



SPEC CPU®2017 Floating Point Rate Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

Compute Scale-up Server 3250

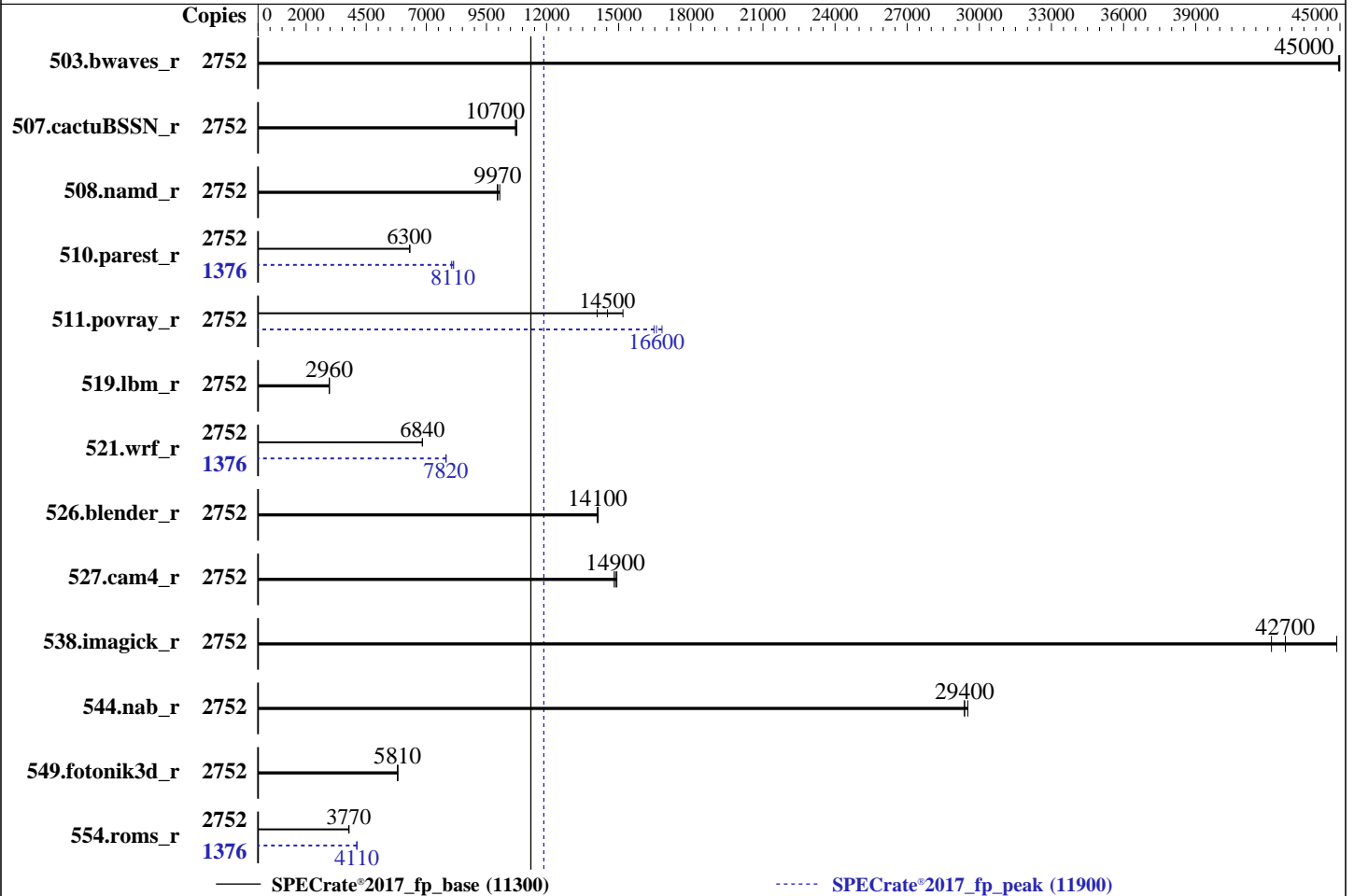
(2.00 GHz, Intel Xeon 6788P)

SPECrate®2017_fp_base = 11300

SPECrate®2017_fp_peak = 11900

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: Feb-2026
Hardware Availability: Apr-2026
Software Availability: Feb-2026



