251</u>	<u>493</u>		
729.abc_r	344	345	457	<u>345</u>	<u>457</u>			344	345	457	<u>345</u>	<u>457</u>		
734.vpr_r	344	285	556	<u>286</u>	<u>555</u>			344	285	556	<u>286</u>	<u>555</u>		
735.gem5_r	344	259	647	<u>260</u>	<u>645</u>			344	<u>246</u>	<u>681</u>	246	681		
750.sealcrypto_r	344	393	469	<u>393</u>	<u>469</u>			344	393	469	<u>393</u>	<u>469</u>		
753.ns3_r	344	<u>243</u>	<u>869</u>	242	870			344	<u>216</u>	<u>975</u>	216	975		
777.zstd_r	344	575	386	<u>575</u>	<u>385</u>			344	<u>567</u>	<u>390</u>	566	391		

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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 = "/home/cpu2026.902/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

(Continued on next page)



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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>

Platform Notes

BIOS Settings:

Sub NUMA clustering set to Enabled
Hardware prefetcher set to Enabled
Adjacent cache line prefetcher set to Disabled
Enhanced CPU Performance set to Auto

Sysinfo program /home/cpu2026.902/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on ubuntu2204 Tue Feb 3 22:37:45 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. who -r
 11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.14)
 12. Failed units, from systemctl list-units --state=failed
 13. Services, from systemctl list-unit-files
 14. Linux kernel boot-time arguments, from /proc/cmdline
 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
-

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Platform Notes (Continued)

```
-----
1. uname -srvm
   Linux 5.15.0-48-generic #54-Ubuntu SMP Fri Aug 26 13:26:29 UTC 2022 x86_64
-----
```

```
-----
2. w
   22:37:45 up 1:59, 1 user, load average: 0.20, 0.05, 0.02
   USER      TTY      FROM          LOGIN@      IDLE       JCPU       PCPU       WHAT
   root      tty1      -              22:37       9.00s      2.01s      0.05s     -bash
-----
```

```
-----
3. Username
   From environment variable $USER: root
-----
```

```
-----
4. ulimit -a
   time(seconds)      unlimited
   file(blocks)       unlimited
   data(kbytes)       unlimited
   stack(kbytes)      unlimited
   coredump(blocks)   0
   memory(kbytes)     unlimited
   locked memory(kbytes) 132018288
   process            4125115
   nofiles            1024
   vmemory(kbytes)    unlimited
   locks              unlimited
   rtprio             0
-----
```

```
-----
5. sysinfo process ancestry
   /sbin/init
   /bin/login -p --
   -bash
   -bash
   runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 344 -c
   ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=172 --define
   physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak -o all intrate
   runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 344 --configfile
   ic2025.3-graniterapids-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=172 --define
   physicalfirst --define invoke_with_interleave --define drop_caches --tune base,peak --output_format all
   --nopower --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2026.011/temlogs/preenv.intrate.011.0.log --lognum 011.0 --from_runcpu 2
   specperl $SPEC/bin/sysinfo
   $SPEC = /home/cpu2026.902
-----
```

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Platform Notes (Continued)

```

6. /proc/cpuinfo
  model name      : Intel(R) Xeon(R) 6787P
  vendor_id      : GenuineIntel
  cpu family     : 6
  model         : 173
  stepping      : 1
  microcode     : 0x1000405
  bugs          : spectre_v1 spectre_v2 spec_store_bypass swapgs
  cpu cores     : 86
  siblings      : 172
  2 physical ids (chips)
  344 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 0-85,128-213
  physical id 1: apicids 256-341,384-469

```

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 2.37.2:

```

Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         46 bits physical, 57 bits virtual
Byte Order:            Little Endian
CPU(s):                344
On-line CPU(s) list:  0-343
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6787P
CPU family:             6
Model:                  173
Thread(s) per core:    2
Core(s) per socket:    86
Socket(s):              2
Stepping:               1
CPU max MHz:           3800.0000
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 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

```

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Platform Notes (Continued)

```

lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 cat_l2 cdp_l3
invpcid_single cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow
vnmi 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 avx_vnni
avx512_bf16 wbnoinvd dtherm ida 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 frsm md_clear serialize
tsxldtrk pconfig arch_lbr amx_bf16 avx512_fp16 amx_tile amx_int8 flush_l1d

```

arch_capabilities

```

Virtualization: VT-x
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): 0-42,172-214
NUMA node1 CPU(s): 43-85,215-257
NUMA node2 CPU(s): 86-128,258-300
NUMA node3 CPU(s): 129-171,301-343
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling
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

8. numactl --hardware

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

