



# SPEC CPU®2026 Floating Point Rate Result

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## IEIT Systems Co., Ltd.

SPECrate®2026\_fp\_base = 569

### meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026\_fp\_peak = Not Run

CPU2026 License: 3358

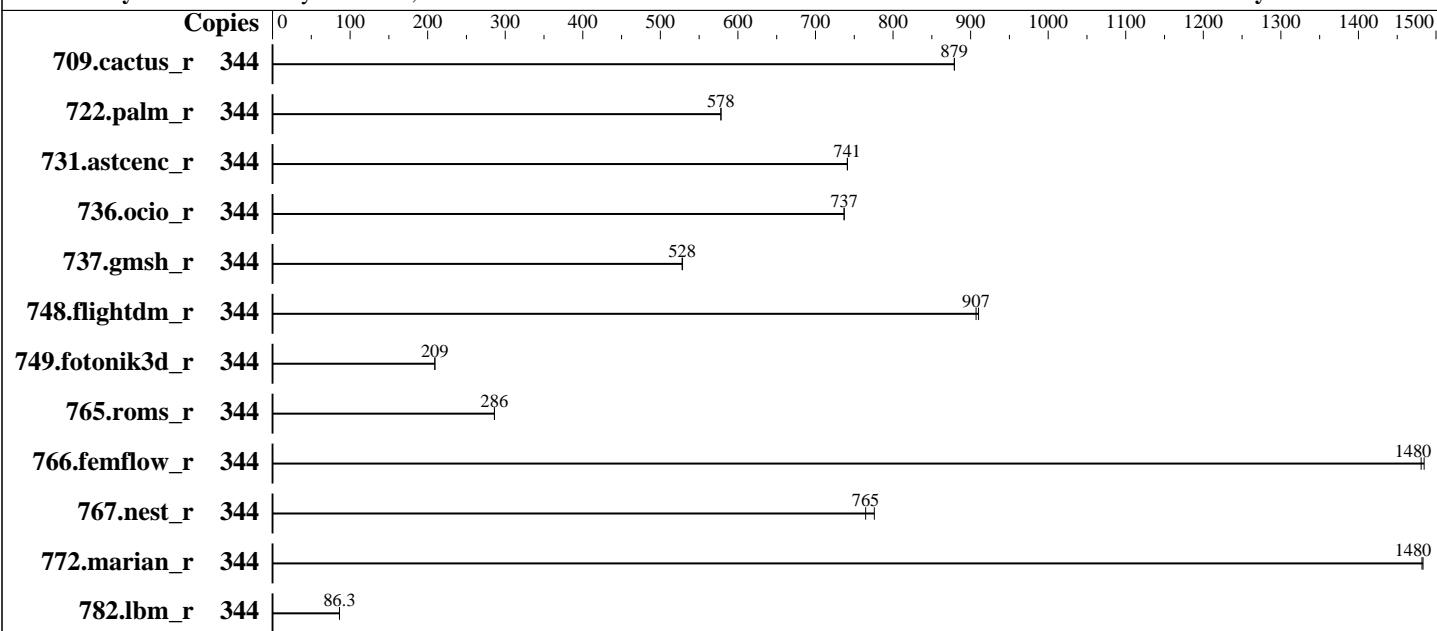
Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: Apr-2026

Hardware Availability: Apr-2025

Software Availability: Nov-2025



### 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 PC5-88/64B-H, running at 8000)  
 Storage: 1 x 1.92 TB NVME SSD  
 Cooling: Air  
 Other: None

