## SPEC® CPU2017 Integer Rate Result

### ASUSTeK Computer Inc.

ASUS RS300-E10(P11C-C/4L) Server System  
(3.30 GHz, Intel Xeon E-2126G)

### SPECrate2017_int_base = 39.2

### SPECrate2017_int_peak = 40.5

<table>
<thead>
<tr>
<th>Test Sponsor:</th>
<th>ASUSTeK Computer Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hardware Avail.</td>
<td>Dec-2018</td>
</tr>
<tr>
<td>Software Avail.</td>
<td>Nov-2018</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test Date:</th>
<th>May-2019</th>
</tr>
</thead>
<tbody>
<tr>
<td>CPU2017 License:</td>
<td>9016</td>
</tr>
<tr>
<td>Tested by:</td>
<td>ASUSTeK Computer Inc.</td>
</tr>
</tbody>
</table>

### Hardware

- **CPU Name:** Intel Xeon E-2126G  
- **Max MHz.:** 4500  
- **Nominal:** 3300  
- **Enabled:** 6 cores, 1 chip  
- **Orderable:** 1 chip  
- **Cache L1:** 32 KB I + 32 KB D on chip per core  
- **L2:** 256 KB I+D on chip per core  
- **L3:** 12 MB I+D on chip per chip  
- **Memory:** 64 GB (4 x 16 GB 2Rx8 PC4-2666V-E)  
- **Storage:** 1 x 500 GB SATA HDD, 7200RPM  
- **Other:** None

### Software

- **OS:** SUSE Linux Enterprise Server 12 (x86_64) SP3  
- **Compiler:** C/C++: Version 19.0.1.144 of Intel C/C++  
- **Compiler Build:** 20181018 for Linux; Fortran: Version 19.0.1.144 of Intel Fortran  
- **Compiler Build:** 20181018 for Linux  
- **Parallel:** No  
- **Firmware:** Version 0502 released Nov-2018  
- **File System:** btrfs  
- **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

### Results

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>SPECrate2017_int_base</th>
<th>SPECrate2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>perlbench_r</td>
<td>6</td>
<td>33.7</td>
<td>39.3</td>
</tr>
<tr>
<td>gcc_r</td>
<td>6</td>
<td>22.2</td>
<td>22.1</td>
</tr>
<tr>
<td>mcf_r</td>
<td>6</td>
<td>28.6</td>
<td>28.7</td>
</tr>
<tr>
<td>omnetpp_r</td>
<td>6</td>
<td>21.1</td>
<td>21.1</td>
</tr>
<tr>
<td>xalancbmk_r</td>
<td>6</td>
<td>33.5</td>
<td>33.5</td>
</tr>
<tr>
<td>x264_r</td>
<td>6</td>
<td>22.2</td>
<td>22.1</td>
</tr>
<tr>
<td>deepsjeng_r</td>
<td>6</td>
<td>47.5</td>
<td>47.4</td>
</tr>
<tr>
<td>leela_r</td>
<td>6</td>
<td>47.2</td>
<td>47.4</td>
</tr>
<tr>
<td>exchange2_r</td>
<td>6</td>
<td>92.0</td>
<td>94.9</td>
</tr>
<tr>
<td>xz_r</td>
<td>6</td>
<td>76.8</td>
<td>76.9</td>
</tr>
</tbody>
</table>

---

**Legend:**  
- **SPECrate2017_int_base:** 39.2  
- **SPECrate2017_int_peak:** 40.5  

---

**Notes:**  
- The CPU2017 results are based on the SPEC® CPU2017 benchmark suite.  
- The test configuration includes an ASUS RS300-E10(P11C-C/4L) Server System with an Intel Xeon E-2126G processor, running SUSE Linux Enterprise Server 12 (x86_64) SP3.  
- The test was conducted on May 2019, and the hardware and software availability dates are Dec-2018 and Nov-2018, respectively.  
- The CPU2017 License is 9016.  
- The tested system includes 64 GB of memory and 1 x 500 GB SATA HDD.  
- The firmware version is 0502 released Nov-2018.  
- The results are for a single copy of each benchmark.  