```

available: 4 nodes (0-3)
node 0 cpus: 0-42,172-214
node 0 size: 257321 MB

```

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Platform Notes (Continued)

```

node 0 free: 255735 MB
node 1 cpus: 43-85,215-257
node 1 size: 258027 MB
node 1 free: 256902 MB
node 2 cpus: 86-128,258-300
node 2 size: 258027 MB
node 2 free: 257103 MB
node 3 cpus: 129-171,301-343
node 3 size: 258016 MB
node 3 free: 256954 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:          1056146332 kB

```

```

-----
10. who -r
    run-level 5 Feb 3 12:38

```

```

-----
11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.14)
    Default Target  Status
    graphical      degraded

```

```

-----
12. Failed units, from systemctl list-units --state=failed
    UNIT                                LOAD  ACTIVE SUB    DESCRIPTION
* docker.service                       loaded failed failed Docker Application Container Engine
* ndctl-monitor.service                 loaded failed failed Ndctl Monitor Daemon
* docker.socket                          loaded failed failed Docker Socket for the API

```

```

-----
13. Services, from systemctl list-unit-files
    STATE  UNIT FILES
enabled  ModemManager apparmor binfmt-support blk-availability cloud-config cloud-final cloud-init
cloud-init-local console-setup containerd cron dmesg docker e2scrub_reap finalrd getty@
gpu-manager grub-common grub-initrd-fallback irqbalance keyboard-setup lvm2-monitor
lxd-agent multipathd ndctl-monitor networkd-dispatcher nvme-fc-boot-connections
nvmmf-autoconnect open-iscsi open-vm-tools pollinate rpcbind rsyslog secureboot-db setvtrgb
snapd ssh systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved
systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades

```

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Platform Notes (Continued)

```

vgauth xpum
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled console-getty debug-shell ipmievdc iscsid nftables rsync serial-getty@
systemd-boot-check-no-failures systemd-network-generator systemd-sysext
systemd-time-wait-sync upower xpum_rest
generated apport kexec kexec-load openipmi
indirect uidd
masked cryptdisks cryptdisks-early hwclock lvm2 multipath-tools-boot nfs-common rc rcS
screen-cleanup sudo x11-common

```

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

```

BOOT_IMAGE=/boot/vmlinuz-5.15.0-48-generic
root=UUID=db663766-6856-42f5-blca-4efa8e14e528
ro

```

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
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

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Platform Notes (Continued)

```

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 Ubuntu 22.04.5 LTS

```

19. Disk information

```

SPEC is set to: /home/cpu2026.902
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme3nlp26 xfs   731G  146G  586G  20% /home

```

20. /sys/devices/virtual/dmi/id

```

Vendor:          Cisco Systems Inc
Product:         UCSX-210C-M8
Serial:          FCH284272D6

```

21. dmidecode

Additional information from dmidecode 3.3 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:
16x 0xCE00 M321R8GA0PB2-CCPKC 64 GB 2 rank 6400
16x NO DIMM NO DIMM

```

22. BIOS

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

```

BIOS Vendor:      Cisco Systems, Inc.
BIOS Version:     X210M8.6.0.2.105.0108262338
BIOS Date:        01/08/2026
BIOS Revision:    5.35

```



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

```
=====
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

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Base Portability Flags (Continued)

```

708.sqlite_r: -DSPEC_LP64
710.omnetpp_r: -DSPEC_LP64
714.cpython_r: -DSPEC_LP64
721.gc_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

```

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 -lqkmalloc

```

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 -lqkmalloc

```

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 -lqkmalloc

```

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

(Continued on next page)



SPEC CPU[®]2026 Integer Rate Result

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Cisco Systems

SPECrate[®]2026_int_base = 570

Cisco UCS X210c M8 (Intel Xeon 6787P 2.0 GHz)

SPECrate[®]2026_int_peak = 601

CPU2026 License: 9019

Test Date: Feb-2026

Test Sponsor: Cisco Systems

Hardware Availability: Feb-2025

Tested by: Cisco Systems

Software Availability: Nov-2026

Peak Compiler Invocation (Continued)

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
-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
```

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Peak Optimization Flags (Continued)

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/Cisco-Platform-Settings-V1.2-GNR-revE.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/Cisco-Platform-Settings-V1.2-GNR-revE.xml>

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Tested with SPEC CPU®2026 v0.902.0 on 2026-02-03 17:37:44-0500.

Report generated on 2026-05-11 16:38:09 by CPU2026 PDF formatter (unknown).

Originally published on 2026-05-05.