



SPEC CPU®2017 Floating Point Speed Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

Compute Scale-up Server 3250

(2.00 GHz, Intel Xeon 6788P)

SPECspeed®2017_fp_base = 446

SPECspeed®2017_fp_peak = 446

CPU2017 License: 3

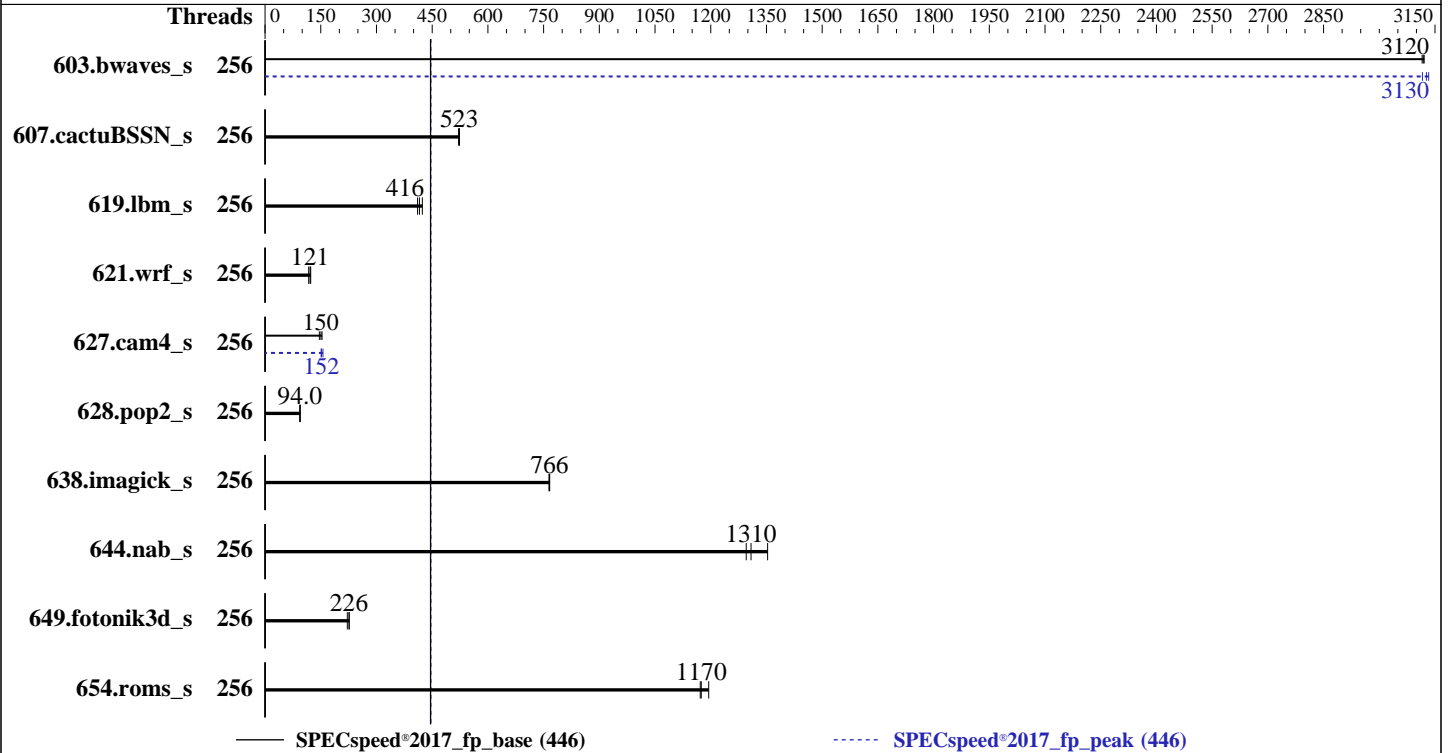
Test Sponsor: HPE

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
 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: Yes
 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 | | | | | | |
|-----------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|---------|-------------|-------------|-------------|------------|-------------|-------------|
| | Threads | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Threads | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 603.bwaves_s | 256 | 18.9 | 3120 | <u>18.9</u> | <u>3120</u> | 18.9 | 3120 | 256 | <u>18.9</u> | <u>3130</u> | 18.8 | 3130 | 18.9 | 3120 |
| 607.cactuBSSN_s | 256 | <u>31.9</u> | <u>523</u> | 31.9 | 523 | 32.0 | 521 | 256 | <u>31.9</u> | <u>523</u> | 31.9 | 523 | 32.0 | 521 |
| 619.lbm_s | 256 | 12.4 | 424 | <u>12.6</u> | <u>416</u> | 12.8 | 411 | 256 | 12.4 | 424 | <u>12.6</u> | <u>416</u> | 12.8 | 411 |
| 621.wrf_s | 256 | 113 | 117 | <u>109</u> | <u>121</u> | 108 | 123 | 256 | 113 | 117 | <u>109</u> | <u>121</u> | 108 | 123 |
| 627.cam4_s | 256 | 57.8 | 153 | 60.6 | 146 | <u>58.9</u> | <u>150</u> | 256 | <u>58.4</u> | <u>152</u> | 58.7 | 151 | 56.8 | 156 |
| 628.pop2_s | 256 | <u>126</u> | <u>94.0</u> | 126 | 94.6 | 127 | 93.8 | 256 | <u>126</u> | <u>94.0</u> | 126 | 94.6 | 127 | 93.8 |
| 638.imagick_s | 256 | 18.9 | 764 | <u>18.8</u> | <u>766</u> | 18.8 | 766 | 256 | 18.9 | 764 | <u>18.8</u> | <u>766</u> | 18.8 | 766 |
| 644.nab_s | 256 | <u>13.4</u> | <u>1310</u> | 12.9 | 1350 | 13.5 | 1300 | 256 | <u>13.4</u> | <u>1310</u> | 12.9 | 1350 | 13.5 | 1300 |
| 649.fotonik3d_s | 256 | 40.2 | 227 | 41.2 | 221 | <u>40.3</u> | <u>226</u> | 256 | 40.2 | 227 | 41.2 | 221 | <u>40.3</u> | <u>226</u> |
| 654.roms_s | 256 | 13.4 | 1170 | 13.2 | 1190 | <u>13.4</u> | <u>1170</u> | 256 | 13.4 | 1170 | 13.2 | 1190 | <u>13.4</u> | <u>1170</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

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,compact"