---

**Disclaimer:**  
The results presented are for informational purposes only and should not be used for commercial or legal decisions.  
The SPEC® Benchmark Suite is a registered trademark of the Standard Performance Evaluation Corporation (SPEC).  
Further information is available at https://www.spec.org.
ASUSTeK Computer Inc.
ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

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

SPECrate2017_int_base = 39.2
SPECrate2017_int_peak = 40.5

Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Copies</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
</tr>
</thead>
<tbody>
<tr>
<td>500.perlbench_r</td>
<td>6</td>
<td>283</td>
<td>33.8</td>
<td>284</td>
<td>33.6</td>
<td>284</td>
<td>33.7</td>
<td>6</td>
<td>243</td>
<td>39.3</td>
<td>244</td>
<td>39.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>502.gcc_r</td>
<td>6</td>
<td>237</td>
<td>35.8</td>
<td>237</td>
<td>35.8</td>
<td>238</td>
<td>35.7</td>
<td>6</td>
<td>206</td>
<td>41.1</td>
<td>207</td>
<td>41.1</td>
<td>207</td>
<td>41.1</td>
</tr>
<tr>
<td>505.mcf_r</td>
<td>6</td>
<td>205</td>
<td>47.4</td>
<td>205</td>
<td>47.4</td>
<td>204</td>
<td>47.5</td>
<td>6</td>
<td>204</td>
<td>47.5</td>
<td>204</td>
<td>47.5</td>
<td></td>
<td></td>
</tr>
<tr>
<td>520.omnetpp_r</td>
<td>6</td>
<td>355</td>
<td>22.1</td>
<td>355</td>
<td>22.2</td>
<td>355</td>
<td>22.2</td>
<td>6</td>
<td>356</td>
<td>22.1</td>
<td>354</td>
<td>22.2</td>
<td>355</td>
<td>22.1</td>
</tr>
<tr>
<td>523.xalancbmk_r</td>
<td>6</td>
<td>134</td>
<td>47.2</td>
<td>134</td>
<td>47.2</td>
<td>135</td>
<td>46.9</td>
<td>6</td>
<td>132</td>
<td>48.0</td>
<td>133</td>
<td>47.6</td>
<td>134</td>
<td>47.1</td>
</tr>
<tr>
<td>525.x264_r</td>
<td>6</td>
<td>114</td>
<td>91.8</td>
<td>114</td>
<td>92.0</td>
<td>114</td>
<td>92.0</td>
<td>6</td>
<td>111</td>
<td>94.9</td>
<td>111</td>
<td>94.8</td>
<td>111</td>
<td>94.9</td>
</tr>
<tr>
<td>531.deepsjeng_r</td>
<td>6</td>
<td>205</td>
<td>33.5</td>
<td>206</td>
<td>33.5</td>
<td>205</td>
<td>33.5</td>
<td>6</td>
<td>205</td>
<td>33.5</td>
<td>205</td>
<td>33.5</td>
<td>205</td>
<td>33.5</td>
</tr>
<tr>
<td>541.leela_r</td>
<td>6</td>
<td>347</td>
<td>28.6</td>
<td>347</td>
<td>28.6</td>
<td>347</td>
<td>28.7</td>
<td>6</td>
<td>347</td>
<td>28.6</td>
<td>347</td>
<td>28.7</td>
<td>347</td>
<td>28.7</td>
</tr>
<tr>
<td>548.exchange2_r</td>
<td>6</td>
<td>205</td>
<td>76.8</td>
<td>204</td>
<td>77.0</td>
<td>205</td>
<td>76.8</td>
<td>6</td>
<td>204</td>
<td>76.9</td>
<td>205</td>
<td>76.8</td>
<td>203</td>
<td>77.4</td>
</tr>
</tbody>
</table>

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

Submit Notes

The taskset mechanism was used to bind copies to processors. The config file option 'submit' was used to generate taskset commands to bind each copy to a specific processor. For details, please see the config file.

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:
LD_LIBRARY_PATH = "/spec2017_new/lib/ia32:/spec2017_new/lib/intel64:
/spec2017_new/je5.0.1-32:/spec2017_new/je5.0.1-64"

Binaries compiled on a system with 1x Intel Core i9-7900X CPU + 32GB RAM memory using Redhat Enterprise Linux 7.5
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;
Yes: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown)
SPEC CPU2017 Integer Rate Result

ASUSTeK Computer Inc.
ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECrate2017_int_base = 39.2
SPECrate2017_int_peak = 40.5

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

Test Date: May-2019
Hardware Availability: Dec-2018
Software Availability: Nov-2018

General Notes (Continued)

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.