Hardware

CPU Name: Intel Xeon 6788P
Max MHz: 3800
Nominal: 2000
Enabled: 1376 cores, 16 chips, 2 threads/core
Orderable: 4, 8, 12, 16 chip(s)
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: 8 TB (128 x 64 GB 2Rx4 PC5-6400B-R)
Storage: 1 x 1.5 TB NVMe SSD
Other: CPU Cooling: Air

Software

OS: SUSE Linux Enterprise Server 15 SP7
Kernel 6.4.0-150700.53.31-default
Compiler: C/C++: Version 2025.2 of Intel oneAPI DPC++/C++ Compiler for Linux;
Fortran: Version 2025.2 of Intel Fortran Compiler for Linux;
Parallel: No
Firmware: HPE Firmware Bundle Version 1.0.308 01/21/2026 released Jan-2026
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other: jemalloc memory allocator V5.0.1
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
503.bwaves_r	2752	614	44900	613	45000	614	45000	2752	614	44900	613	45000	614	45000
507.cactuBSSN_r	2752	324	10700	324	10800	326	10700	2752	324	10700	324	10800	326	10700
508.namd_r	2752	260	10100	262	9970	263	9950	2752	260	10100	262	9970	263	9950
510.parest_r	2752	1143	6300	1142	6300	1139	6320	1376	444	8110	448	8040	442	8140
511.povray_r	2752	456	14100	442	14500	423	15200	2752	388	16600	382	16800	390	16500
519.lbm_r	2752	979	2960	978	2970	979	2960	2752	979	2960	978	2970	979	2960
521.wrf_r	2752	902	6830	901	6840	902	6840	1376	395	7810	394	7820	394	7820
526.blender_r	2752	297	14100	297	14100	296	14100	2752	297	14100	297	14100	296	14100
527.cam4_r	2752	325	14800	324	14900	322	14900	2752	325	14800	324	14900	322	14900
538.imagick_r	2752	162	42200	153	44900	160	42700	2752	162	42200	153	44900	160	42700
544.nab_r	2752	158	29400	157	29500	158	29400	2752	158	29400	157	29500	158	29400
549.fotonik3d_r	2752	1850	5800	1843	5820	1847	5810	2752	1850	5800	1843	5820	1847	5810
554.roms_r	2752	1159	3770	1154	3790	1160	3770	1376	532	4110	532	4110	531	4120

SPECrate®2017_fp_base = **11300**

SPECrate®2017_fp_peak = **11900**

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/cpu2017/lib/intel64:/home/cpu2017/je5.0.1-64"
MALLOC_CONF = "retain:true"

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)

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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 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 Configuration:

Workload Profile set to Custom

Energy/Performance Bias set to Maximum Performance

Energy Efficient Turbo set to Disabled

Advanced Memory Protection set to Advanced ECC Support

SR-IOV set to Disabled

Intel Virtualization Technology (Intel VT, VT-x) set to Disabled

Adjacent Sector Prefetch set to Disabled

DCU Stream Prefetcher set to Disabled

Last Level Cache (LLC) Dead Line Allocation set to Disabled

Enhanced Processor Performance Profile set to Aggressive

Memory Patrol Scrubbing set to Disabled

Sysinfo program /home/cpu2017/bin/sysinfo

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197

running on gnh-108 Thu Feb 26 21:58:41 2026

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

Table of contents

1. uname -a
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.179.g75eab961ea)
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 -a
Linux gnh-108 6.4.0-150700.53.31-default #1 SMP PREEMPT_DYNAMIC Tue Feb 3 14:18:17 UTC 2026 (73f3a11)

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Platform Notes (Continued)

x86_64 x86_64 x86_64 GNU/Linux

```

-----
2. w
  21:58:42 up  7:51,  2 users,  load average: 1.06, 0.85, 0.92
USER   TTY      FROM             LOGIN@   IDLE   JCPU   PCPU   WHAT
test   ttyS0    -                14:19   1:14   0.28s  0.06s  login -- test
test   pts/0    -                14:20   1:14   2.66s  0.26s  sudo su

```

```

-----
3. Username
From environment variable $USER:  root
From the command 'logname':      test

