**ASUSTeK Computer Inc.**

ASUS RS700-E9(Z11PP-D24) Server System  
(2.10 GHz, Intel Xeon Platinum 8176)

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</table>

**SPECspeed2017_int_base** = 9.30  
**SPECspeed2017_int_peak** = 9.58

---

**Hardware**

- **CPU Name:** Intel Xeon Platinum 8176  
  - **Max MHz.:** 3800  
  - **Nominal:** 2100  
  - **Enabled:** 56 cores, 2 chips  
  - **Orderable:** 1, 2 chip(s)  
  - **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  
  - **Other:** None  
  - **Memory:** 384 GB (24 x 16 GB 2Rx4 PC4-2666V-R)  
  - **Storage:** 1 x 240 GB SATA SSD  
  - **Other:** None

**Software**

- **OS:** Red Hat Enterprise Linux Server release 7.3 (x86_64) (Maipo)  
  - **Kernel:** 3.10.0-514.el7.x86_64  
  - **Compiler:** C/C++: Version 18.0.0.128 of Intel C/C++ Compiler for Linux; Fortran: Version 18.0.0.128 of Intel Fortran Compiler for Linux  
  - **Parallel:** Yes  
  - **Firmware:** Version 0601 released Oct-2017  
  - **File System:** xfs  
  - **System State:** Run level 3 (multi-user)  
  - **Base Pointers:** 64-bit  
  - **Peak Pointers:** 32/64-bit  
  - **Other:** jemalloc: jemalloc memory allocator library V5.0.1
SPEC CPU2017 Integer Speed Result

ASUSTeK Computer Inc.
ASUS RS700-E9(Z11PP-D24) Server System
(2.10 GHz, Intel Xeon Platinum 8176)

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ASUSTeK Computer Inc.
(2.10 GHz, Intel Xeon Platinum 8176)
ASUS RS700-E9(Z11PP-D24) Server System

SPECspeed2017_int_base = 9.30
SPECspeed2017_int_peak = 9.58

Results Table

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</table>

SPECspeed2017_int_base = 9.30
SPECspeed2017_int_peak = 9.58

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"
OMP_STACKSIZE = "192M"

Binaries compiled on a system with 1x Intel Core i7-4790 CPU + 32GB RAM
memory using Redhat Enterprise Linux 7.4
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: configured and built at default for
32bit (i686) and 64bit (x86_64) targets;
jemalloc: built with the RedHat Enterprise 7.4,
and the system compiler gcc 4.8.5;
jemalloc: sources avilable from jemalloc.net or
No: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)
is mitigated in the system as tested and documented.
No: 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.
No: 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.

(Continued on next page)
ASUSTeK Computer Inc.
ASUS RS700-E9(Z11PP-D24) Server System
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SPECspeed2017_int_base = 9.30
SPECspeed2017_int_peak = 9.58

General Notes (Continued)

This benchmark result is intended to provide perspective on past performance using the historical hardware and/or software described on this result page.

The system as described on this result page was formerly generally available. At the time of this publication, it may not be shipping, and/or may not be supported, and/or may fail to meet other tests of General Availability described in the SPEC OSG Policy document, http://www.spec.org/osg/policy.html

This measured result may not be representative of the result that would be measured were this benchmark run with hardware and software available as of the publication date.

Platform Notes

BIOS Configuration:
SNC = Disabled
IMC interleaving = AUTO
Patrol Scrub = Disabled
VT-d = Disabled
HyperThreading = Disabled
Sysinfo program /spec2017/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bccc091c0f
running on localhost.localdomain Fri Dec 22 15:28:52 2017

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 8176 CPU @ 2.10GHz
  2 "physical id"s (chips)
  56 "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

From lscpu:
  Architecture: x86_64
SPEC CPU2017 Integer Speed Result

ASUSTeK Computer Inc.
ASUS RS700-E9(Z11PP-D24) Server System
(2.10 GHz, Intel Xeon Platinum 8176)

SPECspeed2017_int_base = 9.30
SPECspeed2017_int_peak = 9.58

CPU2017 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Tested by: ASUSTeK Computer Inc.

Platform Notes (Continued)

CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 56
On-line CPU(s) list: 0-55
Thread(s) per core: 1
Core(s) per socket: 28
Socket(s): 2
NUMA node(s): 2
Vendor ID: GenuineIntel
CPU family: 6
Model: 85
Model name: Intel(R) Xeon(R) Platinum 8176 CPU @ 2.10GHz
Stepping: 4
CPU MHz: 2521.722
BogoMIPS: 4205.23
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 1024K
L3 cache: 39424K
NUMA node0 CPU(s): 0-27
NUMA node1 CPU(s): 28-55

/proc/cpuinfo cache data

cache size : 39424 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 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27
node 0 size: 195214 MB
node 0 free: 184867 MB
node 1 cpus: 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55
node 1 size: 196608 MB
node 1 free: 191870 MB
node distances:
node 0 1
0: 10 21
1: 21 10

From /proc/meminfo

MemTotal: 394625976 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

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

(Continued on next page)
ASUSTeK Computer Inc.  
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CPU2017 License: 9016  
Test Date: Dec-2017  
Test Sponsor: ASUSTeK Computer Inc.