Platform Notes

BIOS Configuration:
VT-d = Disabled
AES = Disabled
Hardware Prefetcher = Disabled
Adjacent Cache Line Prefetch = Disabled
Race to Halt (RTH) = Disabled

Sysinfo program /spec2017_new/bin/sysinfo
Rev: r5974 of 2018-05-19 9bcede8f2999c33d61f64985e45859ea9
running on linux-pmm5 Thu May 16 16:31:07 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) E-2126G CPU @ 3.30GHz
1 "physical id"s (chips)
6 "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 : 6
siblings : 6
physical 0: cores 0 1 2 3 4 5

From lscpu:
Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 6
On-line CPU(s) list: 0-5
Thread(s) per core: 1
Core(s) per socket: 6
Socket(s): 1
NUMA node(s): 1
Vendor ID: GenuineIntel
CPU family: 6
Model: 158
Model name: Intel(R) Xeon(R) E-2126G CPU @ 3.30GHz

(Continued on next page)
SPEC CPU2017 Integer Rate Result
Copyright 2017-2019 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.
ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECrate2017_int_base = 39.2
SPECrate2017_int_peak = 40.5

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

Test Date: May-2019
Hardware Availability: Dec-2018
Software Availability: Nov-2018

---

Platform Notes (Continued)

Stepping: 10
CPU MHz: 4387.659
CPU max MHz: 4500.0000
CPU min MHz: 800.0000
BogoMIPS: 6623.97
Virtualization: VT-x
L1d cache: 32K
L1i cache: 32K
L2 cache: 256K
L3 cache: 12288K
NUMA node0 CPU(s): 0-5
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 pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
fma cx16 xtpr pdcm pclidsse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer xsave
avx f16c rdrand lahf_lm abm 3dnowprefetch ida arat epb invpcid_single pin pts dtherm
hwp hwp_notify hwp_act_window hwp_epp intel_pt rsb_ctxsw spec_ctrl stibp retpoline
kaiser tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep
bmi2 erms invpcid rtm mpx rdseed adx smap clflushopt xsaveopt xsavec xgetbv1

/proc/cpuinfo cache data
  cache size : 12288 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
  node 0 size: 64314 MB
  node 0 free: 63817 MB
  node distances:
    node 0
    0: 10

From /proc/meminfo
  MemTotal: 65858368 kB
  HugePages_Total: 0
  Hugepagesize: 2048 kB

From /etc/*release* /etc/*version*
  SuSE-release:
    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:

(Continued on next page)
ASUSTeK Computer Inc.

ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECrate2017_int_base = 39.2
SPECrate2017_int_peak = 40.5

Platform Notes (Continued)

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-pmm5 4.4.120-94.17-default #1 SMP Wed Mar 14 17:23:00 UTC 2018 (cf3a7bb)
    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: __user pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: IBRS+IBPB

run-level 3 May 16 16:30

SPEC is set to: /spec2017_new

Filesystem     Type   Size  Used Avail Use% Mounted on
/dev/sda2      btrfs  445G  129G  316G  29% /

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. 0502 11/15/2018
Memory:
    4x Samsung M391A2K43BB1-CTD 16 GB 2 rank 2667, configured at 2666

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
CC  502.gcc_r(peak)
==============================================================================

Intel(R) C Intel(R) 64 Compiler for applications running on IA-32, Version 19.0.1.144 Build 20181018
Copyright (C) 1985-2018 Intel Corporation. All rights reserved.
==============================================================================

==============================================================================
CC  500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base, peak)
(Continued on next page)
## SPEC CPU2017 Integer Rate Result

**ASUSTeK Computer Inc.**

ASUS RS300-E10(P11C-C/4L) Server System  
(3.30 GHz, Intel Xeon E-2126G)

<table>
<thead>
<tr>
<th>SPECrate2017_int_base</th>
<th>39.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECrate2017_int_peak</td>
<td>40.5</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9016  
**Test Date:** May-2019  
**Test Sponsor:** ASUSTeK Computer Inc.  
**Hardware Availability:** Dec-2018  
**Tested by:** ASUSTeK Computer Inc.  
**Software Availability:** Nov-2018

### Compiler Version Notes (Continued)

525.x264_r(base, peak) 557.xz_r(base, peak)

<table>
<thead>
<tr>
<th>Compiler Invocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.1.144 Build 20181018</td>
</tr>
<tr>
<td>Copyright (C) 1985-2018 Intel Corporation. All rights reserved.</td>
</tr>
</tbody>
</table>

500.perlbench_r(peak)

<table>
<thead>
<tr>
<th>Compiler Invocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel(R) C Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.1.144 Build 20181018</td>
</tr>
<tr>
<td>Copyright (C) 1985-2018 Intel Corporation. All rights reserved.</td>
</tr>
</tbody>
</table>

523.xalancbmk_r(peak)

<table>
<thead>
<tr>
<th>Compiler Invocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel(R) C++ Intel(R) 64 Compiler for applications running on IA-32, Version 19.0.1.144 Build 20181018</td>
</tr>
<tr>
<td>Copyright (C) 1985-2018 Intel Corporation. All rights reserved.</td>
</tr>
</tbody>
</table>

