Dell Inc.

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

<table>
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<tr>
<th>SPECspeed®2017_fp_base = 42.6</th>
<th>SPECspeed®2017_fp_peak = 43.6</th>
</tr>
</thead>
</table>

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

**Hardware**

- **CPU Name:** Intel Xeon E-2378G
- **Max MHz:** 5100
- **Nominal:** 2800
- **Enabled:** 8 cores, 1 chip, 2 threads/core
- **Orderable:** 1 chip
- **Cache L1:** 32 KB I + 48 KB D on chip per core
- **L2:** 512 KB I+D on chip per core
- **L3:** 16 MB I+D on chip per chip
- **Other:** None
- **Memory:** 64 GB (2 x 32 GB 2Rx8 PC4-3200AA-E)
- **Storage:** 70 GB on tmpfs
- **Other:** None

**Software**

- **OS:** Red Hat Enterprise Linux 8.4 (Ootpa)
- **Compiler:** C/C++: Version 2021.1 of Intel oneAPI DPC++/C++
- **Firmware:** Version 1.0.1 released Aug-2021
- **File System:** tmpfs
- **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 and OS set to prefer performance at the cost of additional power usage.

---

**Threads**

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<tr>
<th>Thread</th>
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<th>SPECspeed®2017_fp_peak</th>
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<td>607.cactuBSSN_s 8</td>
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<td>619.lbm_s 8</td>
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<td>621.wrf_s 8</td>
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<td>627.cam4_s 8</td>
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<td>38.1</td>
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<td>628.pop2_s 8</td>
<td>8</td>
<td>84.7</td>
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<tr>
<td>638.imagick_s 8</td>
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<td>21.3</td>
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<td>644.nab_s 16</td>
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<tr>
<td>649.fotonik3d_s 8</td>
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<td>654.roms_s 8</td>
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**Test Date:** Aug-2021
**Hardware Availability:** Oct-2021
**Software Availability:** May-2021
**SPEC CPU®2017 Floating Point Speed Result**

**Dell Inc.**

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

**SPECspeed®2017_fp_base = 42.6**

**SPECspeed®2017_fp_peak = 43.6**

---

**Results Table**

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<th>Seconds</th>
<th>Ratio</th>
<th>Threads (Secs)</th>
<th>Seconds</th>
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<td>8 273 19.2</td>
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<td>8 262 33.8</td>
<td>264 33.6</td>
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<tr>
<td>628.pop2_s</td>
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<td>271 43.8</td>
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<td>8 271 43.8</td>
<td>271 43.8</td>
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<tr>
<td>638.imagick_s</td>
<td>8 378 38.1</td>
<td>379 38.1</td>
<td></td>
<td>8 378 38.1</td>
<td>379 38.1</td>
<td></td>
</tr>
<tr>
<td>644.nab_s</td>
<td>8 206 84.7</td>
<td>205 85.1</td>
<td></td>
<td>16 171 102</td>
<td>171 102</td>
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<tr>
<td>649.fotonik3d_s</td>
<td>8 428 21.3</td>
<td>428 21.3</td>
<td></td>
<td>8 428 21.3</td>
<td>428 21.3</td>
<td></td>
</tr>
<tr>
<td>654.roms_s</td>
<td>8 650 24.2</td>
<td>649 24.3</td>
<td></td>
<td>8 650 24.2</td>
<td>649 24.3</td>
<td></td>
</tr>
</tbody>
</table>

**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,compact,1,0"
- LD_LIBRARY_PATH = "/mnt/ramdisk/cpu2017-1.1.8-ic2021.1/lib/intel64:/mnt/ramdisk/cpu2017-1.1.8-ic2021.1/je5.0.1-64"
- MALLOC_CONF = "retain:true"
- OMP_STACKSIZE = "192M"

**General Notes**

Binaries compiled on a system with 1x Intel Core i9-7980XE CPU + 64GB 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


NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

(Continued on next page)
Dell Inc. PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

SPECspeed\textsuperscript{\textregistered}2017\_fp\_base = 42.6

SPECspeed\textsuperscript{\textregistered}2017\_fp\_peak = 43.6

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

Test Date: Aug-2021
Hardware Availability: Oct-2021
Software Availability: May-2021

General Notes (Continued)

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.

Benchmark run from a 70 GB ramdisk created with the cmd: "mount -t tmpfs -o size=70G tmpfs /mnt/ramdisk"

Platform Notes

BIOS settings:

- Virtualization Technology : Disabled
- System Profile : Custom
- CPU Power Management : Maximum Performance
- C1E : Disabled
- C States : Autonomous
- PCI ASPM L1 Link
- Power Management : Disabled

Sysinfo program /mnt/ramdisk/cpu2017-1.1.8-ic2021.1/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
running on localhost.localdomain Tue Aug 31 14:33:15 2021

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) E-2378G CPU @ 2.80GHz
- 1 "physical id"s (chips)
- 16 "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 : 8
  - siblings : 16
  - physical 0: cores 0 1 2 3 4 5 6 7

From lscpu from util-linux 2.32.1:
- Architecture: x86_64
- CPU op-mode(s): 32-bit, 64-bit
- Byte Order: Little Endian
- CPU(s): 16
- On-line CPU(s) list: 0-15
- Thread(s) per core: 2
- Core(s) per socket: 8
SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

Dell Inc.

