



SPEC CPU®2017 Integer Speed Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

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

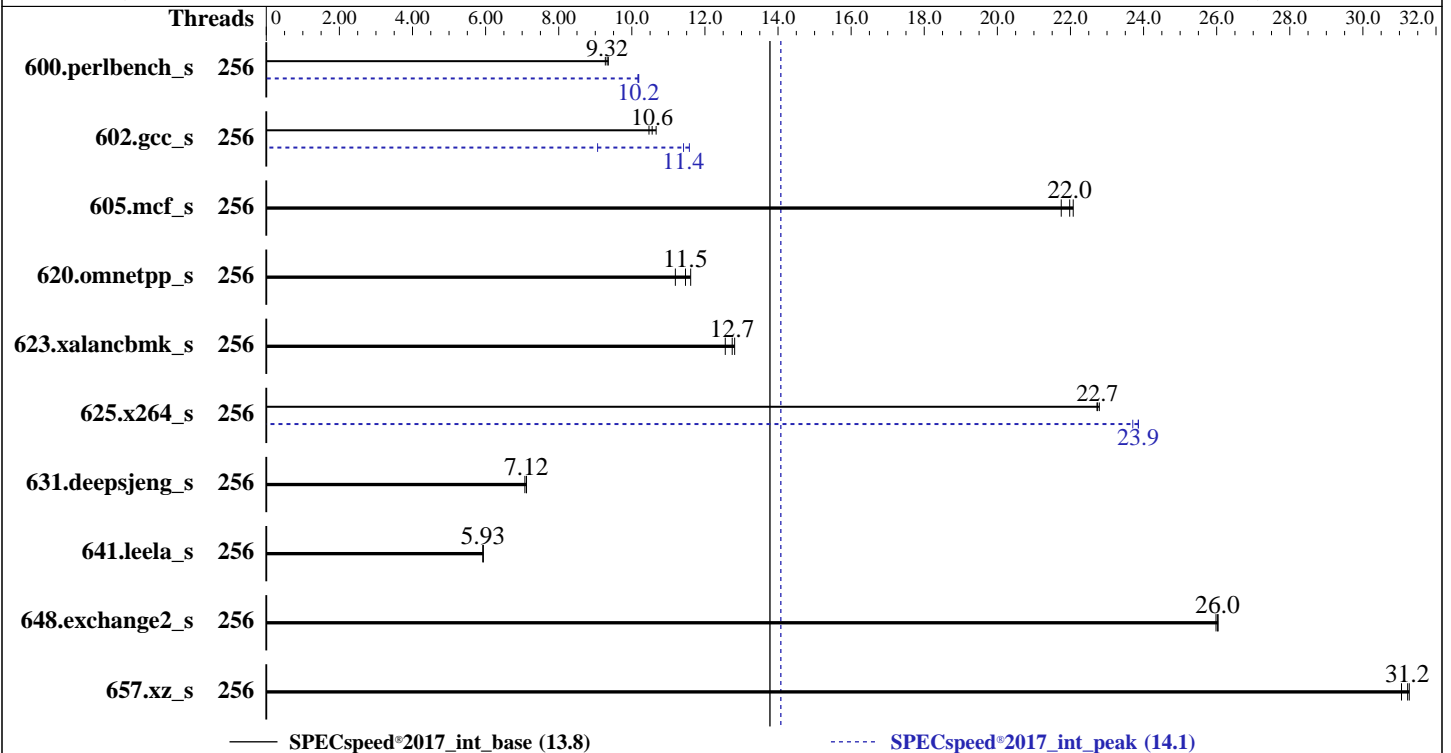
Test Sponsor: HPE

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: 1032 cores, 12 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: 6 TB (96 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	190	9.32	191	9.28	190	9.36	256	174	10.2	174	10.2	175	10.2
602.gcc_s	256	377	10.6	380	10.5	373	10.7	256	349	11.4	344	11.6	439	9.06
605.mcf_s	256	215	22.0	217	21.7	214	22.1	256	215	22.0	217	21.7	214	22.1
620.omnetpp_s	256	142	11.5	146	11.2	140	11.6	256	142	11.5	146	11.2	140	11.6
623.xalancbmk_s	256	113	12.6	111	12.7	111	12.8	256	113	12.6	111	12.7	111	12.8
625.x264_s	256	77.4	22.8	77.6	22.7	77.6	22.7	256	74.4	23.7	73.9	23.9	73.9	23.9
631.deepsjeng_s	256	203	7.07	201	7.12	201	7.12	256	203	7.07	201	7.12	201	7.12
641.leela_s	256	288	5.93	288	5.93	288	5.93	256	288	5.93	288	5.93	288	5.93
648.exchange2_s	256	113	26.0	113	26.0	113	26.0	256	113	26.0	113	26.0	113	26.0
657.xz_s	256	198	31.2	199	31.1	198	31.3	256	198	31.2	199	31.1	198	31.3

SPECspeed®2017_int_base = **13.8**

SPECspeed®2017_int_peak = **14.1**

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_new_vish/lib/intel64:/home/cpu2017_new_vish/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_new_vish/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on gnh-108 Fri Mar 13 23:44:07 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)
x86_64 x86_64 x86_64 GNU/Linux

2. w
23:44:08 up 14:52, 3 users, load average: 3.45, 4.81, 2.94

USER	TTY	FROM	LOGIN@	IDLE	JCPU	PCPU	WHAT
test	ttyS0	-	08:55	13:34m	0.33s	0.04s	login -- test
test	pts/0	-	08:55	13:34m	1.14s	0.29s	sudo su
test	pts/1	10.30.195.94	22:01	1:42m	0.04s	0.04s	-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) 24378855
   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) 24378855
   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 su
sudo su
su
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/CPU2017.005/templogs/preenv.intspeed.005.0.log
  --lognum 005.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017_new_vish

```

