



SPEC CPU®2026 Floating Point Speed Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant Compute EL240 Gen12

(2.00 GHz, Intel Xeon 6787P)

SPECspeed®2026_fp_base = 9.15

SPECspeed®2026_fp_peak = 9.16

CPU2026 License: 3

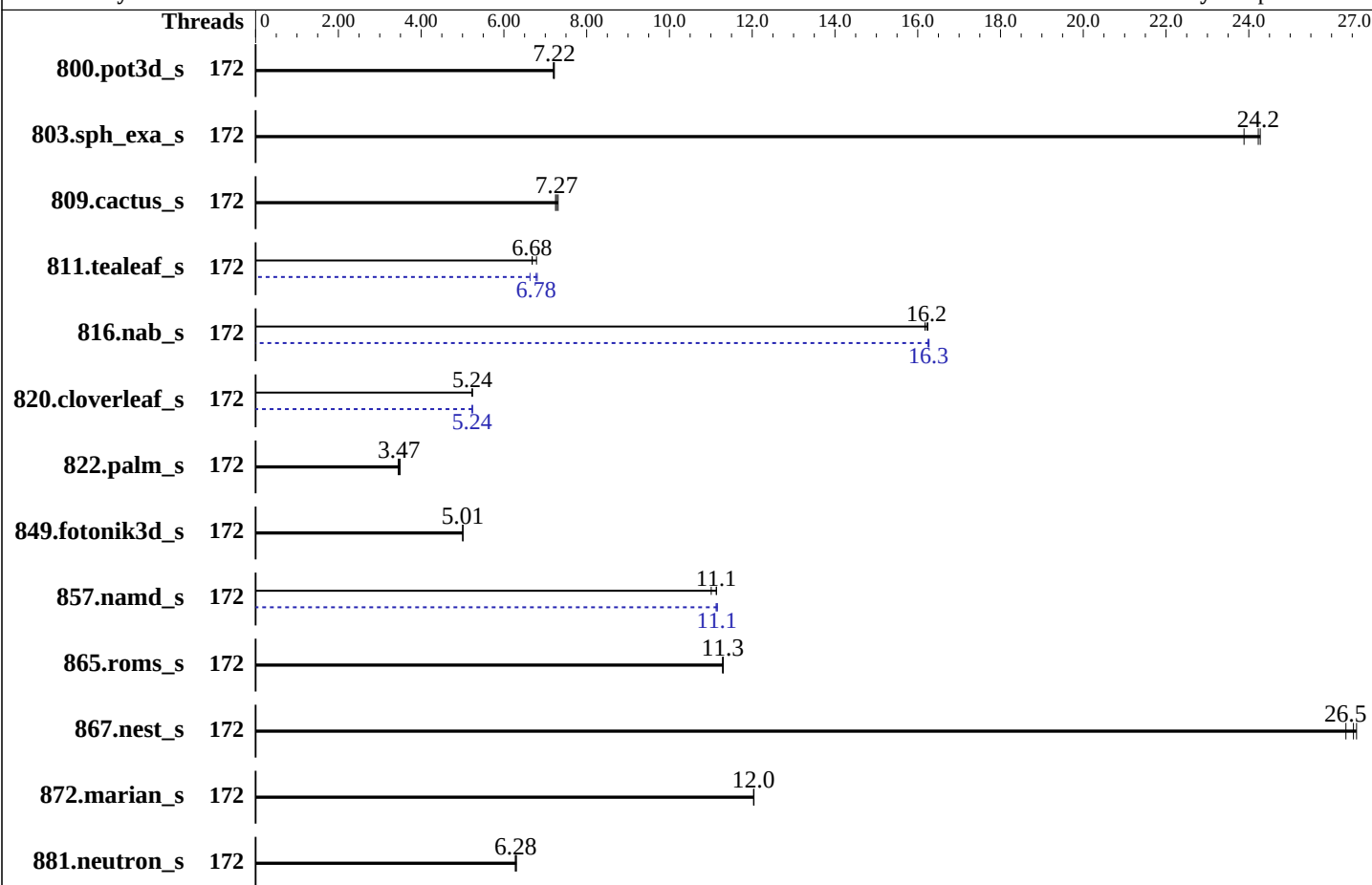
Test Sponsor: HPE

Tested by: HPE

Test Date: Sep-2026

Hardware Availability: Oct-2026

Software Availability: Apr-2026



Hardware

CPU Name: Intel Xeon 6787P
Max MHz: 3800
Nominal: 2000
Enabled: 86 cores, 1 chip, 2 threads/core
Orderable: 1 Chip
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: 512 GB (8 x 64 GB 2Rx4 PC5-6400B-R)
Storage: 1 x 480 GB NVMe SSD
Cooling: Air
Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP7
Kernel 6.4.0-150700.53.6-default
Compiler: C/C++: Version 2026.0 of Intel oneAPI DPC++/C++ Compiler for Linux;
Fortran: Version 2026.0 of Intel Fortran Compiler for Linux
Compiler Category: Vendor
Firmware: HPE BIOS Version v1.86 08/04/2026 released Aug-2026
File System: btrfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other: jemalloc memory allocator v5.3
Power Management: BIOS set to prefer performance at the cost of additional power usage



