



SPEC CPU®2017 Integer 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_int_base = 13.8

SPECspeed®2017_int_peak = 14.1

CPU2017 License: 3

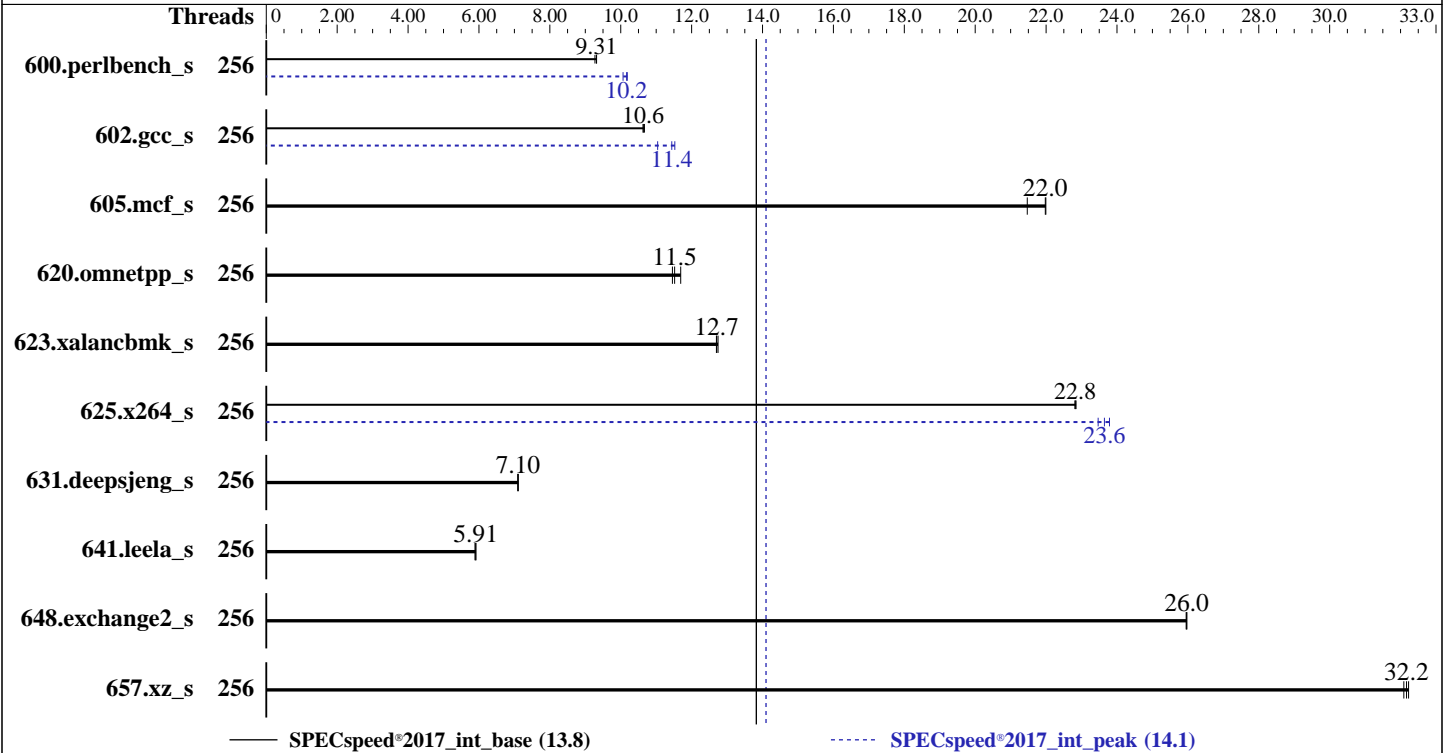
Test Sponsor: HPE

Tested by: HPE

Test Date: Mar-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
600.perlbench_s	256	191	9.27	190	9.32	<u>191</u>	<u>9.31</u>	256	176	10.1	<u>175</u>	<u>10.2</u>	174	10.2
602.gcc_s	256	374	10.6	373	10.7	<u>374</u>	<u>10.6</u>	256	361	11.0	<u>348</u>	<u>11.4</u>	345	11.5
605.mcf_s	256	220	21.5	<u>215</u>	<u>22.0</u>	215	22.0	256	220	21.5	<u>215</u>	<u>22.0</u>	215	22.0
620.omnetpp_s	256	<u>142</u>	<u>11.5</u>	142	11.5	139	11.7	256	<u>142</u>	<u>11.5</u>	142	11.5	139	11.7
623.xalancbmk_s	256	<u>112</u>	<u>12.7</u>	112	12.7	111	12.7	256	<u>112</u>	<u>12.7</u>	112	12.7	111	12.7
625.x264_s	256	77.3	22.8	<u>77.3</u>	<u>22.8</u>	77.2	22.8	256	74.2	23.8	<u>74.6</u>	<u>23.6</u>	75.2	23.5
631.deepsjeng_s	256	<u>202</u>	<u>7.10</u>	202	7.10	202	7.11	256	<u>202</u>	<u>7.10</u>	202	7.10	202	7.11
641.leela_s	256	289	5.91	<u>289</u>	<u>5.91</u>	290	5.89	256	289	5.91	<u>289</u>	<u>5.91</u>	290	5.89
648.exchange2_s	256	<u>113</u>	<u>26.0</u>	113	26.0	113	26.0	256	<u>113</u>	<u>26.0</u>	113	26.0	113	26.0
657.xz_s	256	192	32.2	<u>192</u>	<u>32.2</u>	193	32.1	256	192	32.2	<u>192</u>	<u>32.2</u>	193	32.1

SPECspeed®2017_int_base = **13.8**

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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,scatter"
LD_LIBRARY_PATH = "/home/cpu2017/lib/intel64:/home/cpu2017/je5.0.1-64"
MALLOCONF = "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
```



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Platform Notes

BIOS Configuration:

Workload Profile set to Custom

Intel Hyper-Threading set to Disabled

Enabled Cores per Processor set to 64

Dynamic Prefetch Throttling set to Disabled

Sub-NUMA Clustering set to Auto

Sysinfo program /home/cpu2017/bin/sysinfo

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197

running on gnh-108 Fri Mar 20 00:53:20 2026

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

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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)
