



SPEC CPU®2017 Integer Rate Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

Compute Scale-up Server 3250

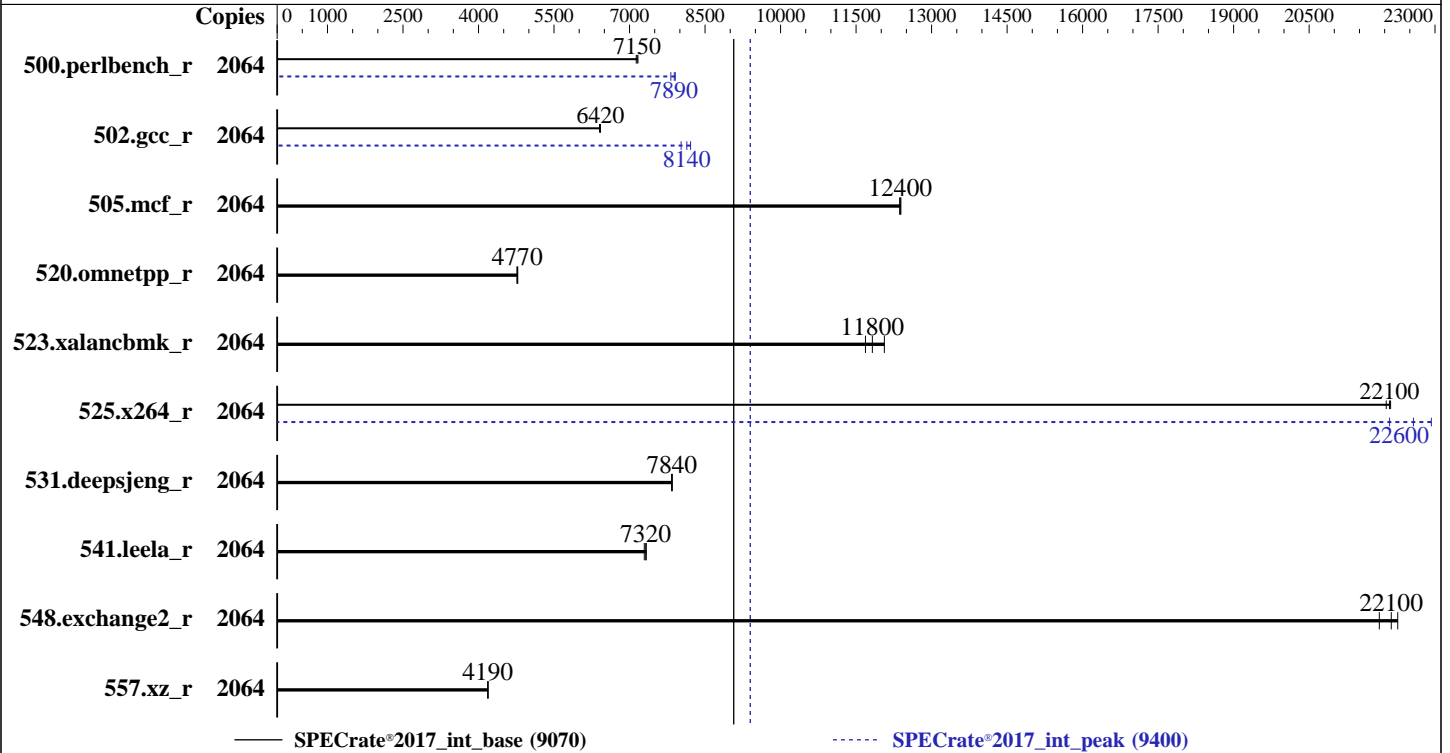
(2.00 GHz, Intel Xeon 6788P)

SPECrate®2017_int_base = 9070

SPECrate®2017_int_peak = 9400

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, 2 threads/core
 Orderable: 4, 8, 12, 16 chip(s)
 Cache L1: 64 KB I + 48 KB D on chip per core
 L2: 2 MB I+D on chip per core
 L3: 336 MB I+D on chip per chip
 Other: None
 Memory: 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;
 C: Version 2024.2.1 of Intel oneAPI DPC++/C++ Compiler for Linux;
 Parallel: No
 Firmware: HPE Firmware Bundle Version 1.0.308 01/21/2026 released Jan-2026
 File System: xfs
 System State: Run level 3 (multi-user)
 Base Pointers: 64-bit
 Peak Pointers: 32/64-bit
 Other: jemalloc memory allocator V5.0.1
 Power Management: BIOS and OS set to prefer performance at the cost of additional power usage



