### SPEC® CPU2017 Integer Speed Result

**Dell Inc.**

PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)

<table>
<thead>
<tr>
<th>Test Sponsor: Dell Inc.</th>
<th>Hardware Availability: Dec-2018</th>
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<td>Software Availability: Feb-2018</td>
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**CPU2017 License:** 55  
**Test Date:** Nov-2018  
**Hardware Availability:** Dec-2018  
**Tested by:** Dell Inc.  
**Software Availability:** Feb-2018

<table>
<thead>
<tr>
<th>Test</th>
<th>Threads</th>
<th>SPECspeed2017_int_base</th>
<th>SPECspeed2017_int_peak</th>
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</thead>
<tbody>
<tr>
<td>perlbench_s</td>
<td>28</td>
<td>5.37</td>
<td>6.38</td>
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<tr>
<td>gcc_s</td>
<td>28</td>
<td>8.26</td>
<td>9.80</td>
</tr>
<tr>
<td>mcf_s</td>
<td>28</td>
<td>5.13</td>
<td>9.97</td>
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<tr>
<td>omnetpp_s</td>
<td>28</td>
<td>8.25</td>
<td>9.53</td>
</tr>
<tr>
<td>xalanchmk_s</td>
<td>28</td>
<td>5.40</td>
<td>8.84</td>
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<tr>
<td>x264_s</td>
<td>28</td>
<td>4.57</td>
<td>8.25</td>
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<tr>
<td>deepsjeng_s</td>
<td>28</td>
<td>3.73</td>
<td>9.53</td>
</tr>
<tr>
<td>leela_s</td>
<td>28</td>
<td>3.73</td>
<td>11.6</td>
</tr>
<tr>
<td>exchange2_s</td>
<td>28</td>
<td>5.37</td>
<td>18.9</td>
</tr>
<tr>
<td>xz_s</td>
<td>28</td>
<td>9.80</td>
<td>18.5</td>
</tr>
</tbody>
</table>

**Software**

- **OS:** SUSE Linux Enterprise Server 12 SP3  
- **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 1.0.3 released Oct-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

**Hardware**

- **CPU Name:** Intel Xeon Gold 5120  
- **Max MHz.:** 3200  
- **Nominal:** 2200  
- **Enabled:** 28 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:** 19.25 MB I+D on chip per core  
- **Other:** None  
- **Memory:** 192 GB (12 x 16 GB 2Rx8 PC4-2666V-R, running at 2400)  
- **Storage:** 1 x 250 GB M.2 SATA SSD  
- **Other:** None
### SPEC CPU2017 Integer Speed Result

**Dell Inc.**  
PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)  

**SPECspeed2017_int_base = 7.60**  
**SPECspeed2017_int_peak = 7.85**

**CPU2017 License:** 55  
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**Software Availability:** Feb-2018

---

### Results Table

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<tr>
<th>Benchmark</th>
<th>Threads</th>
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<tr>
<td>600.perlbbenchmark_s</td>
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<td>312</td>
<td>5.23</td>
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<td>8.27</td>
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<td>18.4</td>
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<td>18.5</td>
<td>332</td>
<td>18.6</td>
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<td>18.9</td>
<td>324</td>
<td>19.1</td>
<td>327</td>
<td>18.9</td>
</tr>
</tbody>
</table>

**SPECspeed2017_int_base = 7.60**  
**SPECspeed2017_int_peak = 7.85**

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 R740xd2 (Intel Xeon Gold 5120, 2.20GHz)

SPECspeed2017_int_base = 7.60
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CPU2017 License: 55
Test Sponsor: Dell Inc.
Tested by: Dell Inc.

