# SPEC CPU®2017 Integer Speed Result

## Dell Inc.

**PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)**

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base</th>
<th>10.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_int_peak</td>
<td>10.6</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 55  
**Test Sponsor:** Dell Inc.  
**Tested by:** Dell Inc.  
**Test Date:** Sep-2019  
**Software Availability:** May-2019  
**Hardware Availability:** Sep-2019

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed®2017_int_base (10.4)</th>
<th>SPECspeed®2017_int_peak (10.6)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>2.00</td>
<td>2.00</td>
</tr>
<tr>
<td>2</td>
<td>4.00</td>
<td>4.00</td>
</tr>
<tr>
<td>4</td>
<td>6.00</td>
<td>6.00</td>
</tr>
<tr>
<td>8</td>
<td>8.00</td>
<td>8.00</td>
</tr>
<tr>
<td>10</td>
<td>10.0</td>
<td>10.0</td>
</tr>
<tr>
<td>12</td>
<td>12.0</td>
<td>12.0</td>
</tr>
<tr>
<td>14</td>
<td>14.0</td>
<td>14.0</td>
</tr>
<tr>
<td>16</td>
<td>16.0</td>
<td>16.0</td>
</tr>
<tr>
<td>18</td>
<td>18.0</td>
<td>18.0</td>
</tr>
<tr>
<td>20</td>
<td>20.0</td>
<td>20.0</td>
</tr>
<tr>
<td>22</td>
<td>22.0</td>
<td>22.0</td>
</tr>
<tr>
<td>24</td>
<td>24.0</td>
<td>24.0</td>
</tr>
<tr>
<td>26</td>
<td>26.0</td>
<td>26.0</td>
</tr>
</tbody>
</table>

### Hardware

- **CPU Name:** Intel Xeon Platinum 8260  
- **Max MHz:** 3900  
- **Nominal:** 2400  
- **Enabled:** 96 cores, 4 chips  
- **Orderable:** 2,4 chips  
- **Cache L1:** 32 KB I + 32 KB D on chip per core  
- **L2:** 1 MB I+D on chip per core  
- **L3:** 35.75 MB I+D on chip per chip  
- **Other:** None  
- **Memory:** 768 GB (48 x 16 GB 2Rx8 PC4-2933Y-R)  
- **Storage:** 1 x 240 GB SATA M.2 SSD  
- **Other:** None

### Software

- **OS:** SUSE Linux Enterprise Server 12 SP4  
  kernel 4.12.14-94.41-default  
- **Compiler:** C/C++: Version 19.0.4.227 of Intel C/C++ Compiler Build 20190416 for Linux; Fortran: Version 19.0.4.227 of Intel Fortran Compiler Build 20190416 for Linux  
- **Parallel:** Yes  
- **Firmware:** Version 2.4.3 released Aug-2019  
- **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:** --
Dell Inc.
PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

