**SPEC CPU®2017 Floating Point Speed Result**

**Dell Inc.**

PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)

<table>
<thead>
<tr>
<th>Tests</th>
<th>SPECspeed®2017_fp_base</th>
<th>SPECspeed®2017_fp_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>603.bwaves_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>607.cactuBSSN_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>619.lbm_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>621.wrf_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>627.cam4_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>628.pop2_s</td>
<td>112</td>
<td>234</td>
</tr>
<tr>
<td>638.imagick_s</td>
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<td>234</td>
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<tr>
<td>644.nab_s</td>
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</tr>
<tr>
<td>649.fotonik3d_s</td>
<td>112</td>
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</tr>
<tr>
<td>654.roms_s</td>
<td>112</td>
<td>234</td>
</tr>
</tbody>
</table>

**Hardware**

- **CPU Name:** Intel Xeon Platinum 8280
- **Max MHz:** 4000
- **Nominal:** 2700
- **Enabled:** 112 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:** 38.5 MB I+D on chip per chip
- **Memory:** 768 GB (24 x 32 GB 2Rx4 PC4-2933Y-R)
- **Storage:** 1 x 1.6 TB NVMe SSD
- **Other:** None

**Software**

- **OS:** Ubuntu 18.04.2 LTS
- **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 2.2.9 released May-2019
- **File System:** ext4
- **System State:** Run level 5 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 64-bit
- **Other:** None
- **Power Management:** --
SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)

SPECspeed®2017_fp_base = 216

SPECspeed®2017_fp_peak = 217

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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<tbody>
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<td>779</td>
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<td>48.4</td>
<td>108</td>
<td>45.1</td>
<td>116</td>
<td>112</td>
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<td>621.wrf_s</td>
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<td>39.6</td>
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<td>39.8</td>
<td>396</td>
</tr>
</tbody>
</table>

SPECspeed®2017_fp_base = 216
SPECspeed®2017_fp_peak = 217

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,compact"
LD_LIBRARY_PATH = "~/home/cpu2017/lib/intel64"
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

Platform Notes

BIOS settings:
ADDCD setting disabled
Virtualization Technology disabled
System Profile set to Custom
CPU Performance set to Maximum Performance
C States set to Autonomous
C1E disabled

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

Dell Inc.  
PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)  

SPECspeed®2017_fp_base = 216  
SPECspeed®2017_fp_peak = 217

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

Platform Notes (Continued)

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 9bcd08f2999c33d61f64985e45859ea9
running on intel-sut Mon Aug 26 05:10:22 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 8280 CPU @ 2.70GHz
- 4 "physical id"s (chips)
- 112 "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 : 28
  - siblings : 28
  - physical 0: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  - physical 1: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  - physical 2: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30
  - physical 3: cores 0 1 2 3 4 5 6 8 9 10 11 12 13 14 16 17 18 19 20 21 22 24 25 26 27 28 29 30

From lscpu:

- Architecture: x86_64
- CPU op-mode(s): 32-bit, 64-bit
- Byte Order: Little Endian
- CPU(s): 112
- On-line CPU(s) list: 0-111
- Thread(s) per core: 1
- Core(s) per socket: 28
- Socket(s): 4
- NUMA node(s): 4
- Vendor ID: GenuineIntel
- CPU family: 6
- Model: 85
- Model name: Intel(R) Xeon(R) Platinum 8280 CPU @ 2.70GHz
- Stepping: 7
- CPU MHz: 1582.318

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

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

Test Date: Aug-2019
Hardware Availability: Apr-2019
Software Availability: May-2019

BogoMIPS: 5400.00
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 39424K
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, 96, 100, 104, 108
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, 97, 101, 105, 109
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, 98, 102, 106, 110
NUMA node3 CPU(s):
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 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 aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_l3 cdp_l3 invpcid_single intel_ppn ssbd mba ibrs ibp ibrs-enhanced tpr_shadow vmmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdts_a avx512f avx512dq rdseed adx smap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsave xsavec xsaveopt xsavec xsaveopt xsaveopt xsaves xsaveopt xsaves cmc_l1c qm_mbb_total qm_mbb_local dtherm ida arat pln pts pku ospke avx512_vnni flush_l1d arch_capabilities

/platform/cpuinfo cache data
  cache size: 39424 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 96 100 104 108
  node 0 size: 191913 MB
  node 0 free: 190090 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 97 101 105 109
  node 1 size: 193530 MB
  node 1 free: 192078 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 98 102 106 110
  node 2 size: 193530 MB
  node 2 free: 191276 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 99 103 107 111
  node 3 size: 193508 MB

(Continued on next page)
Dell Inc.
PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)  

