



SPEC CPU®2017 Integer Rate Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

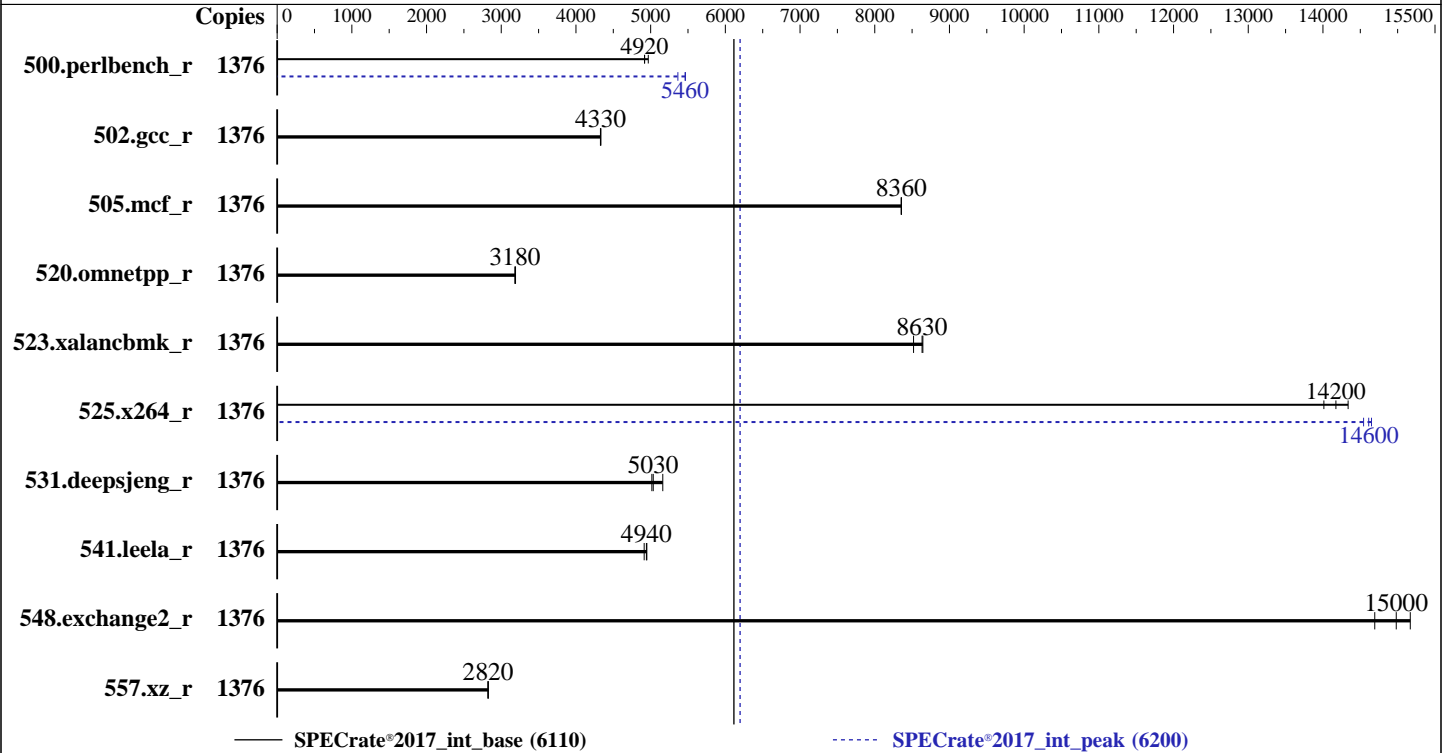
HPE Compute Scale-up Server 3250
(2.00 GHz, Intel Xeon 6788P)

SPECrate®2017_int_base = 6110

SPECrate®2017_int_peak = 6200

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

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



Hardware

CPU Name: Intel Xeon 6788P
Max MHz: 3800
Nominal: 2000
Enabled: 688 cores, 8 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: 4 TB (64 x 64 GB 2Rx4 PC5-6400B-R)
Storage: 1 x 1.5 TB NVMe SSD
Other: CPU Cooling: Air

