**SPEC® CPU2017 Integer Speed Result**

**Dell Inc.**

PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)

<table>
<thead>
<tr>
<th>Thread</th>
<th>SPECspeed2017_int_base</th>
<th>SPECspeed2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>8.52</td>
<td>8.73</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>8.26</td>
<td>8.38</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>8.26</td>
<td>8.38</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>5.97</td>
<td>6.09</td>
</tr>
<tr>
<td>623.xalancbmk_s</td>
<td>9.47</td>
<td>9.47</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>10.6</td>
<td>10.6</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>5.99</td>
<td>5.99</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>4.35</td>
<td>4.35</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>8.38</td>
<td>8.38</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>21.2</td>
<td>21.5</td>
</tr>
</tbody>
</table>

**Hardware**

- **CPU Name:** Intel Xeon Gold 6130
- **Max MHz.:** 3700
- **Nominal:** 2100
- **Enabled:** 32 cores, 2 chips
- **Orderable:** 1,2 chips
- **Cache L1:** 32 KB I + 32 KB D on chip per core
- **L2:** 1 MB I+D on chip per core
- **L3:** 22 MB I+D on chip per chip
- **Other:** None
- **Memory:** 384 GB (24 x 16 GB 2Rx8 PC4-2666V-R)
- **Storage:** 1 x 960 GB SATA SSD
- **Other:** None

**Software**

- **OS:** SUSE Linux Enterprise Server 12 SP3
  - kernel 4.4.126-94.22-default
- **Compiler:** C/C++: Version 18.0.2.20180210 of Intel C/C++ Compiler for Linux;
  - Fortran: Version 18.0.2.20180210 of Intel Fortran Compiler for Linux
- **Parallel:** Yes
- **Firmware:** Version 1.4.8 released Jun-2018 tested as May-2018
- **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
Dell Inc.

PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)

SPECspeed2017_int_base = 8.73
SPECspeed2017_int_peak = 8.52

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
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<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>600.perlbench_s</td>
<td>32</td>
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<td>6.26</td>
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<td>6.27</td>
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<td>605.mcf_s</td>
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<td>6.08</td>
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<td>623.xalanchmk_s</td>
<td>32</td>
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<td>9.49</td>
<td>150</td>
<td>9.47</td>
<td>150</td>
<td>9.46</td>
<td>32</td>
<td>139</td>
<td>10.2</td>
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<td>139</td>
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<tr>
<td>625.x264_s</td>
<td>32</td>
<td>153</td>
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<td>11.5</td>
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<td>631.deepsjeng_s</td>
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<td>5.10</td>
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<tr>
<td>648.exchange2_s</td>
<td>32</td>
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<td>13.3</td>
<td>223</td>
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<td>32</td>
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<td>343</td>
<td>8.58</td>
</tr>
</tbody>
</table>

SPECspeed2017_int_base = 8.73
SPECspeed2017_int_peak = 8.52

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"

General Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu2017/lib/ia32:/home/cpu2017/lib/intel64:/home/cpu2017/je5.0.1-32:/home/cpu2017/je5.0.1-64"
OMP_STACKSIZE = "192M"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM memory using Redhat Enterprise Linux 7.4
Yes: 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.
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 7.4, and the system compiler gcc 4.8.5
## Dell Inc.

**PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)**

<table>
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</tbody>
</table>

### CPU2017 License:

- 55

### Test Date:

- Jul-2018

### Hardware Availability:

- Jun-2018

### Software Availability:

- Apr-2018

### Platform Notes

**BIOS settings:**
- Sub NUMA Cluster Disabled
- Virtualization Technology Disabled
- System Profile set to Custom
- CPU Performance set to Maximum Performance
- C States set to Autonomous
- C1E Disabled
- Uncore Frequency set to Dynamic
- Energy Efficiency Policy set to Performance
- Memory Patrol Scrub Disabled
- Logical Processor Disabled
- CPU Interconnect Bus Link Power Management Disabled
- PCI ASPM L1 Link Power Management Disabled

**Sysinfo program** /home/cpu2017/bin/sysinfo

**Rev:** r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9

**running on linux-akdf Thu Jul 5 11:13:17 2018**

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

For more information on this section, see

- [https://www.spec.org/cpu2017/Docs/config.html#sysinfo](https://www.spec.org/cpu2017/Docs/config.html#sysinfo)

**From /proc/cpuinfo**

```
model name : Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz
  2 "physical id"s (chips)
  32 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
cpu cores : 16
siblings : 16
physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
```

**From lscpu:**

```
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 32
On-line CPU(s) list: 0-31
Thread(s) per core: 1
Core(s) per socket: 16
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Gold 6130 CPU @ 2.10GHz
Stepping: 4
```

(Continued on next page)
SPEC CPU2017 Integer Speed Result
Copyright 2017-2018 Standard Performance Evaluation Corporation

Dell Inc.
PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)

SPECspeed2017_int_base = 8.73
SPECspeed2017_int_peak = 8.52

CPU2017 License: 55
Test Sponsor: Dell Inc.
Tested by: Dell Inc.