Dell Inc.
PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

SPECspeed®2017_int_base = 10.4
SPECspeed®2017_int_peak = 10.6

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>
<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>96</td>
<td>260</td>
<td>6.83</td>
<td>260</td>
<td>6.83</td>
<td>260</td>
<td>6.83</td>
<td>96</td>
<td>224</td>
<td>7.92</td>
<td>222</td>
</tr>
<tr>
<td>602.gcc_s</td>
<td>96</td>
<td>399</td>
<td>9.99</td>
<td>402</td>
<td>9.90</td>
<td>404</td>
<td>9.84</td>
<td>96</td>
<td>391</td>
<td>10.2</td>
<td>390</td>
</tr>
<tr>
<td>605.mcf_s</td>
<td>96</td>
<td>374</td>
<td>12.6</td>
<td>376</td>
<td>12.5</td>
<td>375</td>
<td>12.6</td>
<td>96</td>
<td>375</td>
<td>12.6</td>
<td>373</td>
</tr>
<tr>
<td>620.omnetpp_s</td>
<td>96</td>
<td>185</td>
<td>8.84</td>
<td>176</td>
<td>9.24</td>
<td>180</td>
<td>9.05</td>
<td>96</td>
<td>176</td>
<td>9.26</td>
<td>173</td>
</tr>
<tr>
<td>623.xalanchmk_s</td>
<td>96</td>
<td>116</td>
<td>12.2</td>
<td>115</td>
<td>12.3</td>
<td>114</td>
<td>12.4</td>
<td>96</td>
<td>115</td>
<td>12.4</td>
<td>114</td>
</tr>
<tr>
<td>625.x264_s</td>
<td>96</td>
<td>123</td>
<td>14.3</td>
<td>123</td>
<td>14.3</td>
<td>123</td>
<td>14.3</td>
<td>96</td>
<td>123</td>
<td>14.3</td>
<td>123</td>
</tr>
<tr>
<td>631.deepsjeng_s</td>
<td>96</td>
<td>263</td>
<td>5.44</td>
<td>263</td>
<td>5.44</td>
<td>263</td>
<td>5.45</td>
<td>96</td>
<td>263</td>
<td>5.45</td>
<td>264</td>
</tr>
<tr>
<td>641.leela_s</td>
<td>96</td>
<td>358</td>
<td>4.77</td>
<td>358</td>
<td>4.77</td>
<td>358</td>
<td>4.77</td>
<td>96</td>
<td>358</td>
<td>4.77</td>
<td>358</td>
</tr>
<tr>
<td>648.exchange2_s</td>
<td>96</td>
<td>176</td>
<td>16.7</td>
<td>177</td>
<td>16.6</td>
<td>177</td>
<td>16.6</td>
<td>96</td>
<td>178</td>
<td>16.5</td>
<td>176</td>
</tr>
<tr>
<td>657.xz_s</td>
<td>96</td>
<td>243</td>
<td>25.4</td>
<td>243</td>
<td>25.4</td>
<td>243</td>
<td>25.4</td>
<td>96</td>
<td>242</td>
<td>25.5</td>
<td>242</td>
</tr>
</tbody>
</table>

SPECspeed®2017_int_base = 10.4
SPECspeed®2017_int_peak = 10.6

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/intel64:/home/cpu2017/je5.0.1-64"
OMP_STACKSIZE = "192M"

Binaries compiled on a system with 1x Intel Core i9-7900X CPU + 32GB RAM memory using Redhat Enterprise Linux 7.5
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.
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
SPEC CPU®2017 Integer Speed Result

Dell Inc.

PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base</th>
<th>10.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_int_peak</td>
<td>10.6</td>
</tr>
</tbody>
</table>

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

Test Date: Sep-2019
Hardware Availability: Sep-2019
Software Availability: May-2019

Platform Notes

BIOS settings:
ADDDC setting 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-ojzl Mon Sep  9 09:31:18 2019

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) Platinum 8260 CPU @ 2.40GHz
  4 "physical id"s (chips)
  96 "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 : 24
siblings : 24
physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
physical 2: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29
physical 3: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 16 17 18 19 20 21 25 26 27 28 29

From lscpu:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 96
On-line CPU(s) list: 0-95
Thread(s) per core: 1
Core(s) per socket: 24
Socket(s): 4
NUMA node(s): 4
Vendor ID: GenuineIntel
CPU family: 6
Model: 85

(Continued on next page)
**SPEC CPU®2017 Integer Speed Result**

Dell Inc.

**PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)**

<table>
<thead>
<tr>
<th>CPU2017 License:</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor:</td>
<td>Dell Inc.</td>
</tr>
<tr>
<td>Tested by:</td>
<td>Dell Inc.</td>
</tr>
<tr>
<td>Test Date:</td>
<td>Sep-2019</td>
</tr>
<tr>
<td>Hardware Availability:</td>
<td>Sep-2019</td>
</tr>
<tr>
<td>Software Availability:</td>
<td>May-2019</td>
</tr>
</tbody>
</table>