Software

OS: SUSE Linux Enterprise Server 15 SP7
Kernel 6.4.0-150700.53.31-default
Compiler: C/C++: Version 2025.2 of Intel oneAPI DPC++/C++ Compiler for Linux;
Fortran: Version 2025.2 of Intel Fortran Compiler for Linux;
Parallel: No
Firmware: HPE Firmware Bundle Version 1.0.306 01/10/2026 released Jan-2026
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: 64-bit
Other: None
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	1376	441	4970	445	4920	445	4920	1376	401	5470	408	5360	401	5460
502.gcc_r	1376	450	4330	450	4330	450	4330	1376	450	4330	450	4330	450	4330
505.mcf_r	1376	266	8350	266	8360	266	8360	1376	266	8350	266	8360	266	8360
520.omnetpp_r	1376	567	3180	566	3190	567	3180	1376	567	3180	566	3190	567	3180
523.xalancbmk_r	1376	168	8630	171	8520	168	8640	1376	168	8630	171	8520	168	8640
525.x264_r	1376	172	14000	168	14300	170	14200	1376	164	14600	166	14500	165	14600
531.deepsjeng_r	1376	313	5030	305	5160	314	5020	1376	313	5030	305	5160	314	5020
541.leela_r	1376	461	4940	460	4950	464	4910	1376	461	4940	460	4950	464	4910
548.exchange2_r	1376	241	15000	238	15200	245	14700	1376	241	15000	238	15200	245	14700
557.xz_r	1376	526	2830	526	2820	526	2820	1376	526	2830	526	2820	526	2820

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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"

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/home/cpu2017_new/lib/intel64:/home/cpu2017_new/lib/ia32:/home/cpu2017_new/je5.0.1-32"
MALLOC_CONF = "retain:true"

General Notes

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

Platform Notes

Workload Profile set to Custom
Energy/Performance Bias set to Maximum Performance
Energy Efficient Turbo set to Disabled

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Platform Notes (Continued)

Advanced Memory Protection set to Advanced ECC Support
 SR-IOV set to Disabled
 Intel Virtualization Technology (Intel VT, VT-x) set to Disabled
 Dynamic Prefetch Throttling set to Conservative
 DCU Stream Prefetcher set to Disabled
 Last Level Cache (LLC) Dead Line Allocation set to Disabled
 Enhanced Processor Performance Profile set to Aggressive
 Memory Patrol Scrubbing set to Disabled
 Page Policy set to Open Adaptive

Sysinfo program /home/cpu2017_new/bin/sysinfo
 Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
 running on gnh-159 Wed Feb 18 22:38:17 2026

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

Table of contents

1. uname -a
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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-159 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
 22:38:18 up 6:48, 1 user, load average: 0.09, 0.20, 1.00

USER	TTY	FROM	LOGIN@	IDLE	JCPU	PCPU	WHAT
test	ttyS0	-	15:54	10.00s	0.45s	0.06s	login -- test
test	pts/0	-	15:54	10.00s	1.86s	0.35s	sudo su

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) 16247671
   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) 16247671
   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 --define numcopies=1376 -c
     ic2025.2-linux64-graniterapids-rate-20250605.cfg --define smt-on --define cores=688 --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=1376 --configfile
     ic2025.2-linux64-graniterapids-rate-20250605.cfg --define smt-on --define cores=688 --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

```

```

-----
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
   siblings       : 172
   8 physical ids (chips)
   1376 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

```

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Platform Notes (Continued)

