# SPEC CPU®2017 Integer Speed Result

## ASUSTeK Computer Inc.

**ASUS RS300-E11(P12R-M) Server System**  
(3.40 GHz, Intel Xeon E-2334)

<table>
<thead>
<tr>
<th>Test Sponsor</th>
<th>ASUSTeK Computer Inc.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tested by</td>
<td>ASUSTeK Computer Inc.</td>
</tr>
</tbody>
</table>

**CPU2017 License:** 9016  
**Test Date:** Jan-2022  
**Hardware Availability:** Oct-2021

**Software**

| OS:     | Red Hat Enterprise Linux release 8.4 (Ootpa)  
|---------|-----------------------------------------------|
| Compiler: | C/C++: Version 2021.1 of Intel oneAPI DPC++/C++  
|          | Fortran: Version 2021.1 of Intel Fortran Compiler  
|          | Classic Build 20201113 for Linux;  
|          | C/C++: Version 2021.1 of Intel C/C++ Compiler  
|          | Classic Build 20210112 for Linux |
| Parallel: | Yes |
| Firmware: | Version 0401 released Oct-2021 |
| 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: | BIOS and OS set to prefer performance  
|                  | at the cost of additional power usage. |

---

**SPECspeed®2017_int_base = 14.2**  
**SPECspeed®2017_int_peak = 14.5**

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>threads</th>
<th>SPECspeed®2017_int_base</th>
<th>SPECspeed®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>perlbench_s</td>
<td>8</td>
<td>14.1</td>
<td>14.5</td>
</tr>
<tr>
<td>gcc_s</td>
<td>8</td>
<td>27.5</td>
<td>24.8</td>
</tr>
<tr>
<td>mcf_s</td>
<td>8</td>
<td>28.0</td>
<td>24.0</td>
</tr>
<tr>
<td>omnetpp_s</td>
<td>8</td>
<td>18.9</td>
<td>23.6</td>
</tr>
<tr>
<td>xalancbmk_s</td>
<td>8</td>
<td>6.58</td>
<td>24.8</td>
</tr>
<tr>
<td>x264_s</td>
<td>8</td>
<td>8.04</td>
<td>23.6</td>
</tr>
<tr>
<td>deepsjeng_s</td>
<td>8</td>
<td>8.04</td>
<td>28.0</td>
</tr>
<tr>
<td>leela_s</td>
<td>8</td>
<td>13.9</td>
<td>SPECspeed®2017_int_peak (14.5)</td>
</tr>
</tbody>
</table>

---

**Hardware**

<table>
<thead>
<tr>
<th>CPU Name:</th>
<th>Intel Xeon E-2334</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max MHz:</td>
<td>4800</td>
</tr>
<tr>
<td>Nominal:</td>
<td>3400</td>
</tr>
<tr>
<td>Enabled:</td>
<td>4 cores, 1 chip, 2 threads/core</td>
</tr>
<tr>
<td>Orderable:</td>
<td>1 chip</td>
</tr>
<tr>
<td>Cache L1:</td>
<td>32 KB I + 48 KB D on chip per core</td>
</tr>
<tr>
<td>L2:</td>
<td>512 KB I+D on chip per core</td>
</tr>
<tr>
<td>L3:</td>
<td>8 MB I+D on chip per chip</td>
</tr>
<tr>
<td>Other:</td>
<td>None</td>
</tr>
<tr>
<td>Memory:</td>
<td>128 GB (4 x 32 GB 2Rx8 PC4-3200AA-E, running at 2933)</td>
</tr>
<tr>
<td>Storage:</td>
<td>1 x 960 GB SATA SSD</td>
</tr>
<tr>
<td>Other:</td>
<td>None</td>
</tr>
</tbody>
</table>

---

**Other:**

| Power Management: | BIOS and OS set to prefer performance  
|                  | at the cost of additional power usage. |
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>Threads</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
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<th>Seconds</th>
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<th>Seconds</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>600.perlbench_s</td>
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<td>8.93</td>
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<td>8.94</td>
<td>8</td>
<td>171</td>
<td>10.4</td>
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<td>10.4</td>
<td>172</td>
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<td>282</td>
<td>14.1</td>
<td>283</td>
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<td>172</td>
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<td>27.5</td>
<td>171</td>
<td>27.6</td>
<td>8</td>
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<td>27.5</td>
<td>171</td>
<td>27.6</td>
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<tr>
<td>620.omnetpp_s</td>
<td>8</td>
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<td>10.2</td>
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<td>648.exchange2_s</td>
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<td>28.0</td>
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<td>27.8</td>
<td>105</td>
<td>28.0</td>
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<tr>
<td>657.xz_s</td>
<td>8</td>
<td>446</td>
<td>13.9</td>
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<td>13.9</td>
<td>445</td>
<td>13.9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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"
OS set to performance mode via cpupower frequency-set -g performance

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH = "/home/cpu118/lib/intel64:/home/cpu118/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
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.