**SPECspeed®2017_fp_base = 216**
**SPECspeed®2017_fp_peak = 217**

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

**SPEC CPU®2017 Floating Point Speed Result**

---

**Platform Notes (Continued)**

```
node 3 free: 190637 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:       791022380 kB
  HugePages_Total:       0
  Hugepagesize:       2048 kB

/usr/bin/lsb_release -d
  Ubuntu 18.04.2 LTS

From /etc/*release* /etc/*version*
  debian_version: buster/sid
  os-release:
    NAME="Ubuntu"
    VERSION="18.04.2 LTS (Bionic Beaver)"
    ID=ubuntu
    ID_LIKE=debian
    PRETTY_NAME="Ubuntu 18.04.2 LTS"
    VERSION_ID="18.04"
    HOME_URL="https://www.ubuntu.com/"
    SUPPORT_URL="https://help.ubuntu.com/"

uname -a:
  Linux intel-sut 4.15.0-45-generic #48-Ubuntu SMP Tue Jan 29 16:28:13 UTC 2019 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: Enhanced IBRS, IBPB

run-level 5 Aug 26 00:39

SPEC is set to: /home/cpu2017
  Filesystem Type  Size Used Avail Use% Mounted on
  /dev/sda2 ext4  439G  43G  374G   11% /

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
```

(Continued on next page)
Dell Inc.

PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)

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**Dell Inc.**

**PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)**

**SPECspeed®2017_fp_base = 216**

**SPECspeed®2017_fp_peak = 217**

---

**Platform Notes (Continued)**

frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

BIOS Dell Inc. 2.2.9 05/08/2019

Memory:
24x 00AD00B300AD HMA84GR7CJR4N-WM 32 GB 2 rank 2933
24x Not Specified Not Specified

(End of data from sysinfo program)

---

**Compiler Version Notes**

```
C               | 619.lbm_s(base, peak) 638.imagick_s(base, peak) 644.nab_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++, C, Fortran  | 607.cactuBSSN_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.
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.
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.
-----------------|------------------------|------------------------|------------------------
Fortran          | 603.bwaves_s(base, peak) 649.fotonik3d_s(base, peak) 654.roms_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.
-----------------|------------------------|------------------------|------------------------
Fortran, C       | 621.wrf_s(base, peak) 627.cam4_s(base, peak) 628.pop2_s(base, peak)
```

(Continued on next page)
### Dell Inc.

**PowerEdge R840 (Intel Xeon Platinum 8280, 2.70GHz)**

| SPECspeed®2017_fp_base = 216 |
| SPECspeed®2017_fp_peak = 217 |

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

| Test Date: | Aug-2019  |
| Hardware Availability: | Apr-2019  |
| Software Availability: | May-2019  |

**Compiler Version Notes (Continued)**

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.  
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.

---

### Base Compiler Invocation

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

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

- **Benchmarks using both Fortran and C:**
  - ifort -m64 icc -m64 -std=c11

- **Benchmarks using Fortran, C, and C++:**
  - icpc -m64 icc -m64 -std=c11 ifort -m64

---

### Base Portability Flags

- 603.bwaves.s: -DSPEC_LP64
- 607.cactuBSSN.s: -DSPEC_LP64
- 619.lbm.s: -DSPEC_LP64
- 621.wrf.s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
- 627.cam4.s: -DSPEC_LP64 -DSPEC_CASE_FLAG
- 638.imagick.s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
- 638.imagick.s: -DSPEC_LP64
- 644.nab.s: -DSPEC_LP64
- 649.fotonik3d.s: -DSPEC_LP64
- 654.roms.s: -DSPEC_LP64

---

### Base Optimization Flags

- **C benchmarks:**
  - -xCORE-AVX512 -ipo -03 -no-prec-div -qopt-prefetch
  - -ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP

(Continued on next page)
Base Optimization Flags (Continued)

Fortran benchmarks:
-DSPEC_OPENMP -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
  ffinte-math-only -qopt-mem-layout-trans=4 -qopenmp
  nostandard-realloc-lhs

Benchmarks using both Fortran and C:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
  ffinte-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
  nostandard-realloc-lhs

Benchmarks using Fortran, C, and C++:
-xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
  ffinte-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
  nostandard-realloc-lhs

Peak Compiler Invocation

C benchmarks:
  icc -m64 -std=c11

Fortran benchmarks:
  ifort -m64

Benchmarks using both Fortran and C:
  ifort -m64 icc -m64 -std=c11

Benchmarks using Fortran, C, and C++:
  icpc -m64 icc -m64 -std=c11 ifort -m64

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

(Continued on next page)
Peak Optimization Flags (Continued)

619.lbm_s: -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP

638.imagick_s: basepeak = yes

644.nab_s: basepeak = yes

Fortran benchmarks:

603.bwaves_s: basepeak = yes

649.fotonik3d_s: -prof-gen(pass 1) -prof-use(pass 2) -DSPEC_SUPPRESS_OPENMP -DSPEC_OPENMP -O2 -xCORE-AVX512 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=4 -qopenmp -nostandard-realloc-lhs

654.roms_s: basepeak = yes

Benchmarks using both Fortran and C:

621.wrf_s: -prof-gen(pass 1) -prof-use(pass 2) -O2 -xCORE-AVX512 -qopt-prefetch -ipo -O3 -ffinite-math-only -no-prec-div -qopt-mem-layout-trans=4 -DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP -nostandard-realloc-lhs

627.cam4_s: -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP -nostandard-realloc-lhs

628.pop2_s: Same as 621.wrf_s

Benchmarks using Fortran, C, and C++:

607.cactusBSSN_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:

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Hardware Availability: Apr-2019
Software Availability: May-2019

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