



SPEC CPU®2026 Floating Point Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Cisco Systems

SPECrate®2026_fp_base = 585

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

SPECrate®2026_fp_peak = 602

CPU2026 License: 9019

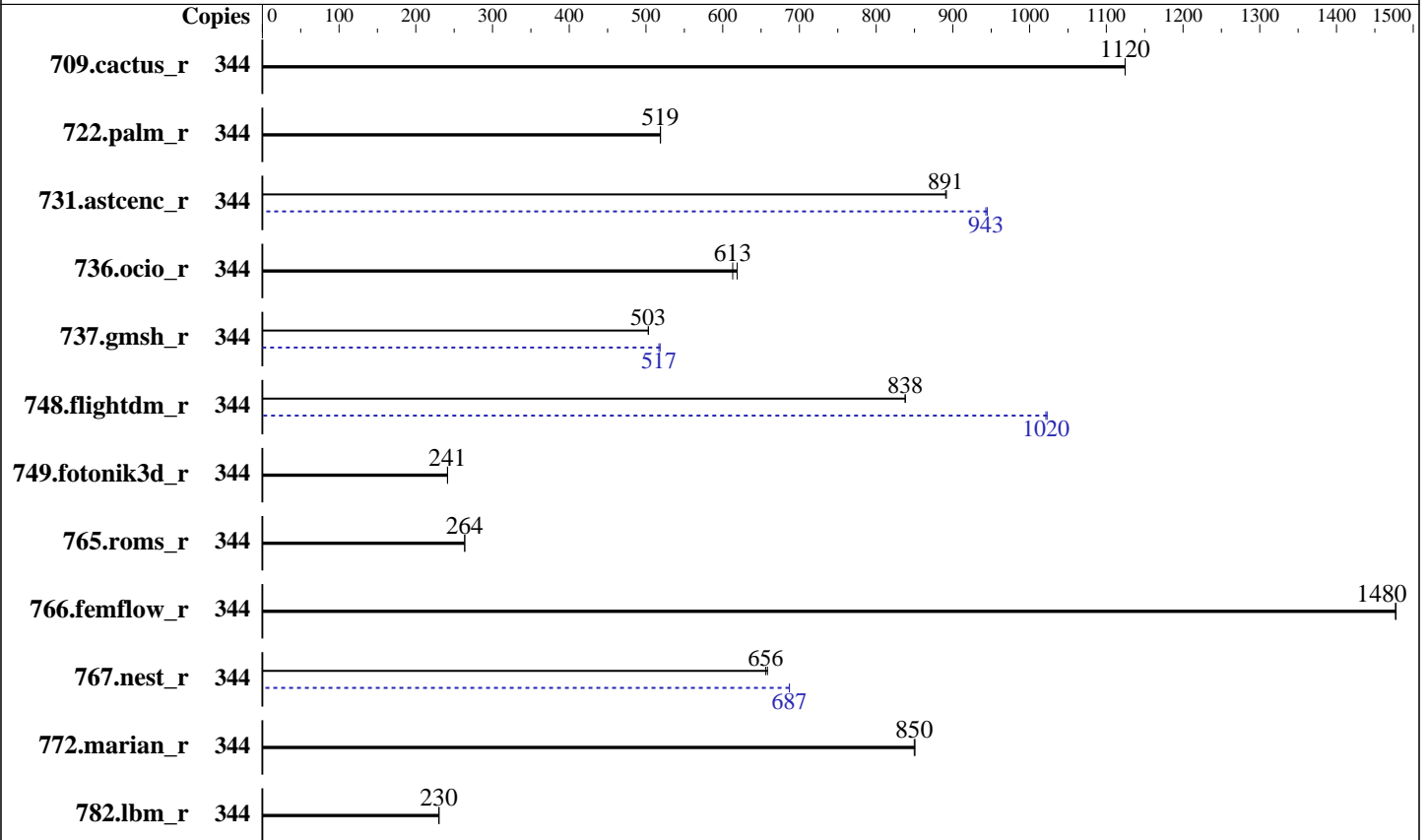
Test Date: Feb-2026

Test Sponsor: Cisco Systems

Hardware Availability: Feb-2025

Tested by: Cisco Systems

Software Availability: Jan-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: jemalloc memory allocator v5.3
 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
709.cactus_r	344	262	1120	<u>262</u>	<u>1120</u>			344	262	1120	<u>262</u>	<u>1120</u>		
722.palm_r	344	<u>875</u>	<u>519</u>	875	519			344	<u>875</u>	<u>519</u>	875	519		
731.ascenc_r	344	324	892	<u>324</u>	<u>891</u>			344	306	945	<u>306</u>	<u>943</u>		
736.ocio_r	344	486	619	<u>491</u>	<u>613</u>			344	486	619	<u>491</u>	<u>613</u>		
737.gmsh_r	344	<u>314</u>	<u>503</u>	314	503			344	305	518	<u>305</u>	<u>517</u>		
748.flightdm_r	344	<u>294</u>	<u>838</u>	294	838			344	<u>241</u>	<u>1020</u>	241	1020		
749.fotonik3d_r	344	1647	241	<u>1648</u>	<u>241</u>			344	1647	241	<u>1648</u>	<u>241</u>		
765.roms_r	344	2054	264	<u>2054</u>	<u>264</u>			344	2054	264	<u>2054</u>	<u>264</u>		
766.femflow_r	344	342	1480	<u>342</u>	<u>1480</u>			344	342	1480	<u>342</u>	<u>1480</u>		
767.nest_r	344	<u>416</u>	<u>656</u>	414	658			344	<u>397</u>	<u>687</u>	397	687		
772.marian_r	344	639	851	<u>639</u>	<u>850</u>			344	639	851	<u>639</u>	<u>850</u>		
782.lbm_r	344	<u>857</u>	<u>230</u>	856	230			344	<u>857</u>	<u>230</u>	856	230		