```

```

-----
4. ulimit -a
core file size          (blocks, -c) 0
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size               (blocks, -f) unlimited
pending signals         (-i) 32505174
max locked memory       (kbytes, -l) 8192
max memory size         (kbytes, -m) unlimited
open files              (-n) 40000
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) 32505174
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited

```

```

-----
5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize=38
login -- test
-bash
sudo su
sudo su
su
bash
/bin/bash ./fprate_reportable.sh fprate.sh
/bin/bash ./fprate_reportable.sh fprate.sh
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=2752 -c
  ic2025.2-lin-graniterapids-rate-20250605.cfg --define smt-on --define cores=1376 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base,peak -o all fprate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=2752 --configfile
  ic2025.2-lin-graniterapids-rate-20250605.cfg --define smt-on --define cores=1376 --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/CPU2017.001/templogs/preenv.fprate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017

```

```

-----
6. /proc/cpuinfo
model name      : Intel(R) Xeon(R) 6788P
vendor_id      : GenuineIntel
cpu family     : 6

```

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Platform Notes (Continued)

```

model          : 173
stepping       : 1
microcode      : 0x1000405
bugs           : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi vmscape
cpu cores      : 86
siblings       : 172
16 physical ids (chips)
2752 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 4: core ids 0-42,64-106
physical id 5: core ids 0-42,64-106
physical id 6: core ids 0-42,64-106
physical id 7: core ids 0-42,64-106
physical id 8: core ids 0-42,64-106
physical id 9: core ids 0-42,64-106
physical id 10: core ids 0-42,64-106
physical id 11: core ids 0-42,64-106
physical id 12: core ids 0-42,64-106
physical id 13: core ids 0-42,64-106
physical id 14: core ids 0-42,64-106
physical id 15: 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
physical id 4: apicids 1024-1109,1152-1237
physical id 5: apicids 1280-1365,1408-1493
physical id 6: apicids 1536-1621,1664-1749
physical id 7: apicids 1792-1877,1920-2005
physical id 8: apicids 2048-2133,2176-2261
physical id 9: apicids 2304-2389,2432-2517
physical id 10: apicids 2560-2645,2688-2773
physical id 11: apicids 2816-2901,2944-3029
physical id 12: apicids 3072-3157,3200-3285
physical id 13: apicids 3328-3413,3456-3541
physical id 14: apicids 3584-3669,3712-3797
physical id 15: apicids 3840-3925,3968-4053

```

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:          52 bits physical, 57 bits virtual
Byte Order:             Little Endian
CPU(s):                 2752
On-line CPU(s) list:   0-2751
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6788P
CPU family:             6
Model:                  173
Thread(s) per core:    2
Core(s) per socket:    86
Socket(s):              16

```

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Platform Notes (Continued)

```

Stepping: 1
CPU(s) scaling MHz: 21%
CPU max MHz: 3800.0000
CPU min MHz: 800.0000
BogoMIPS: 3999.54
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 arch_perfmon pebs bts rep_good nopl
xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64
monitor 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 bmil hle avx2 smep bmi2 erms
invpcid rtm 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 avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni
vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpoperndq
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
ibpb_exit_to_user
L1d cache: 64.5 MiB (1376 instances)
L1i cache: 86 MiB (1376 instances)
L2 cache: 2.7 GiB (1376 instances)
L3 cache: 5.3 GiB (16 instances)
NUMA node(s): 32
NUMA node0 CPU(s): 0-42,1376-1418
NUMA node1 CPU(s): 43-85,1419-1461
NUMA node2 CPU(s): 86-128,1462-1504
NUMA node3 CPU(s): 129-171,1505-1547
NUMA node4 CPU(s): 172-214,1548-1590
NUMA node5 CPU(s): 215-257,1591-1633
NUMA node6 CPU(s): 258-300,1634-1676
NUMA node7 CPU(s): 301-343,1677-1719
NUMA node8 CPU(s): 344-386,1720-1762
NUMA node9 CPU(s): 387-429,1763-1805
NUMA node10 CPU(s): 430-472,1806-1848
NUMA node11 CPU(s): 473-515,1849-1891
NUMA node12 CPU(s): 516-558,1892-1934
NUMA node13 CPU(s): 559-601,1935-1977
NUMA node14 CPU(s): 602-644,1978-2020
NUMA node15 CPU(s): 645-687,2021-2063
NUMA node16 CPU(s): 688-730,2064-2106
NUMA node17 CPU(s): 731-773,2107-2149
NUMA node18 CPU(s): 774-816,2150-2192
NUMA node19 CPU(s): 817-859,2193-2235
NUMA node20 CPU(s): 860-902,2236-2278
NUMA node21 CPU(s): 903-945,2279-2321
NUMA node22 CPU(s): 946-988,2322-2364
NUMA node23 CPU(s): 989-1031,2365-2407
NUMA node24 CPU(s): 1032-1074,2408-2450
NUMA node25 CPU(s): 1075-1117,2451-2493
NUMA node26 CPU(s): 1118-1160,2494-2536
NUMA node27 CPU(s): 1161-1203,2537-2579
NUMA node28 CPU(s): 1204-1246,2580-2622
NUMA node29 CPU(s): 1247-1289,2623-2665