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Results Table

Benchmark	Base						Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	2064	460	7150	458	7170	461	7130	2064	420	7820	415	7910	417	7890
502.gcc_r	2064	455	6420	455	6420	456	6400	2064	359	8140	356	8210	364	8020
505.mcf_r	2064	269	12400	269	12400	270	12400	2064	269	12400	269	12400	270	12400
520.omnetpp_r	2064	568	4770	568	4760	567	4780	2064	568	4770	568	4760	567	4780
523.xalancbmk_r	2064	184	11800	187	11700	181	12100	2064	184	11800	187	11700	181	12100
525.x264_r	2064	164	22000	163	22100	164	22100	2064	160	22600	158	22900	164	22100
531.deepsjeng_r	2064	302	7840	301	7850	302	7840	2064	302	7840	301	7850	302	7840
541.leela_r	2064	469	7290	467	7320	466	7330	2064	469	7290	467	7320	466	7330
548.exchange2_r	2064	244	22100	247	21900	243	22300	2064	244	22100	247	21900	243	22300
557.xz_r	2064	533	4180	532	4190	533	4190	2064	533	4180	532	4190	533	4190

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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

```
Stack size set to unlimited using "ulimit -s unlimited"
Transparent Huge Pages enabled by default
Prior to runcpu invocation
Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
```

Environment Variables Notes

Environment variables set by runcpu before the start of the run:

```
LD_LIBRARY_PATH =
"/home/cpu2017_new_vish/lib/intel64:/home/cpu2017_new_vish/lib/ia32:/home/cpu2017_new_vish/je5.0.1-32"
MALLOCONF = "retain:true"
```

General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM memory using Red Hat Enterprise Linux 8.4
NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.
Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) 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

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General Notes (Continued)

built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5
sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

Platform Notes

BIOS Configuration:

Workload Profile set to Custom

Energy/Performance Bias set to Maximum Performance

Energy Efficient Turbo set to Disabled

Advanced Memory Protection set to Advanced ECC Support

SR-IOV set to Disabled

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

Adjacent Sector Prefetch set to Disabled

DCU Stream Prefetcher set to Disabled

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

Sysinfo program /home/cpu2017_new_vish/bin/sysinfo

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197

running on gnh-108 Mon Mar 2 03:37:53 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
-

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Platform Notes (Continued)

```

2. w
   03:37:54 up 13 min,  1 user,  load average: 0.38, 8.11, 6.85
USER  TTY      FROM          LOGIN@  IDLE   JCPU   PCPU   WHAT
test  ttyS0    -             03:31  15.00s 0.12s  0.05s login -- test
test  pts/0    -             03:31  15.00s 2.09s  0.07s sudo -i

```

```

-----
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) 24376414
   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) 24376414
   virtual memory         (kbytes, -v) unlimited
   file locks              (-x) unlimited

```

```

-----
5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize=38
login -- test
-bash
sudo -i
sudo -i
-bash
-bash
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=2064 -c
  ic2025.2-lin-graniterapids-rate-20250605.cfg --define smt-on --define cores=1032 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base,peak -o all intrate
runcpu --nobuild --action validate --define default-platform-flags --define numcopies=2064 --configfile
  ic2025.2-lin-graniterapids-rate-20250605.cfg --define smt-on --define cores=1032 --define physicalfirst
  --define invoke_with_interleave --define drop_caches --tune base,peak --output_format all --nopower
  --runmode rate --tune base:peak --size refrate intrate --nopreenv --note-preenv --logfile
  $$SPEC/tmp/CPU2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $$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     : 86