Test Date: Nov-2018
Hardware Availability: Dec-2018
Software Availability: Feb-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-m8ku Sun Nov 18 11:00:02 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

From /proc/cpuinfo
model name : Intel(R) Xeon(R) Gold 5120 CPU @ 2.20GHz
  2 "physical id"s (chips)
  28 "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 : 14
siblings : 14
physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14
physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14

From lscpu:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 28
On-line CPU(s) list: 0-27
Thread(s) per core: 1
Core(s) per socket: 14
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Gold 5120 CPU @ 2.20GHz
Stepping: 4

(Continued on next page)
Dell Inc.  
PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)  

**SPEC CPU2017 Integer Speed Result**

**SPECspeed2017_int_base = 7.60**  
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**Platform Notes (Continued)**

```
CPU MHz:               2194.872
BogoMIPS:              4389.74
Virtualization:        VT-x
L1d cache:             32K
L1i cache:             32K
L2 cache:              1024K
L3 cache:              19712K
NUMA node0 CPU(s):     0,2,4,6,8,10,12,14,16,18,20,22,24,26
NUMA node1 CPU(s):     1,3,5,7,9,11,13,15,17,19,21,23,25,27
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
                       aperfmperf eagerfpu pni pcmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
                       fma cx16 xtpmr pdcm pcid 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_ctxtsw spec_ctrl retpoline kaiser tpr_shadow vnmi flexpriority
                       ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqm mxp
                       avx512f avx512dq rdseed adx smap clflushopt clwb avx512cd avx512bw avx512vl xsaveopt
                       xsavevc xgetbv1 cqm_llc cqm_occup_llc pku ospke

/proc/cpuinfo cache data  
  cache size : 19712 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  
  node 0 size: 95285 MB  
  node 0 free: 94891 MB  
  node 1 cpus: 1 3 5 7 9 11 13 15 17 19 21 23 25 27  
  node 1 size: 96749 MB  
  node 1 free: 96365 MB  
  node distances:  
    node 0 1  
    0: 10 21  
    1: 21 10

From /proc/meminfo  
  MemTotal:       196642996 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)
Dell Inc.  
PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)  

SPEC CPU2017 Integer Speed Result  

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Test Sponsor: Dell Inc.  
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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-m8ku 4.4.114-94.11-default #1 SMP Thu Feb 1 19:28:26 UTC 2018 (4309ff9)  
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: Barriers  
CVE-2017-5715 (Spectre variant 2): Mitigation: IBRS+IBPB

run-level 3 Nov 18 10:51 last=5

SPEC is set to: /home/cpu2017  
Filesystem Type Size Used Avail Use% Mounted on  
/dev/sdz4 xfs 182G 4.0G 178G 3% /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. 1.0.3 10/25/2018  
Memory:  
12x 002C04B3002C 18ASF2G72PDZ-2G6E1 16 GB 2 rank 2666, configured at 2400  
4x Not Specified Not Specified

(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 R740xd2 (Intel Xeon Gold 5120, 2.20GHz)

SPEC CPU2017 Integer Speed Result

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CPU2017 License: 55
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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
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Dell Inc.

PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)

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Base Compiler Invocation

C benchmarks:
icc -m64 -std=c11

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-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

C++ benchmarks:
-W1,-z,muldefs -xCORE-AVX2 -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-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs
-L/usr/local/je5.0.1-64/lib -ljemalloc
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PowerEdge R740xd2 (Intel Xeon Gold 5120, 2.20GHz)

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### Peak Compiler Invocation

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

**C++ benchmarks:**
```bash
icpc -m64
```

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

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

(Continued on next page)

### Peak Portability Flags

**C benchmarks:**
- `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:**
```bash
600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2
-xCORE-AVX2 -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
```

```bash
602.gcc_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2
-xCORE-AVX2 -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 R740xd2 (Intel Xeon Gold 5120, 2.20GHz)  

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Peak Optimization Flags (Continued)

605.mcf_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX2 -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: basepeak = yes

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-AVX2 -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  

631.deepsjeng_s: basepeak = yes

641.leela_s: Same as 620.omnetpp_s

Fortran benchmarks:

648.exchange2_s: basepeak = yes

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.

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