```

-----
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
12 physical ids (chips)
768 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

```

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Platform Notes (Continued)

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 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, 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

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Platform Notes (Continued)

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):                       768
On-line CPU(s) list:         0-767
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):                   12
Stepping:                    1
CPU(s) scaling MHz:          21%
CPU max MHz:                 3800.0000
CPU min MHz:                 800.0000
BogoMIPS:                   3999.53
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 cflushopt 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 vnni
                             avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni vaes
                             vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpocntdq 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
Virtualization:              VT-x
L1d cache:                   36 MiB (768 instances)
L1i cache:                   48 MiB (768 instances)
L2 cache:                    1.5 GiB (768 instances)
L3 cache:                    3.9 GiB (12 instances)
NUMA node(s):                24
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

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Platform Notes (Continued)

```

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
Vulnerability Gather data sampling: Not affected
Vulnerability Indirect target selection: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Reg file data sampling: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; PRRSB-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	36M	12	Data	1	64	1	64
L1i	64K	48M	16	Instruction	1	64	1	64
L2	2M	1.5G	16	Unified	2	2048	1	64
L3	336M	3.9G	16	Unified	3	344064	1	64

8. numactl --hardware

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

```

available: 24 nodes (0-23)
node 0 cpus: 0-31
node 0 size: 256992 MB
node 0 free: 256469 MB
node 1 cpus: 32-63
node 1 size: 250021 MB
node 1 free: 249569 MB
node 2 cpus: 64-95
node 2 size: 258039 MB
node 2 free: 257651 MB
node 3 cpus: 96-127
node 3 size: 250037 MB
node 3 free: 249677 MB
node 4 cpus: 128-159

```

(Continued on next page)



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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)

```

node 4 size: 258039 MB
node 4 free: 257654 MB
node 5 cpus: 160-191
node 5 size: 250037 MB
node 5 free: 249558 MB
node 6 cpus: 192-223
node 6 size: 258039 MB
node 6 free: 257693 MB
node 7 cpus: 224-255
node 7 size: 250037 MB
node 7 free: 249605 MB
node 8 cpus: 256-287
node 8 size: 258039 MB
node 8 free: 257711 MB
node 9 cpus: 288-319
node 9 size: 250037 MB
node 9 free: 249743 MB
node 10 cpus: 320-351
node 10 size: 258039 MB
node 10 free: 257751 MB
node 11 cpus: 352-383
node 11 size: 250037 MB
node 11 free: 249739 MB
node 12 cpus: 384-415
node 12 size: 258039 MB
node 12 free: 257688 MB
node 13 cpus: 416-447
node 13 size: 250037 MB
node 13 free: 249712 MB
node 14 cpus: 448-479
node 14 size: 258039 MB
node 14 free: 257715 MB
node 15 cpus: 480-511
node 15 size: 250037 MB
node 15 free: 249746 MB
node 16 cpus: 512-543
node 16 size: 258039 MB
node 16 free: 257426 MB
node 17 cpus: 544-575
node 17 size: 250037 MB
node 17 free: 248461 MB
node 18 cpus: 576-607
node 18 size: 258039 MB
node 18 free: 257518 MB
node 19 cpus: 608-639
node 19 size: 250037 MB
node 19 free: 247669 MB
node 20 cpus: 640-671
node 20 size: 258039 MB
node 20 free: 256859 MB
node 21 cpus: 672-703
node 21 size: 250037 MB
node 21 free: 246136 MB
node 22 cpus: 704-735
node 22 size: 258000 MB
node 22 free: 257533 MB
node 23 cpus: 736-767
node 23 size: 248967 MB
node 23 free: 248421 MB
node distances:

```

(Continued on next page)



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Platform Notes (Continued)

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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
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
16:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	10	12	16	16	16	16	16	18	18
17:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	12	10	16	16	16	16	16	18	18
18:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	16	16	10	12	18	18	16	16	16
19:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	16	16	12	10	18	18	16	16	16
20:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	16	16	18	18	10	12	16	16	16
21:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	16	16	18	18	12	10	16	16	16
22:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	18	18	16	16	16	16	10	12	12
23:	40	40	40	40	40	40	40	40	40	40	40	40	40	40	40	18	18	16	16	16	16	12	10	10

9. /proc/meminfo
MemTotal: 6241020784 kB

10. who -r
run-level 3 Mar 13 08:55

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 firewallld 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-sysextd systemd-time-wait-sync systemd-timesyncd tuned udisks2 update-system-flatpaks upower vncserver@ winbind wsdd ypbind

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Platform Notes (Continued)

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
```

14. cpupower frequency-info

```
analyzing CPU 709:
  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
```

(Continued on next page)



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Platform Notes (Continued)

```
-----
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
-----
```

```
-----
20. Disk information
SPEC is set to: /home/cpu2017_new_vish
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p2 xfs 1.5T 843G 647G 57% /
-----
```

```
-----
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
 50x 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)
```

(Continued on next page)



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Compiler Version Notes (Continued)

| 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.

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



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Test Sponsor: HPE

Tested by: HPE

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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
```

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.profddata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast(pass 1) -xCORE-AVX512 -O3 -ffast-math
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
```

(Continued on next page)



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Peak Optimization Flags (Continued)

600.perlbench_s (continued):

```
-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.profddata(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 -xsapphirerapids -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
```

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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