```

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Platform Notes (Continued)

```

siblings          : 172
12 physical ids (chips)
2064 processors (hardware threads)
physical id 0: core ids 0-42,64-106
physical id 1: core ids 0-42,64-106
physical id 2: core ids 0-42,64-106
physical id 3: core ids 0-42,64-106
physical id 4: core ids 0-42,64-106
physical id 5: core ids 0-42,64-106
physical id 6: core ids 0-42,64-106
physical id 7: core ids 0-42,64-106
physical id 8: core ids 0-42,64-106
physical id 9: core ids 0-42,64-106
physical id 10: core ids 0-42,64-106
physical id 11: core ids 0-42,64-106
physical id 0: apicids 0-85,128-213
physical id 1: apicids 256-341,384-469
physical id 2: apicids 512-597,640-725
physical id 3: apicids 768-853,896-981
physical id 4: apicids 1024-1109,1152-1237
physical id 5: apicids 1280-1365,1408-1493
physical id 6: apicids 1536-1621,1664-1749
physical id 7: apicids 1792-1877,1920-2005
physical id 8: apicids 2048-2133,2176-2261
physical id 9: apicids 2304-2389,2432-2517
physical id 10: apicids 2560-2645,2688-2773
physical id 11: apicids 2816-2901,2944-3029

```

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):                 2064
On-line CPU(s) list:   0-2063
Vendor ID:              GenuineIntel
Model name:             Intel(R) Xeon(R) 6788P
CPU family:             6
Model:                  173
Thread(s) per core:    2
Core(s) per socket:    86
Socket(s):              12
Stepping:               1
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

```

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Platform Notes (Continued)

ibrs_enhanced fsgsbase tsc_adjust bml 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_l1d arch_capabilities
ibpb_exit_to_user

L1d cache:	48.4 MiB (1032 instances)
L1i cache:	64.5 MiB (1032 instances)
L2 cache:	2 GiB (1032 instances)
L3 cache:	3.9 GiB (12 instances)
NUMA node(s):	24
NUMA node0 CPU(s):	0-42,1032-1074
NUMA node1 CPU(s):	43-85,1075-1117
NUMA node2 CPU(s):	86-128,1118-1160
NUMA node3 CPU(s):	129-171,1161-1203
NUMA node4 CPU(s):	172-214,1204-1246
NUMA node5 CPU(s):	215-257,1247-1289
NUMA node6 CPU(s):	258-300,1290-1332
NUMA node7 CPU(s):	301-343,1333-1375
NUMA node8 CPU(s):	344-386,1376-1418
NUMA node9 CPU(s):	387-429,1419-1461
NUMA node10 CPU(s):	430-472,1462-1504
NUMA node11 CPU(s):	473-515,1505-1547
NUMA node12 CPU(s):	516-558,1548-1590
NUMA node13 CPU(s):	559-601,1591-1633
NUMA node14 CPU(s):	602-644,1634-1676
NUMA node15 CPU(s):	645-687,1677-1719
NUMA node16 CPU(s):	688-730,1720-1762
NUMA node17 CPU(s):	731-773,1763-1805
NUMA node18 CPU(s):	774-816,1806-1848
NUMA node19 CPU(s):	817-859,1849-1891
NUMA node20 CPU(s):	860-902,1892-1934
NUMA node21 CPU(s):	903-945,1935-1977
NUMA node22 CPU(s):	946-988,1978-2020
NUMA node23 CPU(s):	989-1031,2021-2063
Vulnerability Gather data sampling:	Not affected
Vulnerability Indirect target selection:	Not affected
Vulnerability Itlb multihit:	Not affected
Vulnerability Lltf:	Not affected
Vulnerability Mds:	Not affected
Vulnerability Meltdown:	Not affected
Vulnerability Mmio stale data:	Not affected
Vulnerability Reg file data sampling:	Not affected
Vulnerability Retbleed:	Not affected
Vulnerability Spec rstack overflow:	Not affected
Vulnerability Spec store bypass:	Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1:	Mitigation; usercopy/swaps barriers and __user pointer sanitization
Vulnerability Spectre v2:	Mitigation; Enhanced / Automatic IBRS; IBPB conditional; 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

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Platform Notes (Continued)

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	48.4M	12	Data	1	64	1	64
L1i	64K	64.5M	16	Instruction	1	64	1	64
L2	2M	2G	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: 0-42,1032-1074
node 0 size: 256719 MB
node 0 free: 255722 MB
node 1 cpus: 43-85,1075-1117
node 1 size: 250007 MB
node 1 free: 249503 MB
node 2 cpus: 86-128,1118-1160
node 2 size: 258025 MB
node 2 free: 257464 MB
node 3 cpus: 129-171,1161-1203
node 3 size: 250023 MB
node 3 free: 249462 MB
node 4 cpus: 172-214,1204-1246
node 4 size: 258025 MB
node 4 free: 257534 MB
node 5 cpus: 215-257,1247-1289
node 5 size: 250023 MB
node 5 free: 249525 MB
node 6 cpus: 258-300,1290-1332
node 6 size: 258025 MB
node 6 free: 257148 MB
node 7 cpus: 301-343,1333-1375
node 7 size: 250023 MB
node 7 free: 249555 MB
node 8 cpus: 344-386,1376-1418
node 8 size: 258025 MB
node 8 free: 257725 MB
node 9 cpus: 387-429,1419-1461
node 9 size: 249984 MB
node 9 free: 249707 MB
node 10 cpus: 430-472,1462-1504
node 10 size: 258025 MB
node 10 free: 257731 MB
node 11 cpus: 473-515,1505-1547
node 11 size: 250023 MB
node 11 free: 249737 MB
node 12 cpus: 516-558,1548-1590
node 12 size: 258025 MB
node 12 free: 257735 MB
node 13 cpus: 559-601,1591-1633
node 13 size: 250023 MB
node 13 free: 249735 MB
node 14 cpus: 602-644,1634-1676
node 14 size: 258025 MB
node 14 free: 257737 MB
node 15 cpus: 645-687,1677-1719
node 15 size: 250023 MB
node 15 free: 249743 MB

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Platform Notes (Continued)

