



SPEC CPU®2026 Floating Point Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Hewlett Packard Enterprise

(Test Sponsor: HPE)

ProLiant Compute DL580 Gen12
(2.00 Ghz, Intel Xeon 6788P)

SPECrate®2026_fp_base = 1180

SPECrate®2026_fp_peak = 1180

CPU2026 License: 3

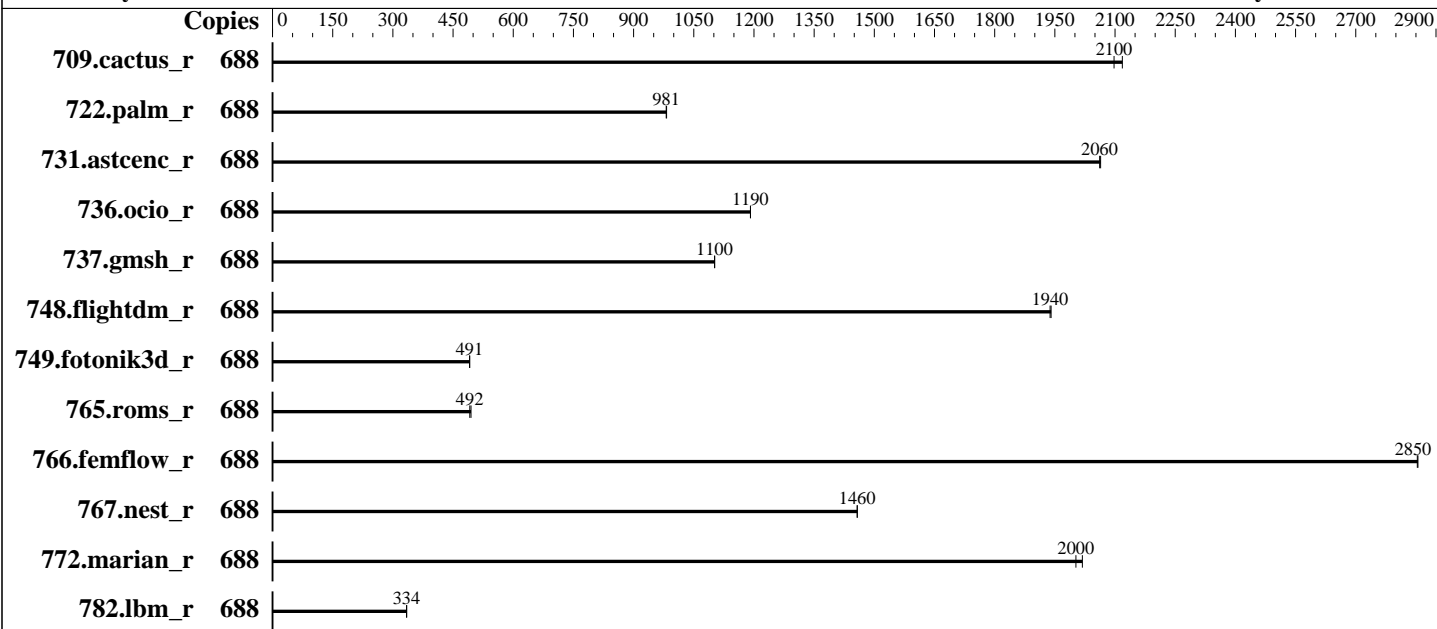
Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



Hardware

CPU Name: Intel Xeon 6788P
 Max MHz: 3800
 Nominal: 2000
 Enabled: 344 cores, 4 chips, 2 threads/core
 Orderable: 1,2,4 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: 2 TB (32 x 64 GB 2Rx4 PC5-6400B-R)
 Storage: 1 x 1.6 TB NVMe SSD
 Cooling: Air
 Other: None