Platform Notes (Continued)

```
os-release:
 NAME="Red Hat Enterprise Linux Server"
 VERSION="7.3 (Maipo)"
 ID="rhel"
 ID_LIKE="fedora"
 VERSION_ID="7.3"
 PRETTY_NAME="Red Hat Enterprise Linux Server 7.3 (Maipo)"
 ANSI_COLOR="0;31"
 CPE_NAME="cpe:/o:redhat:enterprise_linux:7.3:GA:server"
 redhat-release: Red Hat Enterprise Linux Server release 7.3 (Maipo)
 system-release: Red Hat Enterprise Linux Server release 7.3 (Maipo)
```

```
uname -a:
 Linux localhost.localdomain 3.10.0-514.el7.x86_64 #1 SMP Wed Oct 19 11:24:13 EDT 2016
 x86_64 x86_64 x86_64 GNU/Linux
```

```
run-level 3 Dec 22 15:28
 SPEC is set to: /spec2017
 /dev/sda3  xfs  220G  60G  160G  28% /
```

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 American Megatrends Inc. 0601 10/17/2017
Memory:
  24x Micron 18ASF2G72PDZ-2G6D1 16 GB 2 rank 2666
```

Compiler Version Notes

```
cc 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_s(base, peak) 657.xz_s(base)
```

```
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

```
cc 600.perlbench_s(peak) 602.gcc_s(peak) 605.mcf_s(peak) 657.xz_s(peak)
```

(Continued on next page)
**SPEC CPU2017 Integer Speed Result**

**ASUSTeK Computer Inc.**
ASUS RS700-E9(Z11PP-D24) Server System (2.10 GHz, Intel Xeon Platinum 8176)

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**CPU2017 License:** 9016
**Test Sponsor:** ASUSTeK Computer Inc.
**Test Date:** Dec-2017
**Tested by:** ASUSTeK Computer Inc.
**Software Availability:** Sep-2017

<table>
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<tr>
<th>Compiler Version Notes (Continued)</th>
</tr>
</thead>
</table>

```
icc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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

```
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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

```
icpc (ICC) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

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

```
ifort (IFORT) 18.0.0 20170811
Copyright (C) 1985-2017 Intel Corporation. All rights reserved.
```

**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
```

(Continued on next page)
ASUSTeK Computer Inc.
ASUS RS700-E9(Z11PP-D24) Server System
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**CPU2017 License:** 9016
**Test Sponsor:** ASUSTeK Computer Inc.
**Tested by:** ASUSTeK Computer Inc.

**Test Date:** Dec-2017
**Hardware Availability:** Jul-2017
**Software Availability:** Sep-2017

---

### Base Portability Flags (Continued)

- 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=3 -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=3 -L/usr/local/je5.0.1-64/lib -ljemalloc
- **Fortran benchmarks:**
  - -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
  - -qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte
  - -L/usr/local/je5.0.1-64/lib -ljemalloc

---

### Peak Compiler Invocation

- **C benchmarks:**
  - icc -m64 -std=c11
- **C++ benchmarks (except as noted below):**
  - icpc -m64
- **Fortran benchmarks:**
  - ifort -m64

- 623.xalancbmk_s: icpc -m32 -L/opt/intel/compilers_and_libraries_2018/linux/lib/ia32
ASUSTeK Computer Inc.
ASUS RS700-E9(Z11PP-D24) Server System
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SPECspeed2017_int_base = 9.30
SPECspeed2017_int_peak = 9.58

CPU2017 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Tested by: ASUSTeK Computer Inc.

Test Date: Dec-2017
Hardware Availability: Jul-2017
Software Availability: Sep-2017

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: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -O2
-xCORE-AVX512 -qopt-mem-layout-trans=3 -ipo -O3
-no-prec-div -DSPEC_SUPPRESS_OPENMP -qopenmp
-DSPEC_OPENMP -fno-strict-overflow
-L/usr/local/je5.0.1-64/lib -ljemalloc

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

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=3
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

625.x264_s: -Wl,-z,muldefs -xCORE-AVX512 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=3 -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

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-mem-layout-trans=3
-DSPEC_SUPPRESS_OPENMP -qopenmp -DSPEC_OPENMP
-L/usr/local/je5.0.1-64/lib -ljemalloc

(Continued on next page)
ASUSTeK Computer Inc.  
ASUS RS700-E9(Z11PP-D24) Server System  
(2.10 GHz, Intel Xeon Platinum 8176)

**SPEC CPU2017 Integer Speed Result**

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\[ \begin{array}{ll}
\text{CPU2017 License:} & 9016 \\
\text{Test Sponsor:} & \text{ASUSTeK Computer Inc.} \\
\text{Tested by:} & \text{ASUSTeK Computer Inc.} \\
\end{array} \]

\[ \begin{array}{ll}
\text{Test Date:} & \text{Dec-2017} \\
\text{Hardware Availability:} & \text{Jul-2017} \\
\text{Software Availability:} & \text{Sep-2017} \\
\end{array} \]

\[ \begin{array}{ll}
\text{SPECspeed2017_int_base} & 9.30 \\
\text{SPECspeed2017_int_peak} & 9.58 \\
\end{array} \]

**Peak Optimization Flags (Continued)**

623.xalancbmk_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo  
-xCORE-AVX512 -O3 -no-prec-div -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 -xCORE-AVX512 -ipo -O3 -no-prec-div  
-qopt-mem-layout-trans=3 -nostandard-realloc-lhs -align array32byte  
-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.

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