LD_LIBRARY_PATH = "/home/cpu2017/lib/intel64:/home/cpu2017/je5.0.1-64"
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 Redhat Enterprise Linux 8.0
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 Configuration:
Workload Profile set to HPC
Workload Profile set to Custom

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Platform Notes (Continued)

Power Regulator set to OS Control
 Energy Efficient Turbo set to Disabled
 Energy/Performance Bias set to Maximum Performance
 Intel Hyper-Threading set to Disabled
 Adjacent Sector Prefetch set to Disabled
 LLC Prefetch set to Enabled
 Last Level Cache (LLC) Dead Line Allocation set to Disabled
 Enhanced Processor Performance Profile set to Aggressive
 Memory Patrol Scrubbing 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
 Dynamic Prefetch Throttling set to Disabled
 Enabled Cores per Processor set to 64
 Page Policy set to Open Adaptive
 Sub-NUMA Clustering set to Auto

Sysinfo program /home/cpu2017/bin/sysinfo
 Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
 running on gnh-108 Mon Feb 23 07:38:32 2026

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

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5. sysinfo process ancestry
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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)
 x86_64 x86_64 x86_64 GNU/Linux

 2. w
 07:38:32 up 1:47, 2 users, load average: 0.05, 39.84, 127.48
 USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

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Platform Notes (Continued)

```

test      ttyS0      -           06:01      8.00s  0.10s  0.04s login -- test
test      pts/0        -           06:02      8.00s  0.10s  0.07s sudo -i
root      pts/1        -           07:38      1.00s  0.00s  0.00s sudo ./lin_gnr_fpspeed_test.sh
root      pts/2        -           07:38      1.00s  1.16s  0.00s sudo ./lin_gnr_fpspeed_test.sh

```

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) 32508050
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) 32508050
virtual memory          (kbytes, -v) unlimited
file locks              (-x) unlimited

```

5. sysinfo process ancestry