### Software

OS: Red Hat Enterprise Linux 9.7 (Plow)  
 5.14.0-611.5.1.el9\_7.x86\_64  
 Compiler: C/C++/Fortran: Version 15.1.1 of GCC, the GNU Compiler Collection  
 Compiler Category: Community  
 Firmware: Version 04.01.00 released Dec-2025  
 File System: xfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 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
709.cactus_r	344	<b>336</b>	<b>879</b>	336	879									
722.palm_r	344	785	578	<b>786</b>	<b>578</b>									
731.ascenc_r	344	390	741	<b>390</b>	<b>741</b>									
736.ocio_r	344	<b>408</b>	<b>737</b>	408	737									
737.gmsh_r	344	<b>299</b>	<b>528</b>	299	529									
748.flightdm_r	344	<b>272</b>	<b>907</b>	271	910									
749.fotonik3d_r	344	1900	209	<b>1901</b>	<b>209</b>									
765.roms_r	344	1894	286	<b>1894</b>	<b>286</b>									
766.femflow_r	344	<b>341</b>	<b>1480</b>	340	1480									
767.nest_r	344	<b>357</b>	<b>765</b>	352	776									
772.marian_r	344	366	1480	<b>367</b>	<b>1480</b>									
782.lbm_r	344	2283	86.3	<b>2284</b>	<b>86.3</b>									

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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 =
"/opt/rh/gcc-toolset-15/root/usr/lib64:/opt/rh/gcc-toolset-15/root/usr/
lib:/lib64"
```

## General Notes

Prior to runcpu invocation  
Filesystem page cache synced and cleared with:  
sync; echo 3> /proc/sys/vm/drop\_caches

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)

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## General Notes (Continued)

is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

## Platform Notes

BIOS configuration:

ENERGY\_PERF\_BIAS\_CFG mode set to Performance

SNC set to Enabled

VT Support set to Disable

Hardware P-states set to Disable

Sysinfo program /home/CPU2026/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Wed Aug 5 13:42:42 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 252 (252-55.el9)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent\_hugepage
17. /sys/kernel/mm/transparent\_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

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## Platform Notes (Continued)

```

1. uname -srvm
Linux 5.14.0-611.5.1.el9_7.x86_64 #1 SMP PREEMPT_DYNAMIC Fri Oct 17 14:16:35 EDT 2025 x86_64

```

```

2. w
13:42:42 up 3:29, 1 user, load average: 137.76, 281.95, 312.53
USER      TTY      LOGIN@  IDLE   JCPU   PCPU   WHAT
root      tty1    10:21   3:14m  1.37s  0.00s  sh run.sh

```

```

3. Username
From environment variable $USER: root

```

```

4. ulimit -a
real-time non-blocking time (microseconds, -R) unlimited
core file size             (blocks, -c) 0
data seg size              (kbytes, -d) unlimited
scheduling priority        (-e) 0
file size                  (blocks, -f) unlimited
pending signals            (-i) 4125704
max locked memory          (kbytes, -l) 64
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) 4125704
virtual memory             (kbytes, -v) unlimited
file locks                 (-x) unlimited

```

```

5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize 31
login -- root
-bash
sh run.sh
runcpu --config lgh.cfg --reportable --iterations=2 --size=all --tune=base fprate
runcpu --configfile lgh.cfg --reportable --iterations 2 --size all --tune base --nopower --runmode rate
--tune base --size test:train:refrate fprate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.002/templogs/preenv.fprate.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo

```

(Continued on next page)



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## Platform Notes (Continued)

\$SPEC = /home/CPU2026

### 6. /proc/cpuinfo

```

model name      : Intel(R) Xeon(R) 6787P
vendor_id      : GenuineIntel
cpu family     : 6
model          : 173
stepping       : 1
microcode      : 0x10003d0
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi spectre_v2_user
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 2.37.4:

```

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):                 344
On-line CPU(s) list:   0-343
Vendor ID:              GenuineIntel
BIOS Vendor ID:        Intel(R) Corporation
Model name:             Intel(R) Xeon(R) 6787P
BIOS 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
Frequency boost:       enabled
CPU(s) scaling MHz:    100%
CPU max MHz:           2001.0000
CPU min MHz:           800.0000
BogoMIPS:               4000.00

```

(Continued on next page)



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## Platform Notes (Continued)

