



# SPEC CPU®2017 Integer Speed Result

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Compal Electronics, Inc.

SPECspeed®2017\_int\_base = 14.1

SR230-2 (2.10 GHz, Intel Xeon 6740P)

SPECspeed®2017\_int\_peak = 14.3

CPU2017 License: 6857

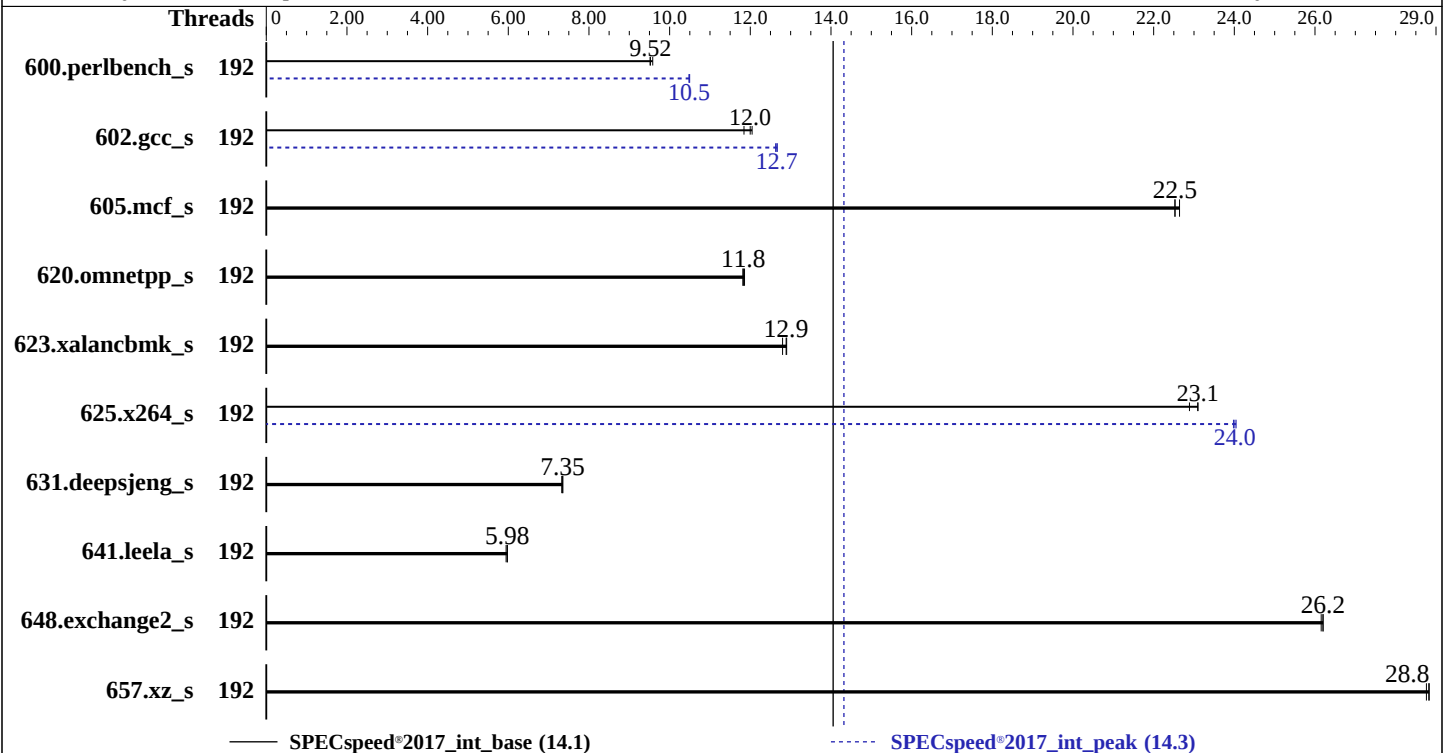
Test Sponsor: Compal Electronics, Inc.

Tested by: Compal Electronics, Inc.

Test Date: Jun-2026

Hardware Availability: May-2025

Software Availability: Jun-2025



## Hardware

CPU Name: Intel Xeon 6740P  
Max MHz: 3800  
Nominal: 2100  
Enabled: 96 cores, 2 chips, 2 threads/core  
Orderable: 1, 2 chip(s)  
Cache L1: 64 KB I + 48 KB D on chip per core  
L2: 2 MB I+D on chip per core  
L3: 288 MB I+D on chip per chip  
Other: None  
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-6400B-R)  
Storage: 1 x 3.84 TB PCIe NVMe SSD  
Other: CPU Cooling: Air

## Software

OS: SUSE Linux Enterprise Server 15 SP6  
6.4.0-150600.21-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: Version 02.45.00 released Jun-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 set to balance power and performance