```

/usr/lib/systemd/systemd --switched-root --system --deserialize=39
login -- test
-bash
sudo -i
sudo -i
-bash
sudo ./run_fpspeed.sh
sudo ./run_fpspeed.sh
/bin/bash ./run_fpspeed.sh
sudo ./lin_gnr_fpspeed_test.sh
sudo ./lin_gnr_fpspeed_test.sh
sh ./lin_gnr_fpspeed_test.sh
runcpu --nobuild --action validate --define default-platform-flags -c
  ic2025.2-lin-graniterapids-speed-20250605.cfg --define cores=256 -n=3 --tune base,peak -o all --define
  drop_caches fpspeed
runcpu --nobuild --action validate --define default-platform-flags --configfile
  ic2025.2-lin-graniterapids-speed-20250605.cfg --define cores=256 --iterations 3 --tune base,peak
  --output_format all --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed
  fpspeed --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.001/templogs/preenv.fpspeed.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
model           : 173

```

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Platform Notes (Continued)

```

stepping          : 1
microcode         : 0x1000405
bugs              : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi vmscape
cpu cores         : 64
siblings          : 64
16 physical ids (chips)
1024 processors (hardware threads)
physical id 0: core ids 0-31,64-95
physical id 1: core ids 0-31,64-95
physical id 2: core ids 0-31,64-95
physical id 3: core ids 0-31,64-95
physical id 4: core ids 0-31,64-95
physical id 5: core ids 0-31,64-95
physical id 6: core ids 0-31,64-95
physical id 7: core ids 0-31,64-95
physical id 8: core ids 0-31,64-95
physical id 9: core ids 0-31,64-95
physical id 10: core ids 0-31,64-95
physical id 11: core ids 0-31,64-95
physical id 12: core ids 0-31,64-95
physical id 13: core ids 0-31,64-95
physical id 14: core ids 0-31,64-95
physical id 15: core ids 0-31,64-95
physical id 0: apicids
0, 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30, 32, 34, 36, 38, 40, 42, 44, 46, 48, 50, 52, 54, 56, 58, 60, 62, 128, 130, 132, 134, 136, 138, 140, 142, 144, 146, 148, 150, 152, 154, 156, 158, 160, 162, 164, 166, 168, 170, 172, 174, 176, 178, 180, 182, 184, 186, 188, 190
physical id 1: apicids
256, 258, 260, 262, 264, 266, 268, 270, 272, 274, 276, 278, 280, 282, 284, 286, 288, 290, 292, 294, 296, 298, 300, 302, 304, 306, 308, 310, 312, 314, 316, 318, 384, 386, 388, 390, 392, 394, 396, 398, 400, 402, 404, 406, 408, 410, 412, 414, 416, 418, 420, 422, 424, 426, 428, 430, 432, 434, 436, 438, 440, 442, 444, 446
physical id 2: apicids
512, 514, 516, 518, 520, 522, 524, 526, 528, 530, 532, 534, 536, 538, 540, 542, 544, 546, 548, 550, 552, 554, 556, 558, 560, 562, 564, 566, 568, 570, 572, 574, 640, 642, 644, 646, 648, 650, 652, 654, 656, 658, 660, 662, 664, 666, 668, 670, 672, 674, 676, 678, 680, 682, 684, 686, 688, 690, 692, 694, 696, 698, 700, 702
physical id 3: apicids
768, 770, 772, 774, 776, 778, 780, 782, 784, 786, 788, 790, 792, 794, 796, 798, 800, 802, 804, 806, 808, 810, 812, 814, 816, 818, 820, 822, 824, 826, 828, 830, 896, 898, 900, 902, 904, 906, 908, 910, 912, 914, 916, 918, 920, 922, 924, 926, 928, 930, 932, 934, 936, 938, 940, 942, 944, 946, 948, 950, 952, 954, 956, 958
physical id 4: apicids
1024, 1026, 1028, 1030, 1032, 1034, 1036, 1038, 1040, 1042, 1044, 1046, 1048, 1050, 1052, 1054, 1056, 1058, 1060, 1062, 1064, 1066, 1068, 1070, 1072, 1074, 1076, 1078, 1080, 1082, 1084, 1086, 1152, 1154, 1156, 1158, 1160, 1162, 1164, 1166, 1168, 1170, 1172, 1174, 1176, 1178, 1180, 1182, 1184, 1186, 1188, 1190, 1192, 1194, 1196, 1198, 1200, 1202, 1204, 1206, 1208, 1210, 1212, 1214
physical id 5: apicids
1280, 1282, 1284, 1286, 1288, 1290, 1292, 1294, 1296, 1298, 1300, 1302, 1304, 1306, 1308, 1310, 1312, 1314, 1316, 1318, 1320, 1322, 1324, 1326, 1328, 1330, 1332, 1334, 1336, 1338, 1340, 1342, 1408, 1410, 1412, 1414, 1416, 1418, 1420, 1422, 1424, 1426, 1428, 1430, 1432, 1434, 1436, 1438, 1440, 1442, 1444, 1446, 1448, 1450, 1452, 1454, 1456, 1458, 1460, 1462, 1464, 1466, 1468, 1470
physical id 6: apicids
1536, 1538, 1540, 1542, 1544, 1546, 1548, 1550, 1552, 1554, 1556, 1558, 1560, 1562, 1564, 1566, 1568, 1570, 1572, 1574, 1576, 1578, 1580, 1582, 1584, 1586, 1588, 1590, 1592, 1594, 1596, 1598, 1664, 1666, 1668, 1670, 1672, 1674, 1676, 1678, 1680, 1682, 1684, 1686, 1688, 1690, 1692, 1694, 1696, 1698, 1700, 1702, 1704, 1706, 1708, 1710, 1712, 1714, 1716, 1718, 1720, 1722, 1724, 1726
physical id 7: apicids
1792, 1794, 1796, 1798, 1800, 1802, 1804, 1806, 1808, 1810, 1812, 1814, 1816, 1818, 1820, 1822, 1824, 1826, 1828, 1830, 1832, 1834, 1836, 1838, 1840, 1842, 1844, 1846, 1848, 1850, 1852, 1854, 1920, 1922, 1924, 1926, 1928, 1930, 1932, 1934, 1936, 1938, 1940, 1942, 1944, 1946, 1948, 1950, 1952, 1954, 1956, 1958, 1960, 1962, 1964, 1966, 1968, 1970, 1972, 1974, 1976, 1978, 1980, 1982
physical id 8: apicids