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Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
800.pot3d_s	172	93.6	7.19	93.3	7.22	<u>93.3</u>	<u>7.22</u>	172	93.6	7.19	93.3	7.22	<u>93.3</u>	<u>7.22</u>
803.sph_exa_s	172	51.0	24.3	<u>51.1</u>	<u>24.2</u>	51.8	23.9	172	51.0	24.3	<u>51.1</u>	<u>24.2</u>	51.8	23.9
809.cactus_s	172	155	7.25	153	7.31	<u>154</u>	<u>7.27</u>	172	155	7.25	153	7.31	<u>154</u>	<u>7.27</u>
811.tealeaf_s	172	83.4	6.68	82.1	6.79	<u>83.3</u>	<u>6.68</u>	172	<u>82.2</u>	<u>6.78</u>	84.0	6.63	81.8	6.81
816.nab_s	172	69.6	16.2	<u>69.4</u>	<u>16.2</u>	69.3	16.2	172	<u>69.3</u>	<u>16.3</u>	69.2	16.3	69.3	16.3
820.cloverleaf_s	172	164	5.23	<u>164</u>	<u>5.24</u>	164	5.24	172	164	5.24	<u>164</u>	<u>5.24</u>	164	5.23
822.palm_s	172	352	3.49	<u>354</u>	<u>3.47</u>	356	3.45	172	352	3.49	<u>354</u>	<u>3.47</u>	356	3.45
849.fotonik3d_s	172	132	5.01	<u>132</u>	<u>5.01</u>	132	5.01	172	132	5.01	<u>132</u>	<u>5.01</u>	132	5.01
857.namd_s	172	130	11.1	<u>130</u>	<u>11.1</u>	132	11.0	172	<u>130</u>	<u>11.1</u>	130	11.1	130	11.2
865.roms_s	172	96.6	11.3	<u>96.5</u>	<u>11.3</u>	96.4	11.3	172	96.6	11.3	<u>96.5</u>	<u>11.3</u>	96.4	11.3
867.nest_s	172	<u>81.4</u>	<u>26.5</u>	82.0	26.3	81.2	26.6	172	<u>81.4</u>	<u>26.5</u>	82.0	26.3	81.2	26.6
872.marian_s	172	<u>89.9</u>	<u>12.0</u>	89.9	12.0	89.8	12.0	172	<u>89.9</u>	<u>12.0</u>	89.9	12.0	89.8	12.0
881.neutron_s	172	130	6.28	129	6.30	<u>130</u>	<u>6.28</u>	172	130	6.28	129	6.30	<u>130</u>	<u>6.28</u>

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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"
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
tuned-adm profile was stopped using 'systemctl stop tuned'

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu2026/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.
NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) 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)

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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-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

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 Configurations : Parameters are selected in the order shown below

Workload Profile set to General Peak Frequency Compute

Thermal Configuration set to Maximum Cooling

Enhanced Processor Performance Profile set to Aggressive

Memory Patrol Scrubbing set to Disabled

Sysinfo program /home/cpu2026/bin/sysinfo

Rev: 779ab21020787073335a329f3a45e2cd

running on localhost Sun Sep 13 12:55:29 2026

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

Table of contents

1. uname -srv
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 254 (254.27+suse.167.g130293e510)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. tuned-adm active
16. sysctl
17. /sys/kernel/mm/transparent_hugepage
18. /sys/kernel/mm/transparent_hugepage/khugepaged
19. OS release
20. Disk information
21. /sys/devices/virtual/dmi/id
22. dmidecode

(Continued on next page)



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Platform Notes (Continued)

23. BIOS

1. uname -srv

```
Linux 6.4.0-150700.53.6-default #1 SMP PREEMPT_DYNAMIC Tue Jul 1 14:54:47 UTC 2025 (8ab7501) x86_64
```

2. w

```
12:55:29 up 3:13, 5 users, load average: 75.32, 40.12, 37.00
USER      TTY      FROM          LOGIN@   IDLE   JCPU   PCPU WHAT
root      pts/0    172.16.0.100  12:14   40:22  0.02s  0.02s -bash
```

3. Username

From environment variable \$USER: root

4. ulimit -a

```
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size               (blocks, -f) unlimited
pending signals         (-i) 2061838
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) 2061838
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited
```