```
physical id 6: core ids 0-42,64-106
physical id 7: 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
```

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):                1376
On-line CPU(s) list:  0-1375
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):             8
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
pdpelgb rdtscp lm constant_tsc arch_perfmon pebs bts rep_good nopl
xtopology nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64
monitor ds_cpl smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca
sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx
f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3
cat_l2 cdp_l3 intel_ppin cdp_l2 ssbd mba ibrs ibpb stibp
ibrs_enhanced fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms
invpcid rtm cqm rdt_a avx512f avx512dq rdseed adx smap avx512ifma
clflushopt clwb intel_pt avx512cd sha_ni avx512bw avx512vl
xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
cqm_mbm_local split_lock_detect user_shstk avx_vnni avx512_bf16
wbnoinvd dtherm ida arat pln pts hwp hwp_act_window hwp_epp
hwp_pkg_req avx512vbmi umip pku ospke waitpkg avx512_vbmi2 gfni
vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq
la57 rdpid bus_lock_detect cldemote movdiri movdir64b enqcmd fsrm
md_clear serialize tsxldtrk pconfig arch_lbr ibt amx_bf16
avx512_fp16 amx_tile amx_int8 flush_lld arch_capabilities
ibpb_exit_to_user
L1d cache:            32.3 MiB (688 instances)
L1i cache:            43 MiB (688 instances)
L2 cache:             1.3 GiB (688 instances)
L3 cache:             2.6 GiB (8 instances)
NUMA node(s):        16
```

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Platform Notes (Continued)

```

NUMA node0 CPU(s):          0-42,688-730
NUMA node1 CPU(s):          43-85,731-773
NUMA node2 CPU(s):          86-128,774-816
NUMA node3 CPU(s):          129-171,817-859
NUMA node4 CPU(s):          172-214,860-902
NUMA node5 CPU(s):          215-257,903-945
NUMA node6 CPU(s):          258-300,946-988
NUMA node7 CPU(s):          301-343,989-1031
NUMA node8 CPU(s):          344-386,1032-1074
NUMA node9 CPU(s):          387-429,1075-1117
NUMA node10 CPU(s):         430-472,1118-1160
NUMA node11 CPU(s):         473-515,1161-1203
NUMA node12 CPU(s):         516-558,1204-1246
NUMA node13 CPU(s):         559-601,1247-1289
NUMA node14 CPU(s):         602-644,1290-1332
NUMA node15 CPU(s):         645-687,1333-1375
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/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

```

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	32.3M	12	Data	1	64	1	64
L1i	64K	43M	16	Instruction	1	64	1	64
L2	2M	1.3G	16	Unified	2	2048	1	64
L3	336M	2.6G	16	Unified	3	344064	1	64

8. numactl --hardware

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

```

available: 16 nodes (0-15)
node 0 cpus: 0-42,688-730
node 0 size: 256724 MB
node 0 free: 242269 MB
node 1 cpus: 43-85,731-773
node 1 size: 249968 MB
node 1 free: 242689 MB
node 2 cpus: 86-128,774-816
node 2 size: 258025 MB
node 2 free: 257251 MB
node 3 cpus: 129-171,817-859
node 3 size: 250023 MB
node 3 free: 244097 MB
node 4 cpus: 172-214,860-902