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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 | 192     | 187        | 9.52        | 185        | 9.58        | <b>186</b>  | <b>9.52</b> | 192     | 169        | 10.5        | 169         | 10.5        | <b>169</b> | <b>10.5</b> |
| 602.gcc_s       | 192     | 331        | 12.0        | 336        | 11.8        | <b>332</b>  | <b>12.0</b> | 192     | 314        | 12.7        | 315         | 12.6        | <b>315</b> | <b>12.7</b> |
| 605.mcf_s       | 192     | 210        | 22.5        | 209        | 22.6        | <b>210</b>  | <b>22.5</b> | 192     | 210        | 22.5        | 209         | 22.6        | <b>210</b> | <b>22.5</b> |
| 620.omnetpp_s   | 192     | 138        | 11.8        | <b>138</b> | <b>11.8</b> | 138         | 11.9        | 192     | 138        | 11.8        | <b>138</b>  | <b>11.8</b> | 138        | 11.9        |
| 623.xalancbmk_s | 192     | 110        | 12.9        | <b>110</b> | <b>12.9</b> | 111         | 12.8        | 192     | 110        | 12.9        | <b>110</b>  | <b>12.9</b> | 111        | 12.8        |
| 625.x264_s      | 192     | 77.1       | 22.9        | 76.4       | 23.1        | <b>76.4</b> | <b>23.1</b> | 192     | 73.6       | 24.0        | <b>73.5</b> | <b>24.0</b> | 73.4       | 24.0        |
| 631.deepsjeng_s | 192     | 196        | 7.32        | 195        | 7.35        | <b>195</b>  | <b>7.35</b> | 192     | 196        | 7.32        | 195         | 7.35        | <b>195</b> | <b>7.35</b> |
| 641.leela_s     | 192     | 287        | 5.95        | <b>285</b> | <b>5.98</b> | 285         | 5.98        | 192     | 287        | 5.95        | <b>285</b>  | <b>5.98</b> | 285        | 5.98        |
| 648.exchange2_s | 192     | <b>112</b> | <b>26.2</b> | 112        | 26.2        | 112         | 26.2        | 192     | <b>112</b> | <b>26.2</b> | 112         | 26.2        | 112        | 26.2        |
| 657.xz_s        | 192     | 214        | 28.8        | <b>214</b> | <b>28.8</b> | 215         | 28.8        | 192     | 214        | 28.8        | <b>214</b>  | <b>28.8</b> | 215        | 28.8        |

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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"

## Environment Variables Notes

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

KMP\_AFFINITY = "granularity=fine,scatter"

LD\_LIBRARY\_PATH = "/home/cpu2025.2/lib/intel64:/home/cpu2025.2/je5.0.1-64"

MALLOC\_CONF = "retain:true"

OMP\_STACKSIZE = "192M"

## General Notes

Binaries compiled on a system with 2x Intel Xeon Platinum 8280M CPU + 384GB RAM

memory using Redhat Enterprise Linux 8.0

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

jemalloc, a general purpose malloc implementation

built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5

sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

## Platform Notes

BIOS settings:

|                           |   |                   |
|---------------------------|---|-------------------|
| Enable LP [Global]        | : | ALL LPs           |
| Adjacent Cache Prefetch   | : | Disable           |
| LLC Prefetch              | : | Enable            |
| Turbo Mode                | : | Enable            |
| Power Performance Tuning  | : | BIOS Controls EPB |
| ENERGY_PERF_BIAS_CFG mode | : | Performance       |

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## Platform Notes (Continued)

Performance Mode : Balanced  
Latency Optimized Mode : Enabled  
(For GNR CPU) NUMA : Enabled  
SNC : Enable  
SR-IOV Support : Disable  
Page Policy : Adaptive  
AVX License Pre-Grant Override: Enable  
AVX ICCP pre-grant level : 256 Heavy

Sysinfo program /home/cpu2025.2/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on localhost Sun Jun 14 09:42:00 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 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent\_hugepage
17. /sys/kernel/mm/transparent\_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

1. uname -a  
Linux localhost 6.4.0-150600.21-default #1 SMP PREEMPT\_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09)  
x86\_64 x86\_64 x86\_64 GNU/Linux

2. w  
09:42:00 up 1 day, 17:58, 2 users, load average: 0.45, 0.11, 0.04  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
root pts/0 10.113.136.1 22Apr24 7.00s 2.47s 0.00s -bash