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Platform Notes (Continued)

```

NUMA node30 CPU(s):          1290-1332,2666-2708
NUMA node31 CPU(s):          1333-1375,2709-2751
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/swappgs 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
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	64.5M	12	Data	1	64	1	64
L1i	64K	86M	16	Instruction	1	64	1	64
L2	2M	2.7G	16	Unified	2	2048	1	64
L3	336M	5.3G	16	Unified	3	344064	1	64

8. numactl --hardware

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

```

available: 32 nodes (0-31)
node 0 cpus: 0-42,1376-1418
node 0 size: 256719 MB
node 0 free: 255785 MB
node 1 cpus: 43-85,1419-1461
node 1 size: 250007 MB
node 1 free: 249544 MB
node 2 cpus: 86-128,1462-1504
node 2 size: 258025 MB
node 2 free: 257650 MB
node 3 cpus: 129-171,1505-1547
node 3 size: 250023 MB
node 3 free: 249596 MB
node 4 cpus: 172-214,1548-1590
node 4 size: 258025 MB
node 4 free: 257607 MB
node 5 cpus: 215-257,1591-1633
node 5 size: 250023 MB
node 5 free: 249650 MB
node 6 cpus: 258-300,1634-1676
node 6 size: 258025 MB
node 6 free: 257627 MB
node 7 cpus: 301-343,1677-1719
node 7 size: 250023 MB
node 7 free: 249506 MB
node 8 cpus: 344-386,1720-1762
node 8 size: 258025 MB
node 8 free: 257639 MB

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Platform Notes (Continued)

```

node 9 cpus: 387-429,1763-1805
node 9 size: 250023 MB
node 9 free: 249385 MB
node 10 cpus: 430-472,1806-1848
node 10 size: 258025 MB
node 10 free: 257694 MB
node 11 cpus: 473-515,1849-1891
node 11 size: 250023 MB
node 11 free: 249541 MB
node 12 cpus: 516-558,1892-1934
node 12 size: 258025 MB
node 12 free: 257656 MB
node 13 cpus: 559-601,1935-1977
node 13 size: 250023 MB
node 13 free: 249689 MB
node 14 cpus: 602-644,1978-2020
node 14 size: 258025 MB
node 14 free: 257627 MB
node 15 cpus: 645-687,2021-2063
node 15 size: 250023 MB
node 15 free: 249537 MB
node 16 cpus: 688-730,2064-2106
node 16 size: 258025 MB
node 16 free: 257412 MB
node 17 cpus: 731-773,2107-2149
node 17 size: 250023 MB
node 17 free: 249334 MB
node 18 cpus: 774-816,2150-2192
node 18 size: 257986 MB
node 18 free: 253743 MB
node 19 cpus: 817-859,2193-2235
node 19 size: 250023 MB
node 19 free: 232326 MB
node 20 cpus: 860-902,2236-2278
node 20 size: 258025 MB
node 20 free: 257613 MB
node 21 cpus: 903-945,2279-2321
node 21 size: 250023 MB
node 21 free: 249507 MB
node 22 cpus: 946-988,2322-2364
node 22 size: 258025 MB
node 22 free: 257445 MB
node 23 cpus: 989-1031,2365-2407
node 23 size: 250023 MB
node 23 free: 240636 MB
node 24 cpus: 1032-1074,2408-2450
node 24 size: 258025 MB
node 24 free: 257534 MB
node 25 cpus: 1075-1117,2451-2493
node 25 size: 250023 MB
node 25 free: 249567 MB
node 26 cpus: 1118-1160,2494-2536
node 26 size: 258025 MB
node 26 free: 257516 MB
node 27 cpus: 1161-1203,2537-2579
node 27 size: 250023 MB
node 27 free: 249598 MB
node 28 cpus: 1204-1246,2580-2622
node 28 size: 258025 MB
node 28 free: 257551 MB