x86_64 x86_64 x86_64 GNU/Linux

2. w
00:53:20 up 50 min, 3 users, load average: 0.07, 0.05, 0.27

USER	TTY	FROM	LOGIN@	IDLE	JCPU	PCPU	WHAT
test	ttyS0	-	00:07	2.00s	0.15s	0.04s	login -- test
test	pts/0	-	00:07	2.00s	1.34s	0.09s	sudo -i
test	pts/1	10.30.195.94	00:12	40:42	0.02s	0.02s	-bash

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

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Platform Notes (Continued)

```

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) 32508066
   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) 32508066
   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
-bash
runcpu --nobuild --action validate --define default-platform-flags -c
  ic2025.2-lin-sapphirerapids-speed-20250605.cfg --define cores=256 --tune base,peak -o all --define
  intspeedaffinity --define drop_caches intspeed
runcpu --nobuild --action validate --define default-platform-flags --configfile
  ic2025.2-lin-sapphirerapids-speed-20250605.cfg --define cores=256 --tune base,peak --output_format all
  --define intspeedaffinity --define drop_caches --nopower --runmode speed --tune base:peak --size refspeed
  intspeed --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.001/templogs/preenv.intspeed.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
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

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Platform Notes (Continued)

```

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
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,

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Platform Notes (Continued)

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
CPU(s) scaling MHz:    21%
CPU max MHz:           3800.0000
CPU min MHz:           800.0000
BogoMIPS:              3999.46
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 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 intel_ppin cdp_l2 ssbd mba ibrs ibpb stibp
ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad 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
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Platform Notes (Continued)