(Continued on next page)
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SPECspeed®2017_int_base = 14.2  
SPECspeed®2017_int_peak = 14.5

General Notes (Continued)

jemalloc, a general purpose malloc implementation  
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5  

Platform Notes

BIOS Configuration:  
VT-d = Disabled  
AES = Disabled  
Intel Speed Shift Technology = Native Mode  
Engine Boost = Level3(Max)

Sysinfo program /home/cpu118/bin/sysinfo  
Rev: r6622 of 2021-04-07 9b2a61ec0915b55891ef0e16a8af64d  
running on localhost.localdomain Wed Jan 19 17:05:40 2022

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-2334 CPU @ 3.40GHz  
  1 "physical id"s (chips)  
  8 "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 : 4  
  siblings : 8  
  physical 0: cores 0 1 2 3

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): 8  
  On-line CPU(s) list: 0-7  
  Thread(s) per core: 2  
  Core(s) per socket: 4  
  Socket(s): 1  
  NUMA node(s): 1  
  Vendor ID: GenuineIntel  
  BIOS Vendor ID: Intel(R) Corporation  
  CPU family: 6  
  Model: 167  
  Model name: Intel(R) Xeon(R) E-2334 CPU @ 3.40GHz  
  BIOS Model name: Intel(R) Xeon(R) E-2334 CPU @ 3.40GHz

(Continued on next page)
ASUSTeK Computer Inc.
ASUS RS300-E11(P12R-M) Server System
(3.40 GHz, Intel Xeon E-2334)

CPU2017 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Test Date: Jan-2022
Tested by: ASUSTeK Computer Inc.
Hardware Availability: Oct-2021
Software Availability: Sep-2021

Platform Notes (Continued)

Stepping: 1
CPU MHz: 4620.265
CPU max MHz: 4800.000
CPU min MHz: 800.000
BogoMIPS: 6816.00
Virtualization: VT-x
L1d cache: 48K
L1i cache: 32K
L2 cache: 512K
L3 cache: 8192K
NUMA node0 CPU(s): 0-7
Flags: fpu vme de pse tsc msr pae mce 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 tsc_known_freq pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer xsave avx f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb ibpb ibrs ibrd stibp ibrs_enhanced tpr_shadow vnmi fmmuNTAX vmpreload ospcadpr cmpxchg cpuid_fault

/proc/cpuinfo cache data
  cache size: 8192 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
  node 0 size: 128711 MB
  node 0 free: 127031 MB
  node distances:
    node 0
    0: 10

From /proc/meminfo
  MemTotal: 131800452 KB
  HugePages_Total: 0
  Hugepagesize: 2048 KB

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

/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has
  performance

(Continued on next page)
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ASUSTeK Computer Inc.
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CPU2017 License: 9016
Test Sponsor: ASUSTeK Computer Inc.
Tested by: ASUSTeK Computer Inc.

SPECspeed®2017_int_base = 14.2
SPECspeed®2017_int_peak = 14.5

Test Date: Jan-2022
Hardware Availability: Oct-2021
Software Availability: Sep-2021

Platform Notes (Continued)

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 4.18.0-305.19.1.el8_4.x86_64 #1 SMP Tue Sep 7 07:07:31 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): Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2018-3639 (Speculative Store Bypass): Mitigation: usercopy/swapgs barriers and __user pointer sanitization
CVE-2017-5753 (Spectre variant 1): Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling
CVE-2017-5715 (Spectre variant 2): Not affected
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

run-level 3 Jan 19 10:14

SPEC is set to: /home/cpu118
Filesystem Type Size Used Avail Use% Mounted on
/dev/mapper/rhel-home xfs 807G 11G 797G 2% /home

From /sys/devices/virtual/dmi/id
Product Family: Server

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 (Continued on next page)
ASUSTeK Computer Inc.
ASUS RS300-E11(P12R-M) Server System
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SPECspec®2017_int_base = 14.2
SPECspec®2017_int_peak = 14.5

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

Platform Notes (Continued)
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:
4x Apacer Technology D33.27306S.003 32 GB 2 rank 3200, configured at 2933

BIOS:
BIOS Vendor: American Megatrends Inc.
BIOS Version: 0401
BIOS Date: 10/26/2021
BIOS Revision: 4.1