**SPECspeed®2017_int_base = 10.4**

**SPECspeed®2017_int_peak = 10.6**

---

### Platform Notes (Continued)

- **Model name:** Intel (R) Xeon (R) Platinum 8260 CPU @ 2.40GHz
- **Stepping:** 7
- **CPU MHz:** 2400.000
- **CPU max MHz:** 3900.0000
- **CPU min MHz:** 1000.0000
- **BogoMIPS:** 4800.00
- **Virtualization:** VT-x
- **L1d cache:** 32K
- **L1i cache:** 32K
- **L2 cache:** 1024K
- **L3 cache:** 36608K
- **NUMA node0 CPU(s):** 0, 4, 8, 12, 16, 20, 24, 28, 32, 36, 40, 44, 48, 52, 56, 60, 64, 68, 72, 76, 80, 84, 88, 92
- **NUMA node1 CPU(s):** 1, 5, 9, 13, 17, 21, 25, 29, 33, 37, 41, 45, 49, 53, 57, 61, 65, 69, 73, 77, 81, 85, 89, 93
- **NUMA node2 CPU(s):** 2, 6, 10, 14, 18, 22, 26, 30, 34, 38, 42, 46, 50, 54, 58, 62, 66, 70, 74, 78, 82, 86, 90, 94
- **NUMA node3 CPU(s):** 3, 7, 11, 15, 19, 23, 27, 31, 35, 39, 43, 47, 51, 55, 59, 63, 67, 71, 75, 79, 83, 87, 91, 95
- **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 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 cdp lp0
- **/proc/cpuinfo cache data**
  - cache size : 36608 KB

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

  available: 4 nodes (0-3)
  node 0 cpus: 0 4 8 12 16 20 24 28 32 36 40 44 48 52 56 60 64 68 72 76 80 84 88 92
  node 0 size: 191873 MB
  node 0 free: 191598 MB
  node 1 cpus: 1 5 9 13 17 21 25 29 33 37 41 45 49 53 57 61 65 69 73 77 81 85 89 93
  node 1 size: 193521 MB
  node 1 free: 193299 MB
  node 2 cpus: 2 6 10 14 18 22 26 30 34 38 42 46 50 54 58 62 66 70 74 78 82 86 90 94
  node 2 size: 193521 MB
  node 2 free: 193294 MB
  node 3 cpus: 3 7 11 15 19 23 27 31 35 39 43 47 51 55 59 63 67 71 75 79 83 87 91 95

(Continued on next page)
SPEC CPU®2017 Integer Speed Result

Dell Inc.
PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)  

SPECspeed®2017_int_base = 10.4
SPECspeed®2017_int_peak = 10.6

<table>
<thead>
<tr>
<th>CPU2017 License</th>
<th>55</th>
</tr>
</thead>
<tbody>
<tr>
<td>Test Sponsor</td>
<td>Dell Inc.</td>
</tr>
<tr>
<td>Tested by</td>
<td>Dell Inc.</td>
</tr>
</tbody>
</table>

Test Date: Sep-2019
Hardware Availability: Sep-2019
Software Availability: May-2019

**Platform Notes (Continued)**

```
node 3 size: 193518 MB
node 3 free: 192766 MB
node distances:
   node  0  1  2  3
  0: 10 21 21 21
  1: 21 10 21 21
  2: 21 21 10 21
  3: 21 21 21 10
```

From /proc/meminfo
```
MemTotal:       790972924 kB
HugePages_Total:       0
Hugepagesize:       2048 kB
```

```
/usr/bin/lsb_release -d
SUSE Linux Enterprise Server 12 SP4
```

```
From /etc/*release* /etc/*version*
SuSE-release:
   SUSE Linux Enterprise Server 12 (x86_64)
   VERSION = 12
   PATCHLEVEL = 4
# 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-SP4"
   VERSION_ID="12.4"
   PRETTY_NAME="SUSE Linux Enterprise Server 12 SP4"
   ID="sles"
   ANSI_COLOR="0;32"
   CPE_NAME="cpe:/o:suse:sles:12:sp4"
```

```
uname -a:
x86_64 x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

```
CVE-2017-5754 (Meltdown):          Not affected
CVE-2017-5753 (Spectre variant 1): Mitigation: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Indirect Branch Restricted Speculation, IBPB, IBRS_FW
```