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@notty
bash -c cd $SPEC/ && $SPEC/reportable-ic2026.0-lin-graniterapids-speed-smt-on-20260429.sh
runcpu --nobuild --reportable --action validate --define default-platform-flags -c
ic2026.0-graniterapids-cpu2026-1.0.1-speed-20260429.cfg --threads 172 --define cores=86 --tune base,peak
--n=3 -o all i--define smt-on --define drop_caches fpspeed
runcpu --nobuild --reportable --action validate --define default-platform-flags --configfile
```

(Continued on next page)



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Platform Notes (Continued)

```
ic2026.0-graniterapids-cpu2026-1.0.1-speed-20260429.cfg --threads 172 --define cores=86 --tune base,peak
--iterations 3 --output_format all --define drop_caches --nopower --runmode speed --tune base:peak --size
refspeed fpspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.002/templogs/preenv.fpspeed.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2026
```

6. /proc/cpuinfo

```
model name      : Intel(R) Xeon(R) 6787P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 173
stepping        : 1
microcode       : 0x1000434
bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores       : 86
siblings        : 172
1 physical ids  (chips)
172 processors  (hardware threads)
physical id 0:  core ids 0-42,64-106
physical id 0:  apicids 0-85,128-213
```

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 2.40.4:

```
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):                 172
On-line CPU(s) list:    0-171
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):              1
Stepping:               1
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
```

(Continued on next page)



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Platform Notes (Continued)

nopl xtopology nonstop_tsc cpuid aperfmperf tsc_known_freq pni
pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma
cx16 xtptr pdc_m 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 vnmi 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_l1d arch_capabilities

Virtualization:

VT-x

L1d cache:

4 MiB (86 instances)

L1i cache:

5.4 MiB (86 instances)

L2 cache:

172 MiB (86 instances)

L3 cache:

336 MiB (1 instance)

NUMA node(s):

1

NUMA node0 CPU(s):

0-171

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 Tsx async abort:

Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	4M	12	Data	1	64	1	64
L1i	64K	5.4M	16	Instruction	1	64	1	64
L2	2M	172M	16	Unified	2	2048	1	64

(Continued on next page)



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Platform Notes (Continued)

L3	336M	336M	16 Unified	3 344064	1	64
----	------	------	------------	----------	---	----

8. numactl --hardware

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

available: 1 nodes (0)

node 0 cpus: 0-171

node 0 size: 515492 MB

node 0 free: 437865 MB

node distances:

node 0

0: 10

9. /proc/meminfo

MemTotal: 527864512 kB

10. who -r

run-level 3 Sep 13 09:43

11. Systemd service manager version: systemd 254 (254.27+suse.167.g130293e510)

Default Target	Status
----------------	--------

multi-user	running
------------	---------

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
-------	------------

enabled	ModemManager YaST2-Firstboot YaST2-Second-Stage apparmor appstream-sync-cache auditd bluetooth cron display-manager getty@ irqbalance issue-generator kbdsettings klog lvm2-monitor nsd nvme-fc-boot-connections nvme-autoconnect postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny wpa_supplicant
---------	---

enabled-runtime	systemd-remount-fs
-----------------	--------------------

disabled	NetworkManager NetworkManager-dispatcher NetworkManager-wait-online accounts-daemon autofs autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed debug-shell dnsmasq ebttables exchange-bmc-os-info firewalld fsidd gnome-remote-desktop gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievad issue-add-ssh-keys kexec-load lunmask man-db-create multipathd nfs nfs-blkmap nmb openvpn@ ostree-remount ostree-state-overlay@ rpcbind rpmconfigcheck rsyncd rtkit-daemon samba-bgqd serial-getty@ smartd-generate_opts smb snmpd snmptrapd speech-dispatcherd systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysexit systemd-time-wait-sync systemd-timesyncd tuned udisks2 update-system-flatpaks upower vncserver@ wpa_supplicant@ pcscd saned@ systemd-userdbd wickedd
----------	--

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Platform Notes (Continued)

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

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.53.6-default

root=UUID=9172b5b6-752c-43ce-a95b-cfbfd26bd0db

splash=silent

mitigations=auto

quiet

security=apparmor

14. cpupower frequency-info

analyzing CPU 55:

Unable to determine current policy

boost state support:

Supported: yes

Active: yes

15. tuned-adm active

It seems that tuned daemon is not running, preset profile is not activated.

Preset profile: balanced

16. sysctl

kernel.numa_balancing 0

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

17. /sys/kernel/mm/transparent_hugepage

defrag always defer defer+madvise [madvise] never

(Continued on next page)



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Platform Notes (Continued)

enabled [always] madvise never
hpage_pmd_size 2097152
shmem_enabled always within_size advise [never] deny force

18. /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

19. OS release

From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP7

20. Disk information

SPEC is set to: /home/cpu2026

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0n1p2	btrfs	447G	293G	151G	67%	/home

21. /sys/devices/virtual/dmi/id

Vendor: HPE
Product: HPE ProLiant Compute EL240 Gen12
Product Family: ProLiant
Serial: PZLKVX2LMMG01J

22. 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:

8x Micron MTC40F2046S1RC64BD2 QSFF 64 GB 2 rank 6400

23. BIOS

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

BIOS Vendor: HPE
BIOS Version: 1.86

(Continued on next page)



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Platform Notes (Continued)

BIOS Date: 08/04/2026

BIOS Revision: 1.86

Firmware Revision: 1.25

Compiler Version Notes