```

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Platform Notes (Continued)

```

node 29 cpus: 1247-1289,2623-2665
node 29 size: 250023 MB
node 29 free: 249509 MB
node 30 cpus: 1290-1332,2666-2708
node 30 size: 258025 MB
node 30 free: 257512 MB
node 31 cpus: 1333-1375,2709-2751
node 31 size: 248941 MB
node 31 free: 248420 MB
node distances:
node 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31
0: 10 12 16 16 16 16 18 18 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
1: 12 10 16 16 16 16 18 18 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
2: 16 16 10 12 18 18 16 16 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
3: 16 16 12 10 18 18 16 16 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
4: 16 16 18 18 10 12 16 16 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
5: 16 16 18 18 12 10 16 16 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
6: 18 18 16 16 16 16 10 12 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
7: 18 18 16 16 16 16 12 10 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
8: 40 40 40 40 40 40 40 40 40 40 10 12 16 16 16 16 18 18 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
9: 40 40 40 40 40 40 40 40 40 40 12 10 16 16 16 16 18 18 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
10: 40 40 40 40 40 40 40 40 40 40 16 16 10 12 18 18 16 16 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
11: 40 40 40 40 40 40 40 40 40 40 16 16 12 10 18 18 16 16 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
12: 40 40 40 40 40 40 40 40 40 40 16 16 18 18 10 12 16 16 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
13: 40 40 40 40 40 40 40 40 40 40 16 16 18 18 12 10 16 16 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
14: 40 40 40 40 40 40 40 40 40 40 18 18 16 16 16 16 10 12 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
15: 40 40 40 40 40 40 40 40 40 40 18 18 16 16 16 16 12 10 40 40 40 40 40 40
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40
16: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 10 12 16 16 16 16
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 40
17: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 12 10 16 16 16 16
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 40
18: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 10 12 18 18
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 16 16 40
19: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 12 10 18 18
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 12 10 16 16
20: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 10 12
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 16 16
21: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 12 10
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 16 16
22: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 18 18 16 16 16 16
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 16 16 10 12
23: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 18 18 16 16 16 16
40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 16 16 12 10

```

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Compute Scale-up Server 3250

(2.00 GHz, Intel Xeon 6788P)

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SPECrate®2017_fp_peak = 11900

CPU2017 License: 3
Test Sponsor: HPE
Tested by: HPE

Test Date: Feb-2026
Hardware Availability: Apr-2026
Software Availability: Feb-2026

Platform Notes (Continued)

```

24: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 10
12 16 16 16 16 18 18
25: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 12
10 16 16 16 16 18 18
26: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16
16 10 12 18 18 16 16
27: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16
16 12 10 18 18 16 16
28: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16
16 18 18 10 12 16 16
29: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16
16 18 18 12 10 16 16
30: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 18
18 16 16 16 16 10 12
31: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 18
18 16 16 16 16 12 10

```

```

-----
9. /proc/meminfo
MemTotal:      8321362372 kB

```

```

-----
10. who -r
run-level 3 Feb 26 14:17

```

```

-----
11. Systemd service manager version: systemd 254 (254.27+suse.179.g75eab961ea)
Default Target Status
multi-user      running