```

node 16 cpus: 688-730,1720-1762
node 16 size: 258025 MB
node 16 free: 257558 MB
node 17 cpus: 731-773,1763-1805
node 17 size: 250023 MB
node 17 free: 249678 MB
node 18 cpus: 774-816,1806-1848
node 18 size: 258025 MB
node 18 free: 257709 MB
node 19 cpus: 817-859,1849-1891
node 19 size: 250023 MB
node 19 free: 249206 MB
node 20 cpus: 860-902,1892-1934
node 20 size: 258025 MB
node 20 free: 257680 MB
node 21 cpus: 903-945,1935-1977
node 21 size: 250023 MB
node 21 free: 249646 MB
node 22 cpus: 946-988,1978-2020
node 22 size: 258025 MB
node 22 free: 257610 MB
node 23 cpus: 989-1031,2021-2063
node 23 size: 248944 MB
node 23 free: 248492 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
0:  10 12 16 16 16 16 18 18 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
2:  16 16 10 12 18 18 16 16 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
4:  16 16 18 18 10 12 16 16 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
6:  18 18 16 16 16 16 10 12 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
8:  40 40 40 40 40 40 40 40 10 12 16 16 16 16 18 18 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
10: 40 40 40 40 40 40 40 40 16 16 10 12 18 18 16 16 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
12: 40 40 40 40 40 40 40 40 16 16 18 18 10 12 16 16 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
14: 40 40 40 40 40 40 40 40 18 18 16 16 16 16 10 12 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
16: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 10 12 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 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
19: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 12 10 18 18 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
21: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 16 16 18 18 12 10 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
23: 40 40 40 40 40 40 40 40 40 40 40 40 40 40 40 18 18 16 16 16 16 12 10

```

```

-----
9. /proc/meminfo
MemTotal: 6240399716 kB

```

```

-----
10. who -r
run-level 3 Mar 2 03:31
-----

```

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SPECrate®2017_int_base = 9070

SPECrate®2017_int_peak = 9400

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

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

Platform Notes (Continued)

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 systemd-fsck-root systemd-remount-fs
enabled-runtime	accounts-daemon amavis apache2 apache2@ autofs autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl ca-certificates certmonger chrony-wait clamd clamonacc console-getty cups cups-browsed cxl-monitor debug-shell ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once haveged ipmi 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-sysext systemd-time-wait-sync systemd-timesyncd tuned udisks2 update-system-flatpaks upower vncserver@ winbind wsdd ypbind
disabled	accounts-daemon amavis apache2 apache2@ autofs autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl ca-certificates certmonger chrony-wait clamd clamonacc console-getty cups cups-browsed cxl-monitor debug-shell ebttables exchange-bmc-os-info firewalld fsidd gpm grub2-once haveged ipmi 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-sysext systemd-time-wait-sync systemd-timesyncd tuned udisks2 update-system-flatpaks upower vncserver@ winbind wsdd ypbind
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 817:
  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
```

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Platform Notes (Continued)

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+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
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 108G 1.4T 8% /

21. /sys/devices/virtual/dmi/id
Vendor: HPE
Product: Compute Scale-up Server 3250
Product Family: 1590PID03030202

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Platform Notes (Continued)

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 | 502.gcc_r(peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on IA-32, Version 2024.2.1 Build 20240711
Copyright (C) 1985-2024 Intel Corporation. All rights reserved.