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Platform Notes (Continued)

2048, 2050, 2052, 2054, 2056, 2058, 2060, 2062, 2064, 2066, 2068, 2070, 2072, 2074, 2076, 2078, 2080, 2082, 2084, 2086, 2088, 2090, 2092, 2094, 2096, 2098, 2100, 2102, 2104, 2106, 2108, 2110, 2176, 2178, 2180, 2182, 2184, 2186, 2188, 2190, 2192, 2194, 2196, 2198, 2200, 2202, 2204, 2206, 2208, 2210, 2212, 2214, 2216, 2218, 2220, 2222, 2224, 2226, 2228, 2230, 2232, 2234, 2236, 2238

physical id 9: apicids

2304, 2306, 2308, 2310, 2312, 2314, 2316, 2318, 2320, 2322, 2324, 2326, 2328, 2330, 2332, 2334, 2336, 2338, 2340, 2342, 2344, 2346, 2348, 2350, 2352, 2354, 2356, 2358, 2360, 2362, 2364, 2366, 2432, 2434, 2436, 2438, 2440, 2442, 2444, 2446, 2448, 2450, 2452, 2454, 2456, 2458, 2460, 2462, 2464, 2466, 2468, 2470, 2472, 2474, 2476, 2478, 2480, 2482, 2484, 2486, 2488, 2490, 2492, 2494

physical id 10: apicids

2560, 2562, 2564, 2566, 2568, 2570, 2572, 2574, 2576, 2578, 2580, 2582, 2584, 2586, 2588, 2590, 2592, 2594, 2596, 2598, 2600, 2602, 2604, 2606, 2608, 2610, 2612, 2614, 2616, 2618, 2620, 2622, 2688, 2690, 2692, 2694, 2696, 2698, 2700, 2702, 2704, 2706, 2708, 2710, 2712, 2714, 2716, 2718, 2720, 2722, 2724, 2726, 2728, 2730, 2732, 2734, 2736, 2738, 2740, 2742, 2744, 2746, 2748, 2750