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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
Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches

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General Notes (Continued)

```

runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
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

```

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 Wed Feb 4 04:14:32 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`
04:14:32 up 7:36, 1 user, load average: 130.64, 280.62, 314.82
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
root tty1 - 22:37 5:36m 2.19s 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 fprate
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 fprate --nopreenv --note-preenv --logfile \$SPEC/tmp/CPU2026.012/templogs/preenv.fprate.012.0.log --lognum 012.0 --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

```

(Continued on next page)



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Platform Notes (Continued)

```
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
invpcid_single cdp_l2 ssbd mba ibrs ibpb stibp ibrs_enhanced tpr_shadow
vmx 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 fsrm 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/swapgs 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

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Platform Notes (Continued)

```

node 0 size: 257321 MB
node 0 free: 236967 MB
node 1 cpus: 43-85,215-257
node 1 size: 258027 MB
node 1 free: 238476 MB
node 2 cpus: 86-128,258-300
node 2 size: 258027 MB
node 2 free: 238288 MB
node 3 cpus: 129-171,301-343
node 3 size: 258016 MB
node 3 free: 238584 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
nvme-f-autoconnect open-iscsi open-vm-tools pollinate rpcbind rsyslog secureboot-db setvtrgb
snapd ssh systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved

```

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Platform Notes (Continued)

```

systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades
vgauth xpum
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled console-getty debug-shell ipmievd 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

```

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Platform Notes (Continued)

```

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 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  214G  518G  30% /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 | 782.lbm_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++ | 731.astcenc_r(base, peak) 736.ocio_r(base, peak)
| 748.flightdm_r(base, peak) 766.femflow_r(base, peak)
767.nest_r(base, peak) 772.marian_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 | 709.cactus_r(base, peak) 737.gmsh_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.

=====
Fortran | 722.palm_r(base, peak) 749.fotonik3d_r(base, peak) 765.roms_r(base,
peak)

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version
2025.3.0 Build 20251010
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

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Base Compiler Invocation (Continued)

Benchmarks using both C and C++:

icpx icx

Base Portability Flags

```

709.cactus_r: -DSPEC_LP64
722.palm_r: -DSPEC_LP64
731.ascenc_r: -DSPEC_LP64
736.ocio_r: -DSPEC_LP64
737.gmsh_r: -DSPEC_LP64 -fno-associative-math
748.flightdm_r: -DSPEC_LP64
749.fotonik3d_r: -DSPEC_LP64
765.roms_r: -DSPEC_LP64
766.femflow_r: -DSPEC_LP64
767.nest_r: -DSPEC_LP64
772.marian_r: -DSPEC_LP64
782.lbm_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/usr/local/jemalloc-5.3.0/lib
-ljemalloc

```

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/usr/local/jemalloc-5.3.0/lib
-ljemalloc

```

Fortran benchmarks:

```

-m64 -stand f18 -Wl,-z,muldefs -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -nostandard-realloc-lhs
-align array32byte -auto -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

```

Benchmarks using both C and C++:

```

-m64 -std=c++17 -std=c18 -Wl,-z,muldefs -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -L/usr/local/jemalloc-5.3.0/lib

```

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SPEC CPU®2026 Floating Point Rate Result

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Cisco Systems

SPECrate®2026_fp_base = 585

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

SPECrate®2026_fp_peak = 602

CPU2026 License: 9019

Test Sponsor: Cisco Systems

Tested by: Cisco Systems

Test Date: Feb-2026

Hardware Availability: Feb-2025

Software Availability: Jan-2026

Base Optimization Flags (Continued)

Benchmarks using both C and C++ (continued):

-ljemalloc

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both C and C++:

icpx icx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

782.lbm_r: basepeak = yes

C++ benchmarks:

731.astcenc_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) -flt0
-mprefer-vector-width=512 -qopt-mem-layout-trans=4 -O3
-mfpmath=sse -funroll-loops
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

736.ocio_r: basepeak = yes

748.flightdm_r: Same as 731.astcenc_r

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Peak Optimization Flags (Continued)

766.femflow_r: basepeak = yes

767.nest_r: Same as 731.astcenc_r

772.marian_r: basepeak = yes

Fortran benchmarks:

722.palm_r: basepeak = yes

749.fotonik3d_r: basepeak = yes

765.roms_r: basepeak = yes

Benchmarks using both C and C++:

709.cactus_r: basepeak = yes

```
737.gmsh_r: -m64 -std=c++17 -std=c18 -w1,-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/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

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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