```

Virtualization:
L1d cache:
L1i cache:
L2 cache:
L3 cache:
NUMA node(s):
NUMA node0 CPU(s):
NUMA node1 CPU(s):
NUMA node2 CPU(s):
NUMA node3 CPU(s):
NUMA node4 CPU(s):
NUMA node5 CPU(s):
NUMA node6 CPU(s):
NUMA node7 CPU(s):
NUMA node8 CPU(s):
NUMA node9 CPU(s):
NUMA node10 CPU(s):
NUMA node11 CPU(s):
NUMA node12 CPU(s):
NUMA node13 CPU(s):
NUMA node14 CPU(s):
NUMA node15 CPU(s):
NUMA node16 CPU(s):
NUMA node17 CPU(s):
NUMA node18 CPU(s):
NUMA node19 CPU(s):
NUMA node20 CPU(s):
NUMA node21 CPU(s):
NUMA node22 CPU(s):
NUMA node23 CPU(s):
NUMA node24 CPU(s):
NUMA node25 CPU(s):
NUMA node26 CPU(s):
NUMA node27 CPU(s):
NUMA node28 CPU(s):
NUMA node29 CPU(s):
NUMA node30 CPU(s):
NUMA node31 CPU(s):
Vulnerability Gather data sampling:
Vulnerability Indirect target selection:
Vulnerability Itlb multihit:
Vulnerability L1tf:
Vulnerability Mds:
Vulnerability Meltdown:
Vulnerability Mmio stale data:
Vulnerability Reg file data sampling:
Vulnerability Retbleed:
Vulnerability Spec rstack overflow:
Vulnerability Spec store bypass:
Vulnerability Spectre v1:

```

```

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 vnni
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
VT-x
48 MiB (1024 instances)
64 MiB (1024 instances)
2 GiB (1024 instances)
5.3 GiB (16 instances)
32
0-31
32-63
64-95
96-127
128-159
160-191
192-223
224-255
256-287
288-319
320-351
352-383
384-415
416-447
448-479
480-511
512-543
544-575
576-607
608-639
640-671
672-703
704-735
736-767
768-799
800-831
832-863
864-895
896-927
928-959
960-991
992-1023
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Mitigation; Speculative Store Bypass disabled via prctl
Mitigation; usercopy/swaps barriers and __user pointer
sanitization

```

(Continued on next page)



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(2.00 GHz, Intel Xeon 6788P)

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SPECspeed®2017_int_peak = 14.1

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

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

Platform Notes (Continued)

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: 256298 MB
node 1 cpus: 32-63
node 1 size: 250021 MB
node 1 free: 249715 MB
node 2 cpus: 64-95
node 2 size: 258039 MB
node 2 free: 257539 MB
node 3 cpus: 96-127
node 3 size: 250037 MB
node 3 free: 249793 MB
node 4 cpus: 128-159
node 4 size: 258039 MB
node 4 free: 257795 MB
node 5 cpus: 160-191
node 5 size: 250037 MB
node 5 free: 249764 MB
node 6 cpus: 192-223
node 6 size: 258039 MB
node 6 free: 257799 MB
node 7 cpus: 224-255
node 7 size: 250037 MB
node 7 free: 249707 MB
node 8 cpus: 256-287
node 8 size: 258039 MB
node 8 free: 257199 MB
node 9 cpus: 288-319
node 9 size: 250037 MB
node 9 free: 249706 MB
node 10 cpus: 320-351
node 10 size: 258039 MB
node 10 free: 257742 MB
node 11 cpus: 352-383
node 11 size: 250037 MB
node 11 free: 249757 MB
node 12 cpus: 384-415
node 12 size: 258039 MB
node 12 free: 257745 MB
node 13 cpus: 416-447
node 13 size: 249998 MB
node 13 free: 249724 MB

```

(Continued on next page)