```

```

-----
12. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor appstream-sync-cache auditd bluetooth chronyd
cpuset_cpunodemap cpuset_memory_spread cron dcd dcdchkgracefulshutdown dcdshutdown
display-manager getty@ hpe-auto-config hpe_irqbalance iscsi issue-generator kbdsettings
kdump kdump-early kdump-notify klog lvm2-monitor nscd postfix purge-kernels rollback
rsyslog smartd sshd systemd-pstore vgauthd vmblock-fuse vmtoolsd vsftpd wicked
wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime systemd-fsck-root systemd-remount-fs
disabled accounts-daemon amavis apache2 apache2@ autofs autoyast-initscripts blk-availability
bluetooth-mesh boot-sysctl ca-certificates certmonger chrony-wait clamd clamonacc
console-getty cups cups-browsed cxl-monitor debug-shell ebttables exchange-bmc-os-info
firewalld fsidd gpm grub2-once haveged ipmi ipmievdev irqbalance iscsi-init iscsid
issue-add-ssh-keys kexec-load lunmask man-db-create mariadb mariadb@ multipathd named
ndctl-monitor nfs nfs-blkmap nfs-server nfsserver nmb ostree-remount ostree-state-overlay@
rpcbind rpmconfigcheck rsyncd rtkit-daemon samba-bgqd smartd_generate_opts smb snmpd
snmptrapd spamd spampd speech-dispatcherd srp_daemon srp_daemon_port@ sysstat
sysstat_collect sysstat_summary systemd-boot-check-no-failures systemd-confext
systemd-network-generator systemd-sysexit systemd-time-wait-sync systemd-timesyncd tuned
indirect udisks2 update-system-flatpaks upower vncserver@ winbind wsdd ypbind
serial-getty@ systemd-userdbd tftp wickedd

```

```

-----
13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.53.31-default
root=UUID=8f7dbb2d-77d8-40d9-b606-6b60ffd4e6ad
rd.auto=1
console=ttyS0,115200n8
selinux=0

```

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Platform Notes (Continued)

```
security=
splash=silent
mitigations=auto
console=ttyS0,115200
udev.children-max=512
nmi_watchdog=0
uv_nmi.action=kdump
add_efi_memmap
tsc=nowatchdog
earlyprintk=ttyS0,115200
log_buf_len=8M
numa_balancing=disable
crashkernel=1G,high
watchdog_thresh=60
workqueue.watchdog_thresh=120
```

```
-----
14. cpupower frequency-info
analyzing CPU 939:
  current policy: frequency should be within 800 MHz and 3.80 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.

  boost state support:
    Supported: yes
    Active: yes
```

```
-----
15. tuned-adm active
No current active profile.
```

```
-----
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+madvice [madvice] never
enabled        [always] madvice never
hpage_pmd_size 2097152
shmem_enabled  always within_size advise [never] deny force
```

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Platform Notes (Continued)

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
hpe-foundation-release HPE Foundation Software 2.5.9, Build 757.1570.260209T0200.a.sles15sp7hpe-260209T0200
```

20. Disk information

```
SPEC is set to: /home/cpu2017
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme1n1p2 xfs 1.5T 40G 1.5T 3% /
```

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

```
Vendor: HPE
Product: Compute Scale-up Server 3250
Product Family: 1590PID03030202
Serial: 5UFD3H1626-000
```

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:
46x Samsung M321R8GA0EB2-CCPKC 64 GB 2 rank 6400
82x Samsung M321R8GA0EB2-CCPWC 64 GB 2 rank 6400
```

23. BIOS

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

```
BIOS Vendor: HPE
BIOS Version: Bundle:1.0.308-20260123_101935 SFW:010.001.004.000.2601210240
BIOS Date: 01/21/2026
```

Compiler Version Notes

```
=====  
C | 519.lbm_r(base, peak) 538.imagick_r(base, peak) 544.nab_r(base, peak)  
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605  
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.  
=====
```

```
=====  
C++ | 508.namd_r(base, peak) 510.parest_r(base, peak)  
=====
```

```
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
```

(Continued on next page)



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SPECrate®2017_fp_peak = 11900

CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Compiler Version Notes (Continued)

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=====
C++, C | 511.povray_r(base, peak) 526.blender_r(base, peak)
=====

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
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=====
C++, C, Fortran | 507.cactuBSSN_r(base, peak)
=====

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.
Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
Copyright (C) 1985-2025 Intel Corporation. All rights reserved.