3. Username  
From environment variable \$USER: root

4. ulimit -a  
core file size (blocks, -c) unlimited

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data seg size (kbytes, -d) unlimited  
scheduling priority (-e) 0  
file size (blocks, -f) unlimited  
pending signals (-i) 4124309  
max locked memory (kbytes, -l) 8192  
max memory size (kbytes, -m) unlimited  
open files (-n) 1024  
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) 4124309  
virtual memory (kbytes, -v) unlimited  
file locks (-x) unlimited

```
-----
5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@pts/0
-bash
-bash
runcpu --nobuild --action validate --define default-platform-flags -c
ic2025.2-lin-graniterapids-speed-20250605.cfg --define cores=96 --tune base,peak -o all --define
intspeedaffinity --define smt-on --define drop_caches intspeed
runcpu --nobuild --action validate --define default-platform-flags --configfile
ic2025.2-lin-graniterapids-speed-20250605.cfg --define cores=96 --tune base,peak --output_format all
--define intspeedaffinity --define smt-on --define drop_caches --nopower --runmode speed --tune base:peak
--size refspeed intspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2017.026/templots/preenv.intspeed.026.0.log --lognum 026.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2025.2
```

```
-----
6. /proc/cpuinfo
model name      : Intel(R) Xeon(R) 6740P
vendor_id       : GenuineIntel
cpu family      : 6
model           : 173
stepping        : 1
microcode       : 0x1000405
bugs             : spectre_v1 spectre_v2 spec_store_bypass swapgs bhi
cpu cores       : 48
siblings        : 96
2 physical ids (chips)
192 processors (hardware threads)
physical id 0:  core ids 0-23,64-87
physical id 1:  core ids 0-23,64-87
physical id 0:  apicids 0-47,128-175
physical id 1:  apicids 256-303,384-431
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 2.39.3:
Architecture:                x86_64
```

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## Platform Notes (Continued)

CPU op-mode(s): 32-bit, 64-bit  
Address sizes: 52 bits physical, 57 bits virtual  
Byte Order: Little Endian  
CPU(s): 192  
On-line CPU(s) list: 0-191  
Vendor ID: GenuineIntel  
BIOS Vendor ID: Intel(R) Corporation  
Model name: Intel(R) Xeon(R) 6740P  
BIOS Model name: Intel(R) Xeon(R) 6740P CPU @ 2.1GHz  
BIOS CPU family: 179  
CPU family: 6  
Model: 173  
Thread(s) per core: 2  
Core(s) per socket: 48  
Socket(s): 2  
Stepping: 1  
CPU(s) scaling MHz: 21%  
CPU max MHz: 3800.0000  
CPU min MHz: 800.0000  
BogoMIPS: 4200.00  
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 art arch\_perfmon pebs bts rep\_good nopl xtopology nonstop\_tsc cpuid aperfmperf tsc\_known\_freq 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 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 vnmi 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  
Virtualization: VT-x  
L1d cache: 4.5 MiB (96 instances)  
L1i cache: 6 MiB (96 instances)  
L2 cache: 192 MiB (96 instances)  
L3 cache: 576 MiB (2 instances)  
NUMA node(s): 4  
NUMA node0 CPU(s): 0-23,96-119  
NUMA node1 CPU(s): 24-47,120-143  
NUMA node2 CPU(s): 48-71,144-167  
NUMA node3 CPU(s): 72-95,168-191  
Vulnerability Gather data sampling: 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

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## Platform Notes (Continued)

Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; RSB filling; PBRSE-eIBRS Not affected; BHI BHI\_DIS\_S  
Vulnerability Srbds: Not affected  
Vulnerability Tsx async abort: Not affected

From lscpu --cache:

| NAME | ONE-SIZE | ALL-SIZE | WAYS | TYPE        | LEVEL | SETS   | PHY-LINE | COHERENCY-SIZE |
|------|----------|----------|------|-------------|-------|--------|----------|----------------|
| L1d  | 48K      | 4.5M     | 12   | Data        | 1     | 64     | 1        | 64             |
| L1i  | 64K      | 6M       | 16   | Instruction | 1     | 64     | 1        | 64             |
| L2   | 2M       | 192M     | 16   | Unified     | 2     | 2048   | 1        | 64             |
| L3   | 288M     | 576M     | 16   | Unified     | 3     | 294912 | 1        | 64             |

8. numactl --hardware

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

available: 4 nodes (0-3)  
node 0 cpus: 0-23,96-119  
node 0 size: 257426 MB  
node 0 free: 255640 MB  
node 1 cpus: 24-47,120-143  
node 1 size: 258035 MB  
node 1 free: 253410 MB  
node 2 cpus: 48-71,144-167  
node 2 size: 258035 MB  
node 2 free: 257395 MB  
node 3 cpus: 72-95,168-191  
node 3 size: 257610 MB  
node 3 free: 252470 MB  
node distances:  
node 0 1 2 3  
0: 10 12 21 21  
1: 12 10 21 21  
2: 21 21 10 12  
3: 21 21 12 10