```

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Platform Notes (Continued)

```

node 4 size: 258025 MB
node 4 free: 257141 MB
node 5 cpus: 215-257,903-945
node 5 size: 250023 MB
node 5 free: 248928 MB
node 6 cpus: 258-300,946-988
node 6 size: 258025 MB
node 6 free: 256415 MB
node 7 cpus: 301-343,989-1031
node 7 size: 250023 MB
node 7 free: 240271 MB
node 8 cpus: 344-386,1032-1074
node 8 size: 258025 MB
node 8 free: 257503 MB
node 9 cpus: 387-429,1075-1117
node 9 size: 250023 MB
node 9 free: 249491 MB
node 10 cpus: 430-472,1118-1160
node 10 size: 258025 MB
node 10 free: 257456 MB
node 11 cpus: 473-515,1161-1203
node 11 size: 250023 MB
node 11 free: 249521 MB
node 12 cpus: 516-558,1204-1246
node 12 size: 258025 MB
node 12 free: 257550 MB
node 13 cpus: 559-601,1247-1289
node 13 size: 250023 MB
node 13 free: 249492 MB
node 14 cpus: 602-644,1290-1332
node 14 size: 258025 MB
node 14 free: 257449 MB
node 15 cpus: 645-687,1333-1375
node 15 size: 248947 MB
node 15 free: 248485 MB
node distances:
node  0  1  2  3  4  5  6  7  8  9 10 11 12 13 14 15
0:  10 12 16 16 16 16 18 18 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
2:  16 16 10 12 18 18 16 16 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
4:  16 16 18 18 10 12 16 16 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
6:  18 18 16 16 16 16 10 12 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
8:  40 40 40 40 40 40 40 40 10 12 16 16 16 16 18 18
9:  40 40 40 40 40 40 40 40 12 10 16 16 16 16 18 18
10: 40 40 40 40 40 40 40 40 16 16 10 12 18 18 16 16
11: 40 40 40 40 40 40 40 40 16 16 12 10 18 18 16 16
12: 40 40 40 40 40 40 40 40 16 16 18 18 10 12 16 16
13: 40 40 40 40 40 40 40 40 16 16 18 18 12 10 16 16
14: 40 40 40 40 40 40 40 40 18 18 16 16 16 16 10 12
15: 40 40 40 40 40 40 40 40 18 18 16 16 16 16 12 10

```

```

-----
9. /proc/meminfo
   MemTotal:          4159441668 kB
-----

```

```

10. who -r

```

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Platform Notes (Continued)

run-level 3 Feb 18 15:55

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 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 clamonnacc
console-getty cups cups-browsed cxi-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-sysext systemd-time-wait-sync systemd-timesyncd tuned
udisks2 update-system-flatpaks upower vncserver@ winbind wsdd ypbind
indirect serial-getty@ systemd-userdbd tftpd wickedd

13. Linux kernel boot-time arguments, from /proc/cmdline

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150700.53.31-default
root=UUID=bcaa5a07-b428-4eb8-82e6-8155bbbcd9db
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 704:
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:

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Platform Notes (Continued)

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+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
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme1n1p2 xfs 1.5T 43G 1.5T 3% /

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

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SPEC CPU®2017 Integer Rate Result

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Hewlett Packard Enterprise

(Test Sponsor: HPE)

HPE Compute Scale-up Server 3250

(2.00 GHz, Intel Xeon 6788P)

SPECrate®2017_int_base = 6110

SPECrate®2017_int_peak = 6200

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

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

Platform Notes (Continued)

Vendor: HPE
Product: Compute Scale-up Server 3250
Product Family: 1590PID03030202
Serial: 5UFD3H1634-000

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:
64x Micron MTC40F2046S1RC64BD2 MWFF 64 GB 2 rank 6400

23. BIOS

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

BIOS Vendor: HPE
BIOS Version: Bundle:1.0.306-20260122_103756 SFW:010.000.158.000.2601100246
BIOS Date: 01/10/2026

Compiler Version Notes

C | 500.perlbench_r(base, peak) 502.gcc_r(base, peak) 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.xalancbmk_r(base, peak) 531.deepsjeng_r(base, peak)
| 541.leela_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.

Fortran | 548.exchange2_r(base, peak)

Intel(R) Fortran Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605
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Base Compiler Invocation

C benchmarks:
icx

C++ benchmarks:
icpx

(Continued on next page)



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Software Availability: Feb-2026

Base Compiler Invocation (Continued)

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 -lqkmalloc
```

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
-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 -qopt-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:

icx

(Continued on next page)



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

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

Peak Compiler Invocation (Continued)

C++ benchmarks:

icpx

Fortran benchmarks:

ifx

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

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

502.gcc_r: basepeak = yes

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

(Continued on next page)



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Peak Optimization Flags (Continued)

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>

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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