Software

OS: Ubuntu 24.04.3 LTS
 Kernel 6.8.0-90-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: HPE BIOS Version v1.60 released Jan-2026
 File System: ext4
 System State: Run level 5 (multi-user, graphical)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other: jemalloc memory allocator v5.3
 Power Management: BIOS is 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	688	279	2120	<u>281</u>	<u>2100</u>			688	279	2120	<u>281</u>	<u>2100</u>		
722.palm_r	688	925	982	<u>926</u>	<u>981</u>			688	925	982	<u>926</u>	<u>981</u>		
731.ascenc_r	688	280	2060	<u>280</u>	<u>2060</u>			688	280	2060	<u>280</u>	<u>2060</u>		
736.ocio_r	688	<u>505</u>	<u>1190</u>	505	1190			688	<u>505</u>	<u>1190</u>	505	1190		
737.gmsh_r	688	<u>287</u>	<u>1100</u>	287	1100			688	<u>287</u>	<u>1100</u>	287	1100		
748.flightdm_r	688	254	1940	<u>254</u>	<u>1940</u>			688	254	1940	<u>254</u>	<u>1940</u>		
749.fotonik3d_r	688	1618	492	<u>1620</u>	<u>491</u>			688	1618	492	<u>1620</u>	<u>491</u>		
765.roms_r	688	<u>2204</u>	<u>492</u>	2190	495			688	<u>2204</u>	<u>492</u>	2190	495		
766.femflow_r	688	<u>354</u>	<u>2850</u>	354	2860			688	<u>354</u>	<u>2850</u>	354	2860		
767.nest_r	688	374	1460	<u>374</u>	<u>1460</u>			688	374	1460	<u>374</u>	<u>1460</u>		
772.marian_r	688	538	2020	<u>542</u>	<u>2000</u>			688	538	2020	<u>542</u>	<u>2000</u>		
782.lbm_r	688	<u>1181</u>	<u>334</u>	1178	335			688	<u>1181</u>	<u>334</u>	1178	335		

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

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/cpu2026/lib"
MALLOC_CONF = "retain:true"



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General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using Red Hat Enterprise Linux 8.4

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) 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 RedHat Enterprise 7.5, and the system compiler gcc 4.8.5 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 Throughput Compute

Enhanced Processor Performance Profile set to Aggressive

Thermal Configuration set to Maximum Cooling

Memory Patrol Scrubbing set to Disabled

Last Level Cache (LLC) Prefetch set to Enabled

XPT Prefetch set to Disabled

Intel UPI Prefetch set to Disabled

Workload Profile set to Custom

DCU Stream Prefetcher set to Disabled

Adjacent Sector Prefetch set to Disabled

Sysinfo program /home/cpu2026/bin/sysinfo

Rev: 069f95da7e7f5d81b2ce48a82150e54f

running on admin1 Fri Feb 6 05:02:11 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 255 (255.4-lubuntu8.12)

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Platform Notes (Continued)

- 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
- 23. BIOS

```
1. uname -srvm
Linux 6.8.0-90-generic #91-Ubuntu SMP PREEMPT_DYNAMIC Tue Nov 18 14:14:30 UTC 2025 x86_64
```

```
2. w
05:02:11 up 2:57, 2 users, load average: 404.81, 605.35, 628.38
USER      TTY      FROM          LOGIN@      IDLE        JCPU      PCPU      WHAT
admin1    -        172.16.0.100  02:11      2:57m      0.00s     0.03s     sshd: admin1 [priv]
admin1    tty1    -              02:10      2:51m      0.03s     0.01s     -bash
```

```
3. Username
From environment variable $USER:  root
From the command 'logname':      admin1
```

```
4. ulimit -a
time(seconds)      unlimited
file(blocks)       unlimited
data(kbytes)       unlimited
stack(kbytes)      unlimited
coredump(blocks)   0
memory(kbytes)     unlimited
locked memory(kbytes) 264124516
process            8253571
nofiles            1024
vmemory(kbytes)    unlimited
locks              unlimited
rtprio             0
```

```
5. sysinfo process ancestry
```

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Platform Notes (Continued)

```

/sbin/init
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: admin1 [priv]
sshd: admin1@pts/0
-bash
sudo -i
sudo -i
-bash
-bash
-bash
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 688 -c
ic2025.3-core-avx512-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=344 --define
physicalfirst --define invoke_with_interleave --define drop_caches --tune base -n 2 -o all fprate
runcpu --nobuild --reportable --action validate --define default-platform-flags --copies 688 --configfile
ic2025.3-core-avx512-cpu2026-0.902-rate-20260121.cfg --define smt-on --define cores=344 --define
physicalfirst --define invoke_with_interleave --define drop_caches --tune base --iterations 2
--output_format all --nopower --runmode rate --tune base --size 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
$SPEC = /home/cpu2026

```

```

-----
6. /proc/cpuinfo
   model name      : Intel(R) Xeon(R) 6788P
   vendor_id       : GenuineIntel
   cpu family      : 6
   model           : 173
   stepping        : 1
   microcode       : 0x1000411
   bugs            : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi vmscape
   cpu cores       : 86
   siblings        : 172
   4 physical ids (chips)
   688 processors (hardware threads)
   physical id 0:  core ids 0-42,64-106
   physical id 1:  core ids 0-42,64-106
   physical id 2:  core ids 0-42,64-106
   physical id 3:  core ids 0-42,64-106
   physical id 0:  apicids 0-85,128-213
   physical id 1:  apicids 256-341,384-469
   physical id 2:  apicids 512-597,640-725
   physical id 3:  apicids 768-853,896-981