```
run-level 3 Sep 9 09:24 last=5
```

SPEC is set to: /home/cpu2017

(Continued on next page)
SPEC CPU®2017 Integer Speed Result

Dell Inc.
PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

SPEC®2017_int_base = 10.4
SPEC®2017_int_peak = 10.6

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

Test Date: Sep-2019
Hardware Availability: Sep-2019
Software Availability: May-2019

Platform Notes (Continued)

Filesystem     Type  Size  Used  Avail  Use%  Mounted on
/dev/sda4      xfs   182G   11G  171G  6%  /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. 2.4.3 08/28/2019
Memory:
  4x 002C069D002C 18ASF2G72PDZ-2G9E1 16 GB 2 rank 2933
  39x 00AD00B300AD HMA82GR7CJR8N-WM 16 GB 2 rank 2933
  5x 00AD063200AD HMA82GR7CJR8N-WM 16 GB 2 rank 2933

(End of data from sysinfo program)

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) C Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 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)
------------------------------------------------------------------------------
Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------

==============================================================================
Fortran | 648.exchange2_s(base, peak)
------------------------------------------------------------------------------
Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R) 64,
Version 19.0.4.227 Build 20190416
Copyright (C) 1985-2019 Intel Corporation. All rights reserved.
------------------------------------------------------------------------------
SPEC CPU®2017 Integer Speed Result

Dell Inc.

PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base = 10.4</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_int_peak = 10.6</td>
</tr>
</tbody>
</table>

CPU2017 License: 55
Test Sponsor: Dell Inc.
Tested by: Dell Inc.
Test Date: Sep-2019
Hardware Availability: Sep-2019
Software Availability: May-2019

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:
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

C++ benchmarks:
-Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.4.227/linux/compiler/lib/intel64
-lqkmalloc

Fortran benchmarks:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs
**SPEC CPU®2017 Integer Speed Result**

**Dell Inc.**

PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

<table>
<thead>
<tr>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>10.4</td>
<td>10.6</td>
</tr>
</tbody>
</table>

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

Test Date: Sep-2019
Hardware Availability: Sep-2019
Software Availability: May-2019

### Peak Compiler Invocation

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

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

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

### Peak Portability Flags

Same as Base Portability Flags

### Peak Optimization Flags

**C benchmarks:**
```bash
600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2
-xCORE-AVX512 -qopt-mem-layout-trans=4 -ipo -O3
-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-AVX512 -qopt-mem-layout-trans=4 -ipo -O3
-no-prec-div -DSPEC_SUPPRESS_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc
```

```bash
605.mcf_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=4
-DSPEC_SUPPRESS_OPENMP -gopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc
```

```bash
625.x264_s: -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -gopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc
```

```bash
657.xz_s: -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-DSPEC_SUPPRESS_OPENMP -gopenmp
-DSPEC_OPENMP -L/usr/local/je5.0.1-64/lib -ljemalloc
```

(Continued on next page)
SPEC CPU®2017 Integer Speed Result

Dell Inc.

PowerEdge R940 (Intel Xeon Platinum 8260, 2.40GHz)

SPECspeed®2017_int_base = 10.4
SPECspeed®2017_int_peak = 10.6

CPU2017 License: 55
Test Sponsor: Dell Inc.
Test Date: Sep-2019
Tested by: Dell Inc.
Hardware Availability: Sep-2019
Software Availability: May-2019

Peak Optimization Flags (Continued)

C++ benchmarks:

620.omnetpp_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX512 -O3 -no-prec-div -qopt-mem-layout-trans=4
-DSPEC_SUPPRESS_OPENMP
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.4.227/linux/compiler/lib/intel64
-lqkmalloc

623.xalancbmk_s: -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.4.227/linux/compiler/lib/intel64
-lqkmalloc

631.deepsjeng_s: Same as 623.xalancbmk_s

641.leela_s: Same as 623.xalancbmk_s

Fortran benchmarks:

-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs

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:

SPEC CPU and SPECspeed are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU®2017 v1.0.5 on 2019-09-09 10:31:17-0400.
Report generated on 2019-10-01 14:12:09 by CPU2017 PDF formatter v6255.
Originally published on 2019-10-01.