physical id 11: apicids

2816, 2818, 2820, 2822, 2824, 2826, 2828, 2830, 2832, 2834, 2836, 2838, 2840, 2842, 2844, 2846, 2848, 2850, 2852, 2854, 2856, 2858, 2860, 2862, 2864, 2866, 2868, 2870, 2872, 2874, 2876, 2878, 2944, 2946, 2948, 2950, 2952, 2954, 2956, 2958, 2960, 2962, 2964, 2966, 2968, 2970, 2972, 2974, 2976, 2978, 2980, 2982, 2984, 2986, 2988, 2990, 2992, 2994, 2996, 2998, 3000, 3002, 3004, 3006

physical id 12: apicids

3072, 3074, 3076, 3078, 3080, 3082, 3084, 3086, 3088, 3090, 3092, 3094, 3096, 3098, 3100, 3102, 3104, 3106, 3108, 3110, 3112, 3114, 3116, 3118, 3120, 3122, 3124, 3126, 3128, 3130, 3132, 3134, 3200, 3202, 3204, 3206, 3208, 3210, 3212, 3214, 3216, 3218, 3220, 3222, 3224, 3226, 3228, 3230, 3232, 3234, 3236, 3238, 3240, 3242, 3244, 3246, 3248, 3250, 3252, 3254, 3256, 3258, 3260, 3262

physical id 13: apicids

3328, 3330, 3332, 3334, 3336, 3338, 3340, 3342, 3344, 3346, 3348, 3350, 3352, 3354, 3356, 3358, 3360, 3362, 3364, 3366, 3368, 3370, 3372, 3374, 3376, 3378, 3380, 3382, 3384, 3386, 3388, 3390, 3456, 3458, 3460, 3462, 3464, 3466, 3468, 3470, 3472, 3474, 3476, 3478, 3480, 3482, 3484, 3486, 3488, 3490, 3492, 3494, 3496, 3498, 3500, 3502, 3504, 3506, 3508, 3510, 3512, 3514, 3516, 3518

physical id 14: apicids

3584, 3586, 3588, 3590, 3592, 3594, 3596, 3598, 3600, 3602, 3604, 3606, 3608, 3610, 3612, 3614, 3616, 3618, 3620, 3622, 3624, 3626, 3628, 3630, 3632, 3634, 3636, 3638, 3640, 3642, 3644, 3646, 3712, 3714, 3716, 3718, 3720, 3722, 3724, 3726, 3728, 3730, 3732, 3734, 3736, 3738, 3740, 3742, 3744, 3746, 3748, 3750, 3752, 3754, 3756, 3758, 3760, 3762, 3764, 3766, 3768, 3770, 3772, 3774

physical id 15: apicids

3840, 3842, 3844, 3846, 3848, 3850, 3852, 3854, 3856, 3858, 3860, 3862, 3864, 3866, 3868, 3870, 3872, 3874, 3876, 3878, 3880, 3882, 3884, 3886, 3888, 3890, 3892, 3894, 3896, 3898, 3900, 3902, 3968, 3970, 3972, 3974, 3976, 3978, 3980, 3982, 3984, 3986, 3988, 3990, 3992, 3994, 3996, 3998, 4000, 4002, 4004, 4006, 4008, 4010, 4012, 4014, 4016, 4018, 4020, 4022, 4024, 4026, 4028, 4030

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):                 1024
On-line CPU(s) list:   0-1023
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6788P
CPU family:             6
Model:                  173
Thread(s) per core:    1
Core(s) per socket:    64
Socket(s):              16
Stepping:               1
```

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Platform Notes (Continued)