```
=====
C      | 811.tealeaf_s(base, peak) 816.nab_s(base, peak) 881.neutron_s(base,
      | peak)
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
=====
```

```
=====
C++    | 803.sph_exa_s(base, peak) 857.namd_s(base, peak) 867.nest_s(base,
      | peak) 872.marian_s(base, peak)
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
=====
```

```
=====
C++, C | 809.cactus_s(base, peak)
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
=====
```

```
=====
Fortran | 800.pot3d_s(base, peak) 820.cloverleaf_s(base, peak)
      | 822.palm_s(base, peak) 849.fotonik3d_s(base, peak) 865.roms_s(base,
      | peak)
=====
```

```
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version
2026.0.0 Build 20260331
Copyright (C) 1985-2026 Intel Corporation. All rights reserved.
=====
```



SPEC CPU®2026 Floating Point Speed Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant Compute EL240 Gen12
(2.00 GHz, Intel Xeon 6787P)

SPECspeed®2026_fp_base = 9.15

SPECspeed®2026_fp_peak = 9.16

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Sep-2026

Hardware Availability: Oct-2026

Software Availability: Apr-2026

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both C and C++:

icpx icx

Base Optimization Flags

C benchmarks:

-m64 -std=c18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-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:

-m64 -std=c++17 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xgraniterapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -pthread
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Fortran benchmarks:

-m64 -stand f18 -Wl,-z,muldefs -Wl,-plugin-opt=-inline-threshold=1500
-xgraniterapids -mprefer-vector-width=512 -O3 -ffp-model=fast -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -DSPEC_OPENMP
-fiopenmp -L/usr/local/jemalloc-5.3.0/lib -ljemalloc

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -Wl,-z,muldefs
-Wl,-plugin-opt=-inline-threshold=1500 -xgraniterapids
-mprefer-vector-width=512 -O3 -ffp-model=fast -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-pthread -L/usr/local/jemalloc-5.3.0/lib -ljemalloc



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Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both C and C++:

icpx icx

Peak Optimization Flags

C benchmarks:

```
811.tealeaf_s: -m64 -std=c18 -Wl, -z,muldefs
-Wl, -plugin-opt=-inline-threshold=1500
-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 -fiopenmp -DSPEC_OPENMP
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

816.nab_s: Same as 811.tealeaf_s

881.neutron_s: basepeak = yes

C++ benchmarks:

803.sph_exa_s: basepeak = yes

```
857.namd_s: -m64 -std=c++17 -Wl, -z,muldefs
-Wl, -plugin-opt=-inline-threshold=1500
-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 -pthread -fiopenmp
-DSPEC_OPENMP -L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

867.nest_s: basepeak = yes

(Continued on next page)



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SPECspeed®2026_fp_base = 9.15

SPECspeed®2026_fp_peak = 9.16

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Sep-2026

Hardware Availability: Oct-2026

Software Availability: Apr-2026

Peak Optimization Flags (Continued)

872.marian_s: basepeak = yes

Fortran benchmarks:

800.pot3d_s: basepeak = yes

820.cloverleaf_s: -m64 -stand f18 -wl, -z, muldefs
-wl, -plugin-opt=-inline-threshold=1500
-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 -03
-mfpmath=sse -funroll-loops -nostandard-realloc-lhs
-align array32byte -auto -DSPEC_OPENMP -fiopenmp
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

822.palm_s: basepeak = yes

849.fotonik3d_s: basepeak = yes

865.roms_s: basepeak = yes

Benchmarks using both C and C++:

809.cactus_s: basepeak = yes

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.html>

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-GNR-rev1.5.html>

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

<http://www.spec.org/cpu2026/results/flags/Intel-ic2026-official-linux64-v1.1.xml>

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-GNR-rev1.5.xml>

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Tested with SPEC CPU®2026 v1.0.1 on 2026-09-13 03:25:29-0400.

Report generated on 2026-10-07 10:41:47 by CPU2026 PDF formatter (unknown).

Originally published on 2026-10-06.