520.omnetpp_r(base, peak) 523.xalancbmk_r(base) 531.deepsjeng_r(base, peak) 541.leela_r(base, peak)

<table>
<thead>
<tr>
<th>Compiler Invocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel(R) C++ Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.1.144 Build 20181018</td>
</tr>
<tr>
<td>Copyright (C) 1985-2018 Intel Corporation. All rights reserved.</td>
</tr>
</tbody>
</table>

548.exchange2_r(base, peak)

<table>
<thead>
<tr>
<th>Compiler Invocation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R) 64, Version 19.0.1.144 Build 20181018</td>
</tr>
<tr>
<td>Copyright (C) 1985-2018 Intel Corporation. All rights reserved.</td>
</tr>
</tbody>
</table>

### Base Compiler Invocation

C benchmarks:

```bash
icc -m64 -std=cl1
```

(Continued on next page)
SPEC CPU2017 Integer Rate Result

ASUSTeK Computer Inc.
ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECraten2017_int_base = 39.2
SPECraten2017_int_peak = 40.5

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

Test Date: May-2019
Hardware Availability: Dec-2018
Software Availability: Nov-2018

Base Compiler Invocation (Continued)

C++ benchmarks:
icpc -m64

Fortran benchmarks:
ifort -m64

Base Portability Flags

500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64
502.gcc_r: -DSPEC_LP64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -DSPEC_LP64 -DSPEC_LINUX
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

C++ benchmarks:
-Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

Fortran benchmarks:
-Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc
SPEC CPU2017 Integer Rate Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

ASUSTeK Computer Inc.
ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECRate2017_int_base = 39.2
SPECRate2017_int_peak = 40.5

CPU2017 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Test Date: May-2019
Tested by: ASUSTeK Computer Inc.
Hardware Availability: Dec-2018
Software Availability: Nov-2018

Peak Compiler Invocation

C benchmarks (except as noted below):
  icc -m64 -std=c11


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

523.xalancbmk_r: icpc -m32 -L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/ia32_lin

Fortran benchmarks:
ifort -m64

Peak Portability Flags

500.perlbench_r: -DSPEC_LP64 -DSPEC_LINUX_X64
502.gcc_r: -D_FILE_OFFSET_BITS=64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -D_FILE_OFFSET_BITS=64 -DSPEC_LINUX
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Peak Optimization Flags

C benchmarks:
500.perlbench_r: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX2 -O3 -no-prec-div -qopt-mem-layout-trans=4
-fno-strict-overflow
-L/usr/local/IntelCompiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqmalloc

502.gcc_r: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX2 -O3 -no-prec-div -qopt-mem-layout-trans=4
-L/usr/local/je5.0.1-32/lib -ljemalloc

505.mcf_r: -Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4

(Continued on next page)
ASUSTeK Computer Inc.

ASUS RS300-E10(P11C-C/4L) Server System
(3.30 GHz, Intel Xeon E-2126G)

SPECrate2017_int_base = 39.2
SPECrate2017_int_peak = 40.5

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

Peak Optimization Flags (Continued)

505.mcf_r (continued):
-L/usr/local/Intel Compiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

525.x264_r -Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -fno-alias
-L/usr/local/Intel Compiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

557.xz_r: Same as 505.mcf_r

C++ benchmarks:

520.omnetpp_r -Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4
-L/usr/local/Intel Compiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

523.xalancbmk_r -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2) -ipo
-xCORE-AVX2 -O3 -no-prec-div -qopt-mem-layout-trans=4
-L/usr/local/je5.0.1-32/lib -ljemalloc

531.deepsjeng_r: Same as 520.omnetpp_r

541.leela_r: Same as 520.omnetpp_r

Fortran benchmarks:
-Wl,-z,muldefs -xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -nostandard-realloc-lhs -align array32byte
-L/usr/local/Intel Compiler19/compilers_and_libraries_2019.1.144/linux/compiler/lib/intel64
-lqkmalloc

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 CPU2017 Integer Rate Result

**ASUSTeK Computer Inc.**

ASUS RS300-E10(P11C-C/4L) Server System  
(3.30 GHz, Intel Xeon E-2126G)

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECrate2017_int_base</td>
<td>39.2</td>
</tr>
<tr>
<td>SPECrate2017_int_peak</td>
<td>40.5</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9016  
**Test Date:** May-2019

**Test Sponsor:** ASUSTeK Computer Inc.  
**Hardware Availability:** Dec-2018

**Tested by:** ASUSTeK Computer Inc.  
**Software Availability:** Nov-2018

---

SPEC is a registered trademark 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 CPU2017 v1.0.5 on 2019-05-16 04:31:06-0400.  