```

CPU(s) scaling MHz:      21%
CPU max MHz:            3800.0000
CPU min MHz:            800.0000
BogoMIPS:                3999.52
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 bmi1 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_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
                        ibpb_exit_to_user
L1d cache:              48 MiB (1024 instances)
L1i cache:              64 MiB (1024 instances)
L2 cache:               2 GiB (1024 instances)
L3 cache:               5.3 GiB (16 instances)
NUMA node(s):          32
NUMA node0 CPU(s):     0-31
NUMA node1 CPU(s):     32-63
NUMA node2 CPU(s):     64-95
NUMA node3 CPU(s):     96-127
NUMA node4 CPU(s):     128-159
NUMA node5 CPU(s):     160-191
NUMA node6 CPU(s):     192-223
NUMA node7 CPU(s):     224-255
NUMA node8 CPU(s):     256-287
NUMA node9 CPU(s):     288-319
NUMA node10 CPU(s):    320-351
NUMA node11 CPU(s):    352-383
NUMA node12 CPU(s):    384-415
NUMA node13 CPU(s):    416-447
NUMA node14 CPU(s):    448-479
NUMA node15 CPU(s):    480-511
NUMA node16 CPU(s):    512-543
NUMA node17 CPU(s):    544-575
NUMA node18 CPU(s):    576-607
NUMA node19 CPU(s):    608-639
NUMA node20 CPU(s):    640-671
NUMA node21 CPU(s):    672-703
NUMA node22 CPU(s):    704-735
NUMA node23 CPU(s):    736-767
NUMA node24 CPU(s):    768-799
NUMA node25 CPU(s):    800-831
NUMA node26 CPU(s):    832-863
NUMA node27 CPU(s):    864-895
NUMA node28 CPU(s):    896-927
NUMA node29 CPU(s):    928-959
NUMA node30 CPU(s):    960-991

```

(Continued on next page)



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SPECspeed®2017_fp_peak = 446

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

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

Platform Notes (Continued)

```

NUMA node31 CPU(s):          992-1023
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 | 48M | 12 | Data | 1 | 64 | 1 | 64 |
| L1i | 64K | 64M | 16 | Instruction | 1 | 64 | 1 | 64 |
| L2 | 2M | 2G | 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: 0-31
node 0 size: 256990 MB
node 0 free: 255407 MB
node 1 cpus: 32-63
node 1 size: 250021 MB
node 1 free: 245208 MB
node 2 cpus: 64-95
node 2 size: 258039 MB
node 2 free: 257542 MB
node 3 cpus: 96-127
node 3 size: 250037 MB
node 3 free: 248354 MB
node 4 cpus: 128-159
node 4 size: 258039 MB
node 4 free: 257572 MB
node 5 cpus: 160-191
node 5 size: 250037 MB
node 5 free: 248936 MB
node 6 cpus: 192-223
node 6 size: 258039 MB
node 6 free: 256568 MB
node 7 cpus: 224-255
node 7 size: 250037 MB
node 7 free: 249482 MB
node 8 cpus: 256-287
node 8 size: 258039 MB
node 8 free: 257861 MB
node 9 cpus: 288-319

```

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Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Platform Notes (Continued)

```

node 9 size: 250037 MB
node 9 free: 249829 MB
node 10 cpus: 320-351
node 10 size: 258039 MB
node 10 free: 257865 MB
node 11 cpus: 352-383
node 11 size: 250037 MB
node 11 free: 249817 MB
node 12 cpus: 384-415
node 12 size: 258039 MB
node 12 free: 257811 MB
node 13 cpus: 416-447
node 13 size: 250037 MB
node 13 free: 249856 MB
node 14 cpus: 448-479
node 14 size: 258039 MB
node 14 free: 257807 MB
node 15 cpus: 480-511
node 15 size: 250037 MB
node 15 free: 249865 MB
node 16 cpus: 512-543
node 16 size: 258039 MB
node 16 free: 257832 MB
node 17 cpus: 544-575
node 17 size: 250037 MB
node 17 free: 249881 MB
node 18 cpus: 576-607
node 18 size: 258039 MB
node 18 free: 257841 MB
node 19 cpus: 608-639
node 19 size: 250037 MB
node 19 free: 249833 MB
node 20 cpus: 640-671
node 20 size: 258039 MB
node 20 free: 257885 MB
node 21 cpus: 672-703
node 21 size: 250037 MB
node 21 free: 249885 MB
node 22 cpus: 704-735
node 22 size: 258039 MB
node 22 free: 257881 MB
node 23 cpus: 736-767
node 23 size: 250037 MB
node 23 free: 249872 MB
node 24 cpus: 768-799
node 24 size: 258039 MB
node 24 free: 257773 MB
node 25 cpus: 800-831
node 25 size: 250037 MB
node 25 free: 249847 MB
node 26 cpus: 832-863
node 26 size: 258039 MB
node 26 free: 257821 MB
node 27 cpus: 864-895
node 27 size: 250037 MB
node 27 free: 249790 MB
node 28 cpus: 896-927
node 28 size: 258039 MB
node 28 free: 257830 MB
node 29 cpus: 928-959

```

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Platform Notes (Continued)