Test Date: Jul-2018
Hardware Availability: Jun-2018
Software Availability: Apr-2018

Platform Notes (Continued)

CPU MHz: 2095.084
BogoMIPS: 4190.16
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 22528K
NUMA node0 CPU(s): 0,2,4,6,8,10,12,14,16,18,20,22,24,26,28,30
NUMA node1 CPU(s): 1,3,5,7,9,11,13,15,17,19,21,23,25,27,29,31
Flags: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
pat pse36 clflush dts acpi mmx mmxex fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtsscp
lm constant_tsc art arch_perfmon pebs bs rep_good nopl xtopology nonstop_tsc
aperfmprefp eagerfpu pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
fma cx16 xtpr pdcm pclid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
xsave avx f16c rdrand lahf_lm abm 3dnowprefetch ida arat epb invpcid_single pln pts
dtherm intel_pt rsb_cxsw spec_ctrl stibp ret polynomial kaiser tpr_shadow vnmi
flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm
cqm mpx avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl
xsavesopt xsavec xgetbv1 cqm_llc cqm_occup_llc pku ospke

/proc/cpuinfo cache data
  cache size : 22528 KB

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a
physical chip.
  available: 2 nodes (0-1)
  node 0 cpus: 0 2 4 6 8 10 12 14 16 18 20 22 24 26 28 30
  node 0 size: 192115 MB
  node 0 free: 191637 MB
  node 1 cpus: 1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31
  node 1 size: 193514 MB
  node 1 free: 192988 MB
  node distances:
    node 0 1
    0: 10 21
    1: 21 10

From /proc/meminfo
  MemTotal: 394884984 kB
  HugePages_Total: 0
  Hugepagesize: 2048 kB

/usr/bin/lsb_release -d
  SUSE Linux Enterprise Server 12 SP3

From /etc/*release* /etc/*version*
  SuSE-release:

(Continued on next page)
SPEC CPU2017 Integer Speed Result

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Test Date: Jul-2018
Hardware Availability: Jun-2018
Software Availability: Apr-2018

Platform Notes (Continued)

SUSE Linux Enterprise Server 12 (x86_64)
VERSION = 12
PATCHLEVEL = 3
# This file is deprecated and will be removed in a future service pack or release.
# Please check /etc/os-release for details about this release.
os-release:
  NAME="SLES"
  VERSION="12-SP3"
  VERSION_ID="12.3"
  PRETTY_NAME="SUSE Linux Enterprise Server 12 SP3"
  ID="sles"
  ANSI_COLOR="0;32"
  CPE_NAME="cpe:/o:suse:sles:12:sp3"

uname -a:
Linux linux-akdf 4.4.126-94.22-default #1 SMP Wed Apr 11 07:45:03 UTC 2018 (9649989)
x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:
CVE-2017-5754 (Meltdown): Mitigation: PTI
CVE-2017-5753 (Spectre variant 1): Mitigation: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: IBRS+IBPB

run-level 3 Jul 5 11:13 last=5

SPEC is set to: /home/cpu2017
  Filesystem  Type  Size  Used Avail Use% Mounted on
  /dev/sda4    xfs   852G   29G  824G   4% /home

Additional information from dmidecode 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.

BIOS Dell Inc. 1.4.8 05/21/2018
Memory:
  24x 00AD00B300AD HMA82GR7AFR8N-VK 16 GB 2 rank 2666

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
  CC  600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base)
       657.xz_s(base)
==============================================================================

(Continued on next page)
Dell Inc.  
PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)  

**SPEC CPU2017 Integer Speed Result**

- **CPU2017 License:** 55  
- **Test Sponsor:** Dell Inc.  
- **Test Date:** Jul-2018  
- **Hardware Availability:** Jun-2018  
- **Tested by:** Dell Inc.  
- **Software Availability:** Apr-2018  

**Compiler Version Notes (Continued)**

```
icc (ICC) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

```
CC 600.perlbench_s(peak) 602.gcc_s(peak) 605.mcf_s(peak) 625.x264_s(peak)  
657.xz_s(peak)
```

```
icc (ICC) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

```
CXXC 620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)  
641.leela_s(base)
```

```
icpc (ICC) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

```
CXXC 620.omnetpp_s(peak) 623.xalancbmk_s(peak) 631.deepsjeng_s(peak)  
641.leela_s(peak)
```