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

SPECspeed®2017_fp_base = 42.6

SPECspeed®2017_fp_peak = 43.6

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

Socket(s): 1
NUMA node(s): 1
Vendor ID: GenuineIntel
BIOS Vendor ID: Intel
CPU family: 6
Model: 167
Model name: Intel(R) Xeon(R) E-2378G CPU @ 2.80GHz
BIOS Model name: Intel(R) Xeon(R) E-2378G CPU @ 2.80GHz
Stepping: 1
CPU MHz: 4600.000
BogoMIPS: 5616.00
Virtualization: VT-x
L1d cache: 48K
L1i cache: 32K
L2 cache: 512K
L3 cache: 16384K
NUMA node0 CPU(s): 0-15

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
   aperf perfctr tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3
   sdbg fma cx16 xtrmm pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer
   aes xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault invpcid_single ssbd
   ibrs ibpb stibp ibrs_enhanced fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid
   mpx avx512f avx512dq rdseed adx smap avx512ifma clflushopt intel_pt avx512cd sha_ni
   avx512bw avx512vl xsaveopt xsaves dtherm ida arat pln pts avx512vmbmi
   umip pku ospke avx512_vmbmi gfnl vaes vpclmulqdq avx512_vnni avx512_bitalg
   avx512_vpopcntdq rdpid fsgs md_clear flush_l1d arch_capabilities

/platform/cpuinfo/cache.data
   cache size: 16384 KB

From numactl --hardware
   WARNING: a numactl 'node' might or might not correspond to a physical chip.
   available: 1 nodes (0)
   node 0 cpus: 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
   node 0 size: 64026 MB
   node 0 free: 47771 MB
   node distances:
      node 0
      0: 10

From /proc/meminfo
   MemTotal: 65563112 kB
   HugePages_Total: 0
   Hugepagesize: 2048 kB

(Continued on next page)
Dell Inc.

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

CPU2017 License: 55
Test Sponsor: Dell Inc.
Test Date: Aug-2021
Tested by: Dell Inc.
Hardware Availability: Oct-2021
Software Availability: May-2021

Platform Notes (Continued)

/sbin/tuned-adm active
Current active profile: throughput-performance

From /etc/*release* /etc/*version*

os-release:
NAME="Red Hat Enterprise Linux"
VERSION="8.4 (Ootpa)"
ID="rhel"
ID_LIKE="fedora"
VERSION_ID="8.4"
PLATFORM_ID="platform:el8"
PRETTY_NAME="Red Hat Enterprise Linux 8.4 (Ootpa)"
ANSI_COLOR="0;31"

redhat-release: Red Hat Enterprise Linux release 8.4 (Ootpa)
system-release: Red Hat Enterprise Linux release 8.4 (Ootpa)
system-release-cpe: cpe:/o:redhat:enterprise_linux:8.4:ga

uname -a:
Linux localhost.localdomain 4.18.0-305.el8.x86_64 #1 SMP Thu Apr 29 08:54:30 EDT 2021
"x86_64 x86_64 x86_64 GNU/Linux"

Kernel self-reported vulnerability status:

CVE-2018-12207 (iTLB Multihit): Not affected
CVE-2018-3620 (L1 Terminal Fault): Not affected
Microarchitectural Data Sampling: Not affected
CVE-2017-5754 (Meltdown): Not affected
CVE-2018-3639 (Speculative Store Bypass):
Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2017-5753 (Spectre variant 1):
Mitigation: usercopy/swaps barriers and __user pointer sanitization
CVE-2017-5715 (Spectre variant 2):
Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

run-level 3 Aug 31 12:15

SPEC is set to: /mnt/ramdisk/cpu2017-1.1.8-ic2021.1

Filesystem Type Size Used Avail Use% Mounted on
tmpfs tmpfs 70G 11G 60G 15% /mnt/ramdisk

From /sys/devices/virtual/dmi/id
Vendor: Dell Inc.
Product: PowerEdge R350

(Continued on next page)
Dell Inc.  
PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)  

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

**Specs:**  
- SPECspeed®2017_fp_base = 42.6  
- SPECspeed®2017_fp_peak = 43.6  

**CPU2017 License:** 55  
**Test Sponsor:** Dell Inc.  
**Test Date:** Aug-2021  
**Tested by:** Dell Inc.  
**Test Date:** Aug-2021  
**Hardware Availability:** Oct-2021  
**Software Availability:** May-2021