```

node 29 size: 250037 MB
node 29 free: 249734 MB
node 30 cpus: 960-991
node 30 size: 258000 MB
node 30 free: 257620 MB
node 31 cpus: 992-1023
node 31 size: 248965 MB
node 31 free: 248750 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
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
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
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
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
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
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
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
8: 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
9: 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
10: 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
11: 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
12: 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
13: 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
14: 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
15: 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
16: 40 40 40 40 40 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
17: 40 40 40 40 40 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
18: 40 40 40 40 40 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
19: 40 40 40 40 40 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
20: 40 40 40 40 40 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
21: 40 40 40 40 40 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
22: 40 40 40 40 40 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
23: 40 40 40 40 40 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
24: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 10

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Software Availability: Feb-2026

Platform Notes (Continued)

```

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 186:
  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

```

```

-----
18. /sys/kernel/mm/transparent_hugepage/khugepaged

```

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Platform Notes (Continued)

```
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/nvme1nlp2 xfs 1.5T 39G 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 | 619.lbm_s(base, peak) 638.imagick_s(base, peak) 644.nab_s(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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```
=====  
C++, C, Fortran | 607.cactuBSSN_s(base, peak)  
=====
```

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Compiler Version Notes (Continued)

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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 | 603.bwaves_s(base, peak) 649.fotonik3d_s(base, peak) 654.roms_s(base, peak)

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, C | 621.wrf_s(base, peak) 627.cam4_s(base, peak) 628.pop2_s(base, peak)

Intel(R) Fortran 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
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Base Compiler Invocation

C benchmarks:

icx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

Benchmarks using Fortran, C, and C++:

icpx icx ifx

Base Portability Flags

603.bwaves_s: -DSPEC_LP64
607.cactuBSSN_s: -DSPEC_LP64
619.lbm_s: -DSPEC_LP64
621.wrf_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
627.cam4_s: -DSPEC_LP64 -DSPEC_CASE_FLAG
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
-assume byterecl
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64

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Base Portability Flags (Continued)

649.fotonik3d_s: -DSPEC_LP64
654.roms_s: -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 -fiopenmp
-DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Fortran benchmarks:

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

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 -fiopenmp
-DSPEC_OPENMP -Wno-implicit-int -mprefer-vector-width=512
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Benchmarks using Fortran, 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 -fiopenmp -DSPEC_OPENMP -Wno-implicit-int
-mprefer-vector-width=512 -nostandard-realloc-lhs -align array32byte
-auto -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Peak Compiler Invocation

C benchmarks:

icx

Fortran benchmarks:

ifx

Benchmarks using both Fortran and C:

ifx icx

(Continued on next page)



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SPECspeed®2017_fp_peak = 446

CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Feb-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Peak Compiler Invocation (Continued)

Benchmarks using Fortran, C, and C++:

icpx icx ifx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

619.lbm_s: basepeak = yes

638.imagick_s: basepeak = yes

644.nab_s: basepeak = yes

Fortran benchmarks:

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

649.fotonik3d_s: basepeak = yes

654.roms_s: basepeak = yes

Benchmarks using both Fortran and C:

621.wrf_s: basepeak = yes

627.cam4_s: -w -m64 -std=c11 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-Wno-implicit-int -mprefer-vector-width=512
-nostandard-realloc-lhs -align array32byte -auto
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

628.pop2_s: basepeak = yes

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Software Availability: Feb-2026

Peak Optimization Flags (Continued)

Benchmarks using Fortran, C, and C++:

607.cactuBSSN_s: 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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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

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