=====
Fortran | 503.bwaves_r(base, peak) 549.fotonik3d_r(base, peak) 554.roms_r(base, peak)
=====

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
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=====
Fortran, C | 521.wrf_r(base, peak) 527.cam4_r(base, peak)
=====

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Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
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Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

(Continued on next page)



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CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Base Compiler Invocation (Continued)

Benchmarks using both C and C++:

icpx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx

Base Portability Flags

```

503.bwaves_r: -DSPEC_LP64
507.cactuBSSN_r: -DSPEC_LP64
508.namd_r: -DSPEC_LP64
510.parest_r: -DSPEC_LP64
511.povray_r: -DSPEC_LP64
519.lbm_r: -DSPEC_LP64
521.wrf_r: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
526.blender_r: -DSPEC_LP64 -DSPEC_LINUX -funsigned-char
527.cam4_r: -DSPEC_LP64 -DSPEC_CASE_FLAG
538.imagick_r: -DSPEC_LP64
544.nab_r: -DSPEC_LP64
549.fotonik3d_r: -DSPEC_LP64
554.roms_r: -DSPEC_LP64

```

Base Optimization Flags

C benchmarks:

```

-w -std=c11 -m64 -Wl,-z,muldefs -xgraniterapids -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-Wno-implicit-int -mprefer-vector-width=512 -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib

```

C++ benchmarks:

```

-w -std=c++14 -m64 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -mprefer-vector-width=512 -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib

```

Fortran benchmarks:

```

-w -m64 -Wl,-z,muldefs -xgraniterapids -Ofast -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib

```

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CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Base Optimization Flags (Continued)

Benchmarks using both Fortran and C:

```
-w -m64 -std=c11 -Wl,-z,muldefs -xgraniterapids -Ofast -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-Wno-implicit-int -mprefer-vector-width=512 -nostandard-realloc-lhs
-align array32byte -auto -ljemalloc -L/usr/local/jemalloc64-5.0.1/lib
```

Benchmarks using both C and C++:

```
-w -std=c++14 -m64 -std=c11 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -Wno-implicit-int -mprefer-vector-width=512
-ljemalloc -L/usr/local/jemalloc64-5.0.1/lib
```

Benchmarks using Fortran, C, and C++:

```
-w -m64 -std=c++14 -std=c11 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -Wno-implicit-int -mprefer-vector-width=512
-nostandard-realloc-lhs -align array32byte -auto -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib
```

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Benchmarks using both C and C++:

icpx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx



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CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

519.lbm_r: basepeak = yes

538.imagick_r: basepeak = yes

544.nab_r: basepeak = yes

C++ benchmarks:

508.namd_r: basepeak = yes

510.parest_r: -w -std=c++14 -m64 -Wl,-z,muldefs -xgraniterapids
-Ofast -ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -mprefer-vector-width=512
-ljemalloc -L/usr/local/jemalloc64-5.0.1/lib

Fortran benchmarks:

503.bwaves_r: basepeak = yes

549.fotonik3d_r: basepeak = yes

554.roms_r: -w -m64 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs
-align array32byte -auto -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib

Benchmarks using both Fortran and C:

521.wrf_r: -w -m64 -std=c11 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -Wno-implicit-int
-mprefer-vector-width=512 -nostandard-realloc-lhs
-align array32byte -auto -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib

527.cam4_r: basepeak = yes

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Tested by: HPE

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Software Availability: Feb-2026

Peak Optimization Flags (Continued)

Benchmarks using both C and C++:

```
511.povray_r: -w -std=c++14 -m64 -std=c11 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4 -Wno-implicit-int
-mprefer-vector-width=512 -ljemalloc
-L/usr/local/jemalloc64-5.0.1/lib
```

526.blender_r: basepeak = yes

Benchmarks using Fortran, C, and C++:

507.cactuBSSN_r: basepeak = yes

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

<http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-CSS-GNR-rev1.3.html>

<http://www.spec.org/cpu2017/flags/Intel-ic2025-official-linux64.html>

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

<http://www.spec.org/cpu2017/flags/HPE-Platform-Flags-Intel-CSS-GNR-rev1.3.xml>

<http://www.spec.org/cpu2017/flags/Intel-ic2025-official-linux64.xml>

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Tested with SPEC CPU®2017 v1.1.9 on 2026-02-26 22:58:40-0500.

Report generated on 2026-04-22 06:55:46 by CPU2017 PDF formatter v6716.

Originally published on 2026-04-21.