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
pdpelgb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good
nopl xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni
pclmulqdq dtes64 ds_cpl 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 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 avx512vbmi umip pku ospke waitpkg avx512_vbmi2
gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme
avx512_vpopcntdq la57 rdpid bus_lock_detect cldemote movdiri
movdir64b enqcmd fsrm md_clear serialize tsxldtrk pconfig arch_lbr
ibt amx_bf16 avx512_fp16 amx_tile amx_int8 flush_lld
arch_capabilities

```

```

Lld cache: 8.1 MiB (172 instances)
Lli 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 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/swapgs 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

```

(Continued on next page)



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## Platform Notes (Continued)

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: 257471 MB
node 0 free: 229689 MB
node 1 cpus: 43-85,215-257
node 1 size: 258026 MB
node 1 free: 238366 MB
node 2 cpus: 86-128,258-300
node 2 size: 257980 MB
node 2 free: 237844 MB
node 3 cpus: 129-171,301-343
node 3 size: 257996 MB
node 3 free: 234796 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: 1056230412 kB

10. who -r

run-level 3 Aug 5 10:13

11. Systemd service manager version: systemd 252 (252-55.e19)

```

Default Target Status
multi-user      running

```

12. Services, from systemctl list-unit-files

```

STATE UNIT FILES
enabled NetworkManager NetworkManager-dispatcher NetworkManager-wait-online auditd crond

```

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## Platform Notes (Continued)

```

dbus-broker firewalld getty@ insights-client-boot irqbalance kdump low-memory-monitor
lvm2-monitor mdmonitor microcode nis-domainname nvme-fc-boot-connections rhsmcertd rsyslog
rtkit-daemon selinux-autorelabel-mark sshd sssd systemd-boot-update
systemd-network-generator systemd-pstore udisks2 upower
enabled-runtime systemd-remount-fs
disabled blk-availability canberra-system-bootup canberra-system-shutdown
canberra-system-shutdown-reboot console-getty cpupower debug-shell dnf-system-upgrade
kvm_stat lvm-devices-import man-db-restart-cache-update nftables nvme-autoconnect pesign
rdisc rhcd rhsm rhsm-facts rpmdb-rebuild selinux-check-proper-disable serial-getty@
sshd-keygen@ systemd-boot-check-no-failures systemd-sysext
indirect sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo systemd-sysupdate
systemd-sysupdate-reboot

```

```

-----
13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=(hd0,gpt2)/vmlinuz-5.14.0-611.5.1.el9_7.x86_64
root=/dev/mapper/rhel-root
ro
resume=/dev/mapper/rhel-swap
rd.lvm.lv=rhel/root
rd.lvm.lv=rhel/swap

```

```

-----
14. cpupower frequency-info
analyzing CPU 320:
  current policy: frequency should be within 800 MHz and 2.00 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.

  boost state support:
    Supported: yes
    Active: yes

```

```

-----
15. sysctl
kernel.numa_balancing          1
kernel.randomize_va_space      2
vm.compaction_proactiveness    20
vm.dirty_background_bytes      0
vm.dirty_background_ratio      10
vm.dirty_bytes                  0
vm.dirty_expire_centisecs      3000
vm.dirty_ratio                  20
vm.dirty_writeback_centisecs   500
vm.dirtytime_expire_seconds    43200
vm.extfrag_threshold           500
vm.min_unmapped_ratio          1
vm.nr_hugepages                 0

```

(Continued on next page)



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## Platform Notes (Continued)

```

vm.nr_hugepages_mempolicy      0
vm.nr_overcommit_hugepages    0
vm.swappiness                  60
vm.watermark_boost_factor     15000
vm.watermark_scale_factor     10
vm.zone_reclaim_mode          0

```

```

-----
16. /sys/kernel/mm/transparent_hugepage
defrag          always defer defer+madvice [madvice] never
enabled         [always] madvice never
hpage_pmd_size 2097152
shmem_enabled   always within_size advise [never] deny force

```