**Platform Notes (Continued)**

Product Family: PowerEdge  
Serial: 7SWFFF3

Additional information from dmidecode 3.2 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:  
2x 002C00000C01 18ASF4G72AZ-3G2B1 32 GB 2 rank 3200

BIOS:  
- BIOS Vendor: Dell Inc.  
- BIOS Version: 1.0.1  
- BIOS Date: 08/18/2021  
- BIOS Revision: 1.0

(End of data from sysinfo program)

**Compiler Version Notes**

<table>
<thead>
<tr>
<th>Compiler</th>
<th>Version</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>C</td>
<td>619.lbm_s(base, peak) 638.imagick_s(base, peak) 644.nab_s(base)</td>
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<tr>
<td>Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000</td>
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## Compiler Version Notes (Continued)

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<th>Compiler, Language</th>
<th>Test Program(s)</th>
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<tr>
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<td>Copyright (C) 1985-2020 Intel Corporation. All rights reserved.</td>
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<tr>
<td>Fortran, C</td>
<td>621.wrf_s(base, peak) 627.cam4_s(base, peak) 628.pop2_s(base, peak)</td>
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Dell Inc.

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)

SPECspeed®2017_fp_base = 42.6
SPECspeed®2017_fp_peak = 43.6

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

Test Date: Aug-2021
Hardware Availability: Oct-2021
Software Availability: May-2021

Base Compiler Invocation

C benchmarks:
icc

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
ifort icc

Benchmarks using Fortran, C, and C++:
icpc icc ifort

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
628.pop2_s: -DSPEC_LP64 -DSPEC_CASE_FLAG -convert big_endian
   -assume byterecl
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:
-m64 -std=c11 -xCORE-AVX512 -ipo -O3 -no-prec-div -qopt-prefetch
-ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp -DSPEC_OPENMP
-mbranches-within-32B-boundaries

Fortran benchmarks:
-m64 -Wl,-z,muldefs -DSPEC_OPENMP -xCORE-AVX512 -ipo -O3
-no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=4 -qopenmp -nostandard-realloc-lhs
-mbranches-within-32B-boundaries -L/usr/local/jemalloc64-5.0.1/lib
   -ljemalloc

Benchmarks using both Fortran and C:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div

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

Benchmarks using both Fortran and C (continued):
-qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp
-DSPEC_OPENMP -mbranches-within-32B-boundaries -nostandard-realloc-lhs
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using Fortran, C, and C++:
-m64 -std=c11 -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=4 -qopenmp
-DSPEC_OPENMP -mbranches-within-32B-boundaries -nostandard-realloc-lhs
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Peak Compiler Invocation

C benchmarks (except as noted below):
icc

644.nab_s: icx

Fortran benchmarks:
ifort

Benchmarks using both Fortran and C:
ifort icc

Benchmarks using Fortran, C, and C++:
icpc icc ifort

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:
619.lbm_s: basepeak = yes
638.imagick_s: basepeak = yes
Dell Inc.  

PowerEdge R350 (Intel Xeon E-2378G, 2.80 GHz)  

<table>
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<tr>
<th>Test Sponsor: Dell Inc.</th>
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<td>Hardware Availability: Oct-2021</td>
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</table>

SPECbenchmarks:

**Peak Optimization Flags (Continued)**

644.nab_s: -m64 -Wl,-z,muldefs -xCORE-AVX512 -Ofast -ffast-math
-ffloat -mfpmath=sse -funroll-loops -ffopenmp
-DSPEC_OPENMP -qopt-mem-layout-trans=4
-fimf-accuracy-bits=14:sqrt
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Fortran benchmarks:

603.bwaves_s: basepeak = yes
649.fotonik3d_s: -m64 -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)
-DSPEC_SUPPRESS_OPENMP -DSPEC_OPENMP -ipo -xCORE-AVX512
-03 -no-prec-div -qopt-prefetch -ffinite-math-only
-qopt-mem-layout-trans=4 -qopenmp -nostandard-realloc-lhs
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

Benchmarks using both Fortran and C:

621.wrf_s: -m64 -std=c11 -Wl,-z,muldefs -prof-gen(pass 1)
-prof-use(pass 2) -ipo -xCORE-AVX512 -03 -no-prec-div
-qopt-prefetch -ffinite-math-only -qopt-mem-layout-trans=4
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP
-mbranches-within-32B-boundaries -nostandard-realloc-lhs
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

627.cam4_s: basepeak = yes
628.pop2_s: basepeak = yes

Benchmarks using Fortran, C, and C++:

607.cactuBSSN_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-ic2021-official-linux64_revA.xml
http://www.spec.org/cpu2017/flags/Dell-Platform-Flags-PowerEdge-Intel-ICX-rev1.4.xml
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<td>Test Date: Aug-2021</td>
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<td>Test Sponsor: Dell Inc.</td>
<td>Hardware Availability: Oct-2021</td>
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<td>Tested by: Dell Inc.</td>
<td>Software Availability: May-2021</td>
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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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