```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

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Platform Notes (Continued)

From lscpu from util-linux 2.39.3:

```

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):                       688
On-line CPU(s) list:         0-687
Vendor ID:                   GenuineIntel
BIOS Vendor ID:              Intel(R) Corporation
Model name:                  Intel(R) Xeon(R) 6788P
BIOS Model name:             Intel(R) Xeon(R) 6788P  CPU @ 2.0GHz
BIOS CPU family:             179
CPU family:                  6
Model:                       173
Thread(s) per core:         2
Core(s) per socket:         86
Socket(s):                   4
Stepping:                    1
CPU(s) scaling MHz:         22%
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 lahf_lm abm
                             3dnowprefetch cpuid_fault epb cat_l3 cat_l2 cdp_l3 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 hwp
                             hwp_act_window hwp_epp hwp_pkg_req 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 ibpb_exit_to_user

```

```

Virtualization:              VT-x
L1d cache:                   16.1 MiB (344 instances)
L1i cache:                   21.5 MiB (344 instances)
L2 cache:                    688 MiB (344 instances)

```

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Platform Notes (Continued)

```

L3 cache:                                1.3 GiB (4 instances)
NUMA node(s):                             8
NUMA node0 CPU(s):                       0-42,344-386
NUMA node1 CPU(s):                       43-85,387-429
NUMA node2 CPU(s):                       86-128,430-472
NUMA node3 CPU(s):                       129-171,473-515
NUMA node4 CPU(s):                       172-214,516-558
NUMA node5 CPU(s):                       215-257,559-601
NUMA node6 CPU(s):                       258-300,602-644
NUMA node7 CPU(s):                       301-343,645-687
Vulnerability Gather data sampling:      Not affected
Vulnerability Itlb multihit:             Not affected
Vulnerability Lltf:                      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; RSB filling;
                                           PBRSE-eIBRS Not affected; BHI BHI_DIS_S
Vulnerability Srbds:                     Not affected
Vulnerability Tsx async abort:           Not affected
Vulnerability Vmscape:                   Mitigation; IBPB before exit to userspace

```

From `lscpu --cache:`

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	16.1M	12	Data	1	64	1	64
L1i	64K	21.5M	16	Instruction	1	64	1	64
L2	2M	688M	16	Unified	2	2048	1	64
L3	336M	1.3G	16	Unified	3	344064	1	64

8. `numactl --hardware`

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

```

available: 8 nodes (0-7)
node 0 cpus: 0-42,344-386
node 0 size: 257370 MB
node 0 free: 242518 MB
node 1 cpus: 43-85,387-429
node 1 size: 258018 MB
node 1 free: 246250 MB
node 2 cpus: 86-128,430-472
node 2 size: 258018 MB
node 2 free: 246244 MB

```

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Platform Notes (Continued)

```

node 3 cpus: 129-171,473-515
node 3 size: 258018 MB
node 3 free: 246102 MB
node 4 cpus: 172-214,516-558
node 4 size: 258018 MB
node 4 free: 246134 MB
node 5 cpus: 215-257,559-601
node 5 size: 258018 MB
node 5 free: 246056 MB
node 6 cpus: 258-300,602-644
node 6 size: 258018 MB
node 6 free: 246307 MB
node 7 cpus: 301-343,645-687
node 7 size: 257989 MB
node 7 free: 245159 MB
node distances:
node  0  1  2  3  4  5  6  7
  0:  10 12 21 21 21 21 21 21
  1:  12 10 21 21 21 21 21 21
  2:  21 21 10 12 21 21 21 21
  3:  21 21 12 10 21 21 21 21
  4:  21 21 21 21 10 12 21 21
  5:  21 21 21 21 12 10 21 21
  6:  21 21 21 21 21 21 10 12
  7:  21 21 21 21 21 21 12 10

```

```

-----
9. /proc/meminfo
   MemTotal:          2112996128 kB

```

```

-----
10. who -r
    run-level 5 Feb 6 02:05

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.12)
    Default Target   Status
    graphical        running