```

-----
17. /sys/kernel/mm/transparent_hugepage/khugepaged
alloc_sleep_millisecs  60000
defrag                  1
max_ptes_none          511
max_ptes_shared        256
max_ptes_swap          64
pages_to_scan          4096
scan_sleep_millisecs   10000

```

```

-----
18. OS release
From /etc/*-release /etc/*-version
os-release      Red Hat Enterprise Linux 9.7 (Plow)
redhat-release  Red Hat Enterprise Linux release 9.7 (Plow)
system-release  Red Hat Enterprise Linux release 9.7 (Plow)

```

```

-----
19. Disk information
SPEC is set to: /home/CPU2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs   856G  125G  732G  15% /home

```

```

-----
20. /sys/devices/virtual/dmi/id
Vendor:      IEIT SYSTEMS
Product:     NF5280-M8-A0-R0-00
Product Family: Not specified
Serial:      000000000

```

```

-----
21. dmidecode
Additional information from dmidecode 3.6 follows.  WARNING: Use caution when you interpret this section.

```

(Continued on next page)



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## Platform Notes (Continued)

The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

Memory:

4x Hynix HMC98BDJHA380N 64 GB 2 rank 12800, configured at 8000

12x Hynix HMC98BDJHA383N 64 GB 2 rank 12800, configured at 8000

### 22. BIOS

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

BIOS Vendor: American Megatrends International, LLC.

BIOS Version: 04.01.00

BIOS Date: 12/17/2025

## Compiler Version Notes

C | 782.lbm\_r(base)

gcc (GCC) 15.1.1 20250521 (Red Hat 15.1.1-2)

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C++ | 731.astcenc\_r(base) 736.ocio\_r(base) 748.flightdm\_r(base)  
| 766.femflow\_r(base) 767.nest\_r(base) 772.marian\_r(base)

g++ (GCC) 15.1.1 20250521 (Red Hat 15.1.1-2)

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C++, C | 709.cactus\_r(base pass 0) 737.gmsh\_r(base pass 0)

g++ (GCC) 15.1.1 20250521 (Red Hat 15.1.1-2)

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-----

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-----

=====  
Fortran | 722.palm\_r(base) 749.fotonik3d\_r(base) 765.roms\_r(base)

-----  
GNU Fortran (GCC) 15.1.1 20250521 (Red Hat 15.1.1-2)  
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.  
-----

## Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

(Continued on next page)



# SPEC CPU®2026 Floating Point Rate Result

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IEIT Systems Co., Ltd.

SPECrate®2026\_fp\_base = 569

meta brain NF5280G8 (Intel Xeon 6787P)

SPECrate®2026\_fp\_peak = Not Run

CPU2026 License: 3358

Test Sponsor: IEIT Systems Co., Ltd.

Tested by: IEIT Systems Co., Ltd.

Test Date: Apr-2026

Hardware Availability: Apr-2025

Software Availability: Nov-2025

## Base Compiler Invocation (Continued)

Benchmarks using both C and C++:

g++ gcc

## Base Optimization Flags

C benchmarks:

-m64 -std=c18 -g -O3 -march=native

C++ benchmarks:

731.astcenc\_r: -m64 -std=c++17 -g -O3 -march=native

736.ocio\_r: Same as 731.astcenc\_r

748.flightdm\_r: Same as 731.astcenc\_r

766.femflow\_r: -m64 -std=c++17 -g -O3 -march=native -pthread

767.nest\_r: Same as 731.astcenc\_r

772.marian\_r: Same as 766.femflow\_r

Fortran benchmarks:

-m64 -std=f2018 -g -O3 -march=native -fallow-argument-mismatch

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -g -O3 -march=native

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.html>

<http://www.spec.org/cpu2026/results/flags/IEIT-Platform-Settings-intel-V2.0.html>

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.xml>

<http://www.spec.org/cpu2026/results/flags/IEIT-Platform-Settings-intel-V2.0.xml>

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

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