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Platform Notes (Continued)

```

node 14 cpus: 448-479
node 14 size: 258039 MB
node 14 free: 257708 MB
node 15 cpus: 480-511
node 15 size: 250037 MB
node 15 free: 249782 MB
node 16 cpus: 512-543
node 16 size: 258039 MB
node 16 free: 257858 MB
node 17 cpus: 544-575
node 17 size: 250037 MB
node 17 free: 249888 MB
node 18 cpus: 576-607
node 18 size: 258039 MB
node 18 free: 257883 MB
node 19 cpus: 608-639
node 19 size: 250037 MB
node 19 free: 249882 MB
node 20 cpus: 640-671
node 20 size: 258039 MB
node 20 free: 257882 MB
node 21 cpus: 672-703
node 21 size: 250037 MB
node 21 free: 249867 MB
node 22 cpus: 704-735
node 22 size: 258039 MB
node 22 free: 257865 MB
node 23 cpus: 736-767
node 23 size: 250037 MB
node 23 free: 249863 MB
node 24 cpus: 768-799
node 24 size: 258039 MB
node 24 free: 257723 MB
node 25 cpus: 800-831
node 25 size: 250037 MB
node 25 free: 249788 MB
node 26 cpus: 832-863
node 26 size: 258039 MB
node 26 free: 257746 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: 257679 MB
node 29 cpus: 928-959
node 29 size: 250037 MB
node 29 free: 249780 MB
node 30 cpus: 960-991
node 30 size: 258039 MB
node 30 free: 257742 MB
node 31 cpus: 992-1023
node 31 size: 248965 MB
node 31 free: 248698 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  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
1:  12 10 16 16 16 16 18 18 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40

```

(Continued on next page)



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Platform Notes (Continued)

```

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 40 40 10 12 16 16 16 16 18 18 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
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
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
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
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
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
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
16: 40 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 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 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 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 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 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 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 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 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

```

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Platform Notes (Continued)

18 16 16 16 16 12 10

9. /proc/meminfo
MemTotal: 8322098800 kB

10. who -r
run-level 3 Mar 20 00:07

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 vmtoclsd 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 cxi-monitor debug-shell ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once haveged ipmi ipmievd 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	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
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

(Continued on next page)



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Platform Notes (Continued)

14. cpupower frequency-info

analyzing CPU 77:

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+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 SUSE Linux Enterprise Server 15 SP7

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

(Continued on next page)



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Software Availability: Feb-2026

Platform Notes (Continued)

20. Disk information

SPEC is set to: /home/cpu2017

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/nvme0n1p2	xfs	1.5T	96G	1.4T	7%	/

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 | 600.perlbench_s(base, peak) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak)
  | 657.xz_s(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++ | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak)
    | 641.leela_s(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.

```
====
Fortran | 648.exchange2_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.



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Tested by: HPE

Test Date: Mar-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Base Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Base Portability Flags

```
600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64
602.gcc_s: -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalancbmk_s: -DSPEC_LP64 -DSPEC_LINUX
625.x264_s: -DSPEC_LP64
631.deepsjeng_s: -DSPEC_LP64
641.leela_s: -DSPEC_LP64
648.exchange2_s: -DSPEC_LP64
657.xz_s: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:

```
-w -std=c11 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4 -fiopenmp
-DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

C++ benchmarks:

```
-w -std=c++14 -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fdelayed-template-parsing -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

Fortran benchmarks:

```
-w -m64 -Wl,-z,muldefs -xsapphirerapids -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```



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CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Mar-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Peak Compiler Invocation

C benchmarks:

icx

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

```
600.perlbench_s: -w -m64 -std=c11 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fiopenmp -DSPEC_OPENMP -fno-strict-overflow
-fno-strict-aliasing -L/usr/local/jemalloc64-5.0.1/lib
-ljemalloc
```

```
602.gcc_s: -w -m64 -std=c11 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fiopenmp -DSPEC_OPENMP -L/usr/local/jemalloc64-5.0.1/lib
-ljemalloc
```

```
605.mcf_s: basepeak = yes
```

```
625.x264_s: -w -std=c11 -m64 -Wl,-z,muldefs -xsaphirerapids -O3
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fiopenmp -DSPEC_OPENMP
-fno-alias -L/usr/local/jemalloc64-5.0.1/lib -ljemalloc
```

(Continued on next page)



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CPU2017 License: 3

Test Sponsor: HPE

Tested by: HPE

Test Date: Mar-2026

Hardware Availability: Apr-2026

Software Availability: Feb-2026

Peak Optimization Flags (Continued)

657.xz_s: basepeak = yes

C++ benchmarks:

620.omnetpp_s: basepeak = yes

623.xalancbmk_s: basepeak = yes

631.deepsjeng_s: basepeak = yes

641.leela_s: basepeak = yes

Fortran benchmarks:

648.exchange2_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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