(End of data from sysinfo program)

Compiler Version Notes

==============================================================================
C | 600.perlbench_s(peak)
Intel(R) C Intel(R) 64 Compiler Classic for applications running on Intel(R) 64, Version 2021.1 Build 20201112_000000
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

==============================================================================
C | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak)
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

==============================================================================
C | 600.perlbench_s(peak)
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==============================================================================
C | 600.perlbench_s(base) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak) 657.xz_s(base, peak)
Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64, Version 2021.1 Build 20201113

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<td>Software Availability: Sep-2021</td>
</tr>
</tbody>
</table>

### Compiler Version Notes (Continued)

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```
==============================================================================
| C++     | 620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak)  |
|         | 631.deepsjeng_s(base, peak) 641.leela_s(base, peak)     |
```

Intel(R) oneAPI DPC++/C++ Compiler for applications running on Intel(R) 64,
Version 2021.1 Build 20201113

Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

```
==============================================================================
| Fortran | 648.exchange2_s(base, peak) |
```

Intel(R) Fortran Intel(R) 64 Compiler Classic for applications running on
Intel(R) 64, Version 2021.1 Build 20201112_000000

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### Base Compiler Invocation

**C benchmarks:**
- icx

**C++ benchmarks:**
- icpx

**Fortran benchmarks:**
- ifort

### 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
```
SPEC CPU®2017 Integer Speed Result
Copyright 2017-2022 Standard Performance Evaluation Corporation

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### Base Optimization Flags

**C benchmarks:**
-DSPEC_OPENMP -std=c11 -m64 -flopenmp -Wl,-z,muldefs -xCORE-AVX2
-03 -ffast-math -flto -mfpmath=sse -funroll-loops
-qopt-mem-layout-trans=4 -mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

**C++ benchmarks:**
-DSPEC_OPENMP -m64 -Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -flto
-mfpmath=sse -funroll-loops -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/opt/intel/oneapi/compiler/2021.1.1/linux/compiler/lib/intel64_lin/
-lqkmalloc

**Fortran benchmarks:**
-m64 -xCORE-AVX2 -O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte -auto
-mbranches-within-32B-boundaries

### Peak Compiler Invocation

**C benchmarks (except as noted below):**
icx
600.perlbench_s: icc

**C++ benchmarks:**
icpx

**Fortran benchmarks:**
ifort

### Peak Portability Flags

Same as Base Portability Flags

### Peak Optimization Flags

C benchmarks:

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

600.perlbench_s: -Wl,-z,muldefs -prof-gen(pass 1) -prof-use(pass 2)
-xCORE-AVX2 -ipo -O3 -no-prec-div
-qopt-mem-layout-trans=4 -fno-strict-overflow
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

602.gcc_s: -m64 -std=c11 -Wl,-z,muldefs -fprofile-generate(pass 1)
-fprofile-use=default.profdata(pass 2) -xCORE-AVX2 -flto
-Ofast(pass 1) -O3 -ffast-math -qopt-mem-layout-trans=4
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

605.mcf_s: basepeak = yes

625.x264_s: -DSPEC_OPENMP -fiopenmp -std=c11 -m64 -Wl,-z,muldefs
-xCORE-AVX2 -flto -O3 -ffast-math
-qopt-mem-layout-trans=4 -fno-alias
-mbranches-within-32B-boundaries
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

657.xz_s: basepeak = yes

C++ benchmarks:

620.omnetpp_s: basepeak = yes

623.xalancbmk_s: basepeak = yes

631.deepsjeng_s: basepeak = yes

641.leela_s: basepeak = yes

Fortran benchmarks:

648.exchange2_s: basepeak = yes

The flags files that were used to format this result can be browsed at
http://www.spec.org/cpu2017/flags/ASUSTekPlatform-Settings-p12-V1.2.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/ASUSTekPlatform-Settings-p12-V1.2.xml
http://www.spec.org/cpu2017/flags/Intel-ic2021-official-linux64_revA.xml
## SPEC CPU®2017 Integer Speed Result

### ASUSTeK Computer Inc.

ASUS RS300-E11(P12R-M) Server System  
(3.40 GHz, Intel Xeon E-2334)

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<td>SPECspeed®2017_int_peak</td>
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**Test Sponsor:** ASUSTeK Computer Inc.  
**Tested by:** ASUSTeK Computer Inc.

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

Tested with SPEC CPU®2017 v1.1.8 on 2022-01-19 17:05:39-0500.  
Report generated on 2022-03-02 16:35:20 by CPU2017 PDF formatter v6442.  
Originally published on 2022-03-01.