C | 500.perlbench_r(base, peak) 502.gcc_r(base) 505.mcf_r(base, peak) 525.x264_r(base, peak)
| 557.xz_r(base, peak)

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

C | 502.gcc_r(peak)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on IA-32, Version 2024.2.1 Build 20240711
Copyright (C) 1985-2024 Intel Corporation. All rights reserved.

C | 500.perlbench_r(base, peak) 502.gcc_r(base) 505.mcf_r(base, peak) 525.x264_r(base, peak)
| 557.xz_r(base, peak)

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

C++ | 520.omnetpp_r(base, peak) 523.xalancbnk_r(base, peak) 531.deepsjeng_r(base, peak)
| 541.leela_r(base, peak)

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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

Compiler Version Notes (Continued)

=====
Fortran | 548.exchange2_r(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

500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64
502.gcc_r: -DSPEC_LP64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -DSPEC_LP64 -DSPEC_LINUX
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-w -std=c11 -m64 -Wl,-z,muldefs -xgraniterapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-L/home/specdev/intel-compilers/compiler/2025.2/lib -lqkmallo

C++ benchmarks:

-w -std=c++14 -m64 -Wl,-z,muldefs -xgraniterapids -O3 -ffast-math
-flto -mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-fdelayed-template-parsing

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Base Optimization Flags (Continued)

C++ benchmarks (continued):

`-L/home/specdev/intel-compilers/compiler/2025.2/lib -lqkmalloc`

Fortran benchmarks:

`-w -m64 -Wl,-z,muldefs -xgraniterapids -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -gopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-L/home/specdev/intel-compilers/compiler/2025.2/lib -lqkmalloc`

Peak Compiler Invocation

C benchmarks (except as noted below):

`icx`

`502.gcc_r: icx`

C++ benchmarks:

`icpx`

Fortran benchmarks:

`ifx`

Peak Portability Flags

`500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64`

`502.gcc_r: -D_FILE_OFFSET_BITS=64`

`505.mcf_r: -DSPEC_LP64`

`520.omnetpp_r: -DSPEC_LP64`

`523.xalancbmk_r: -DSPEC_LP64 -DSPEC_LINUX`

`525.x264_r: -DSPEC_LP64`

`531.deepsjeng_r: -DSPEC_LP64`

`541.leela_r: -DSPEC_LP64`

`548.exchange2_r: -DSPEC_LP64`

`557.xz_r: -DSPEC_LP64`

Peak Optimization Flags

C benchmarks:

(Continued on next page)



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Peak Optimization Flags (Continued)

```
500.perlbench_r: -w -std=c11 -m64 -Wl,-z,muldefs
-fprofile-generate(pass 1)
-fprofile-use=default.profddata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-fno-strict-overflow -fno-strict-aliasing
-L/home/specdev/intel-compilers/compiler/2025.2/lib
-lqkmalloc
```

```
502.gcc_r: -m32 -L/home/specdev/intel-compilers/compiler/2024.2/lib32
-std=gnu89 -Wl,-z,muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profddata(pass 2) -xCORE-AVX2(pass 1)
-flto -Ofast -xCORE-AVX512 -ffast-math -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/jemalloc32-5.0.1/lib -ljemalloc
```

505.mcf_r: basepeak = yes

```
525.x264_r: -w -std=c11 -m64 -Wl,-z,muldefs -xgraniterapids -Ofast
-ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -fno-alias
-L/home/specdev/intel-compilers/compiler/2025.2/lib
-lqkmalloc
```

557.xz_r: basepeak = yes

C++ benchmarks:

520.omnetpp_r: basepeak = yes

523.xalancbmk_r: basepeak = yes

531.deepsjeng_r: basepeak = yes

541.leela_r: basepeak = yes

Fortran benchmarks:

548.exchange2_r: basepeak = yes

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

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

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



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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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