9. /proc/meminfo

MemTotal: 1055853308 kB

10. who -r

run-level 3 Apr 22 20:00

11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)

| 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 cron display-manager firewalld getty@ ipmi irqbalance issue-generator kbdsettings kdump kdump-early kdump-notify klog lvm2-monitor nsd nvme-fc-boot-connections nvme-autoconnect postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny |
| enabled-runtime | systemd-remount-fs                                                                                                                                                                                                                                                                                                                                                                                  |
| disabled        | accounts-daemon autofs autoyast-initscripts blk-availability bluetooth-mesh boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed debug-shell ebtables                                                                                                                                                                                                                    |

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exchange-bmc-os-info fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmiev  
issue-add-ssh-keys kexec-load lunmask man-db-create multipathd nfs nfs-blkmap nmb  
ostree-remount rpcbind rpmconfigcheck rsyncd rtkit-daemon serial-getty@  
smartd\_generate\_opts smb snmpd snmptrapd speech-dispatcherd svnserv  
systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-sysext  
systemd-time-wait-sync systemd-timesyncd udisks2 update-system-flatpaks upower vncserver@  
indirect systemd-userdbd wickedd

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

```
BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default  
root=UUID=64556400-9eff-48eb-b8a8-0dcaa956400d  
splash=silent  
resume=/dev/disk/by-uuid/a2731b0b-df7f-426a-9660-58c24d12e37e  
mitigations=auto  
quiet  
security=apparmor  
crashkernel=385M,high  
crashkernel=72M,low
```

### 14. cpupower frequency-info

```
analyzing CPU 12:  
current policy: frequency should be within 800 MHz and 3.80 GHz.  
The governor "powersave" may decide which speed to use  
within this range.  
boost state support:  
Supported: yes  
Active: yes
```

### 15. sysctl

```
kernel.numa_balancing          1  
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
```

### 16. /sys/kernel/mm/transparent\_hugepage

```
defrag      always defer defer+madvice [madvice] never  
enabled     [always] madvice never  
hpage_pmd_size 2097152  
shmem_enabled always within_size advise [never] deny force
```

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## Platform Notes (Continued)

17. /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
```

18. OS release

```
From /etc/*-release /etc/*-version
os-release SUSE Linux Enterprise Server 15 SP6
```

19. Disk information

SPEC is set to: /home/cpu2025.2

```
Filesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p3 xfs 1.5T 798G 723G 53% /home
```

20. /sys/devices/virtual/dmi/id

```
Vendor: COMPAL
Product: COMPAL SERVER
Product Family: COMPAL
Serial: 00000000000000
```

21. dmidecode

Additional information from dmidecode 3.4 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:  
16x Samsung M321R8GA0EB2-CCPKC 64 GB 2 rank 6400

22. BIOS

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

```
BIOS Vendor: American Megatrends International, LLC.
BIOS Version: 02.45.00
BIOS Date: 05/06/2026
BIOS Revision: 5.35
```

## 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)
```

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Software Availability: Jun-2025

## Compiler Version Notes (Continued)

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2025.2.0 Build 20250605  
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Fortran | 648.exchange2\_s(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

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 -xgraniterapids -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 -xgraniterapids -O3 -ffast-math

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# SPEC CPU®2017 Integer Speed Result

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Compal Electronics, Inc.

SPECspeed®2017\_int\_base = 14.1

SR230-2 (2.10 GHz, Intel Xeon 6740P)

SPECspeed®2017\_int\_peak = 14.3

CPU2017 License: 6857

Test Sponsor: Compal Electronics, Inc.

Tested by: Compal Electronics, Inc.

Test Date: Jun-2026

Hardware Availability: May-2025

Software Availability: Jun-2025

## Base Optimization Flags (Continued)

C++ benchmarks (continued):

-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 -xgraniterapids -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.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)

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SPECspeed®2017\_int\_peak = 14.3

CPU2017 License: 6857

Test Sponsor: Compal Electronics, Inc.

Tested by: Compal Electronics, Inc.

Test Date: Jun-2026

Hardware Availability: May-2025

Software Availability: Jun-2025

## Peak Optimization Flags (Continued)

602.gcc\_s (continued):

```
-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 -xgraniterapids -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/Compal-Platform-Flags-Linux-Intel\\_V1.1.html](http://www.spec.org/cpu2017/flags/Compal-Platform-Flags-Linux-Intel_V1.1.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/Compal-Platform-Flags-Linux-Intel\\_V1.1.xml](http://www.spec.org/cpu2017/flags/Compal-Platform-Flags-Linux-Intel_V1.1.xml)

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

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