```
icpc (ICC) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

```
FC 648.exchange2_s(base)
```

```
ifort (IFORT) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

```
FC 648.exchange2_s(peak)
```

```
ifort (IFORT) 18.0.2 20180210  
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
```

---

**Base Compiler Invocation**

C benchmarks:  
```  
icc -m64 -std=c11
```
**SPEC CPU2017 Integer Speed Result**

**Dell Inc.**

PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)

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**CPU2017 License:** 55  
**Test Date:** Jul-2018  
**Test Sponsor:** Dell Inc.  
**Hardware Availability:** Jun-2018  
**Tested by:** Dell Inc.  
**Software Availability:** Apr-2018

---

**Base Compiler Invocation (Continued)**

**C++ benchmarks:**

icpc -m64

**Fortran benchmarks:**

ifort -m64

---

**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:**

-W1, -z, muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -gopenmp -DSPEC_OPENMP  
-L/usr/local/je5.0.1-64/lib -ljemalloc

**C++ benchmarks:**

-W1, -z, muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -L/usr/local/je5.0.1-64/lib -ljemalloc

**Fortran benchmarks:**

-W1, -z, muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs  
-L/usr/local/je5.0.1-64/lib -ljemalloc
# SPEC CPU2017 Integer Speed Result

## Dell Inc.

PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)  

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</tbody>
</table>

**CPU2017 License:** 55  
**Test Sponsor:** Dell Inc.  
**Tested by:** Dell Inc.  

### Peak Compiler Invocation

- **C benchmarks:**
  - `icc -m64 -std=c11`

- **C++ benchmarks (except as noted below):**
  - `icpc -m64`

- **623.xalancbmk_s:**
  - `icpc -m32 -L/home/prasadj/specdev/IC18u2_Internal/lin_18_0_20180210/compiler/lib/ia32_lin`

- **Fortran benchmarks:**
  - `ifort -m64`

### Peak 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:**
  - `-D_FILE_OFFSET_BITS=64 -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`

### Peak Optimization Flags

- **C benchmarks:**
  - `600.perlbench_s: -xl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2`
  - `602.gcc_s: -xl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2`
  - `-xCORE-AVX512 -qopt-prefetch -ipo -O3`
  - `-qopt-mem-layout-trans=3 -no-prec-div`
  - `-DSPEC_SUPPRESS_OPENMP -gopenmp -DSPEC_OPENMP`
  - `-fno-strict-overflow -L/usr/local/je5.0.1-64/lib`
  - `-ljemalloc`

- `602.gcc_s: -xl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2`
  - `600.perlbench_s: -xl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2`
  - `-xCORE-AVX512 -qopt-prefetch -ipo -O3`
  - `-qopt-mem-layout-trans=3 -no-prec-div`
  - `-DSPEC_SUPPRESS_OPENMP -gopenmp -DSPEC_OPENMP`
  - `-L/usr/local/je5.0.1-64/lib -ljemalloc`

(Continued on next page)
SPEC CPU2017 Integer Speed Result

Dell Inc.
PowerEdge R740 (Intel Xeon Gold 6130, 2.10 GHz)

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CPU2017 License: 55
Test Date: Jul-2018
Test Sponsor: Dell Inc.
Hardware Availability: Jun-2018
Tested by: Dell Inc.
Software Availability: Apr-2018

Peak Optimization Flags (Continued)

605.mcf_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX512 -O3 -no-prec-div -qopt-prefetch
-qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -L/usr/local/je5.0.1-64/lib -ljemalloc

625.x264_s: Same as 602.gcc_s

657.xz_s: Same as 602.gcc_s

C++ benchmarks:

620.omnetpp_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX512 -O3 -no-prec-div -qopt-prefetch
-qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -L/usr/local/je5.0.1-64/lib -ljemalloc

623.xalancbmk_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX512 -O3 -no-prec-div -qopt-prefetch
-qopt-mem-layout-trans=3 -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -L/usr/local/je5.0.1-32/lib -ljemalloc

631.deepsjeng_s: Same as 620.omnetpp_s

641.leela_s: Same as 620.omnetpp_s

Fortran benchmarks:

-Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)
-DSPEC_SUPPRESS_OPENMP -DSPEC_OPENMP -ipo -xCORE-AVX512 -O3
-no-prec-div -qopt-prefetch -qopt-mem-layout-trans=3 -qopenmp
-nostandard-realloc-lhs -L/usr/local/je5.0.1-64/lib -ljemalloc

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

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/Intel-ic18.0-official-linux64.2017-12-21.xml

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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU2017 v1.0.5 on 2018-07-05 12:13:17-0400.