```

```

-----
12. Services, from systemctl list-unit-files
    STATE          UNIT FILES
    enabled        ModemManager apparmor appport blk-availability cloud-config cloud-final cloud-init
                   cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ gpu-manager
                   grub-common grub-initrd-fallback keyboard-setup lvm2-monitor multipathd
                   networkd-dispatcher open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb
                   snapd sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore

```

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Platform Notes (Continued)

```

systemd-resolved systemd-timesyncd thermald tuned ua-reboot-cmds ubuntu-advantage udisks2
  ufw unattended-upgrades vgauth
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled console-getty debug-shell iscsid nftables rsync serial-getty@ ssh
  systemd-boot-check-no-failures systemd-confext systemd-network-generator
systemd-networkd-wait-online@ systemd-pcrlock-file-system systemd-pcrlock-firmware-code
systemd-pcrlock-firmware-config systemd-pcrlock-machine-id systemd-pcrlock-make-policy
systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext
  systemd-time-wait-sync upower
indirect systemd-sysupdate systemd-sysupdate-reboot uidd
masked cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common

```

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

```

BOOT_IMAGE=/boot/vmlinuz-6.8.0-90-generic
root=UUID=1167c2a9-3418-41e4-8aa6-434d83833b85
ro

```

14. cpupower frequency-info

```

analyzing CPU 661:
  current policy: frequency should be within 800 MHz and 3.80 GHz.
                    The governor "powersave" may decide which speed to use
                    within this range.

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          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

```

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Platform Notes (Continued)

```

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
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 Ubuntu 24.04.3 LTS

```

```

-----
20. Disk information
SPEC is set to: /home/cpu2026
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p2 ext4  1.5T   97G  1.3T   7% /

```

```

-----
21. /sys/devices/virtual/dmi/id
Vendor:          HPE
Product:         HPE ProLiant Compute DL580 Gen12
Product Family: ProLiant
Serial:          7CED2FP013

```

```

-----
22. dmidecode
Additional information from dmidecode 3.5 follows.  WARNING: Use caution when you interpret this section.
The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately

```

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SPEC CPU®2026 Floating Point Rate Result

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(Test Sponsor: HPE)

ProLiant Compute DL580 Gen12
(2.00 Ghz, Intel Xeon 6788P)

SPECrate®2026_fp_base = 1180

SPECrate®2026_fp_peak = 1180

CPU2026 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026

Platform Notes (Continued)

determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

Memory:

31x Hynix HMC94AHBRA480N 64 GB 2 rank 6400

1x Hynix HMC94AHBRA487N 64 GB 2 rank 6400

23. BIOS

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

BIOS Vendor: HPE
BIOS Version: 1.60
BIOS Date: 01/09/2026
BIOS Revision: 1.60
Firmware Revision: 1.19

Compiler Version Notes

=====
C | 782.lbm_r(base)
=====

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) 736.ocio_r(base) 748.flightdm_r(base)
| 766.femflow_r(base) 767.nest_r(base) 772.marian_r(base)
=====

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

=====
C++, C | 709.cactus_r(base) 737.gmsh_r(base)
=====

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

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

(Continued on next page)



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Compiler Version Notes (Continued)

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version
2025.3.0 Build 20251010

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Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

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 -xCORE-AVX512 -O3 -ffp-model=fast
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc-5.3.0/lib -ljemalloc

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Base Optimization Flags (Continued)

C++ benchmarks:

```
-m64 -std=c++17 -Wl,-z,muldefs -xCORE-AVX512 -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 -xCORE-AVX512 -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 -xCORE-AVX512 -O3
-ffp-model=fast -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -L/usr/local/jemalloc-5.3.0/lib -ljemalloc
```

Peak Optimization Flags

C benchmarks:

782.lbm_r: basepeak = yes

C++ benchmarks:

731.astcenc_r: basepeak = yes

736.ocio_r: basepeak = yes

748.flightdm_r: basepeak = yes

766.femflow_r: basepeak = yes

767.nest_r: basepeak = yes

772.marian_r: basepeak = yes

Fortran benchmarks:

722.palm_r: basepeak = yes

749.fotonik3d_r: basepeak = yes

765.roms_r: basepeak = yes

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Peak Optimization Flags (Continued)

Benchmarks using both C and C++:

709.cactus_r: basepeak = yes

737.gmsh_r: basepeak = yes

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

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-GNR-rev1.4.html>

<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64-cpu2026-0.902.html>

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

<http://www.spec.org/cpu2026/results/flags/HPE-Platform-Flags-Intel-GNR-rev1.4.xml>

<http://www.spec.org/cpu2026/results/flags/Intel-ic2025-official-linux64-cpu2026-0.902.xml>

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