



# SPEC CPU®2017 Integer Speed Result

Copyright 2017-2021 Standard Performance Evaluation Corporation

## Fujitsu

PRIMERGY RX2540 M6, Intel Xeon Gold 6346,  
3.10GHz

SPECspeed®2017_int_base =	12.0
SPECspeed®2017_int_energy_base =	36.4
SPECspeed®2017_int_peak =	Not Run
SPECspeed®2017_int_energy_peak =	Not Run

CPU2017 License: 19

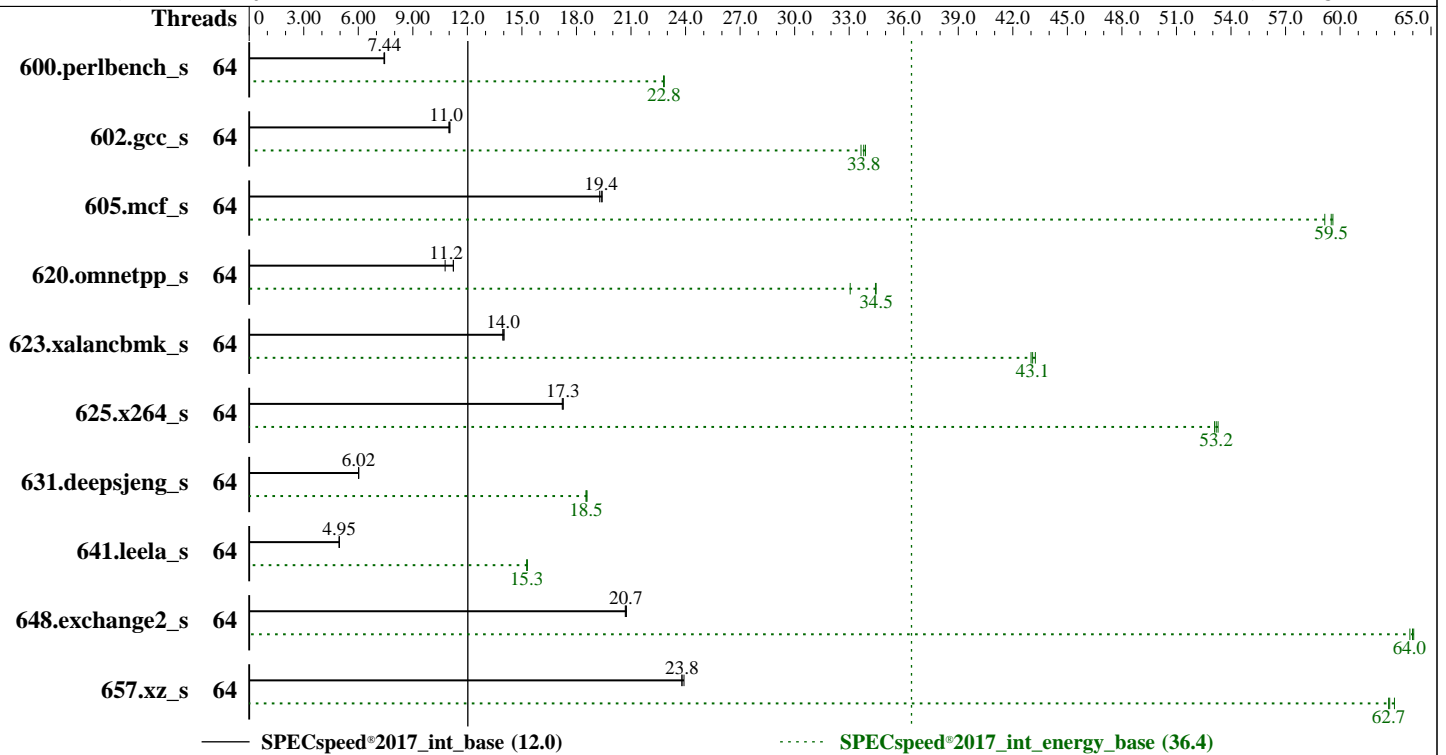
Test Sponsor: Fujitsu

Tested by: Fujitsu

Test Date: Apr-2021

Hardware Availability: May-2021

Software Availability: Aug-2020



### Hardware

CPU Name: Intel Xeon Gold 6346  
 Max MHz: 3600  
 Nominal: 3100  
 Enabled: 32 cores, 2 chips, 2 threads/core  
 Orderable: 1,2 chips  
 Cache L1: 32 KB I + 48 KB D on chip per core  
 L2: 1.25 MB I+D on chip per core  
 L3: 36 MB I+D on chip per chip  
 Other: None  
 Memory: 1 TB (32 x 32 GB 2Rx4 PC4-3200AA-R)  
 Storage: 1 x SATA M.2 SSD, 480GB  
 Other: None

### Software

OS: Red Hat Enterprise Linux release 8.2 (Ootpa) 4.18.0-193.el8.x86\_64  
 Compiler: C/C++: Version 19.1.2.275 of Intel C/C++ Compiler for Linux;  
 Fortran: Version 19.1.2.275 of Intel Fortran Compiler for Linux  
 Parallel: Yes  
 Firmware: Fujitsu BIOS Version V1.0.0.0 R1.4.0 for D3891-A1x. Released May-2021 tested as V1.0.0.0 R1.2.0 for D3891-A1x Apr-2021  
 File System: xfs  
 System State: Run level 3 (multi-user)  
 Base Pointers: 64-bit  
 Peak Pointers: Not Applicable  
 Other: jemalloc memory allocator V5.0.1  
 Power Management: BIOS set to balance power and performance

### Power

Max. Power (W): 636.4  
 Idle Power (W): 338.56  
 Min. Temperature (C): 27.44  
 Elevation (m): 11

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### Power (Continued)

Line Standard: 200 V / 50 Hz / 1 phase / 2 wires  
 Provisioning: Line-powered

#### Power Settings

Management FW: Version 3.20i for D3891-A1x of Fujitsu BMC  
 Firmware  
 Memory Mode: Normal

#### Power-Relevant Hardware

Power Supply: 1 x 900 W (non-redundant)  
 Details: Standard power supply part of base unit  
 S26113-E629-V50-1  
 Backplane: 24 x 2.5inch HDD back plan  
 Other Storage: Embedded SATA Controller  
 Storage Model #s: S26361-F5706  
 NICs Installed: 1 x Intel I350-T4 @ 1 Gb  
 NICs Enabled (FW/OS): 4 / 4  
 NICs Connected/Speed: 1 @ 1 Gb  
 Other HW Model #s: None

#### Power Analyzer

Power Analyzer: 10.26.120.153:8888  
 Hardware Vendor: Hioki  
 Model: Hioki PW3336:1-Channel  
 Serial Number: 170213562  
 Input Connection: USB via USB-Serial CH340  
 Metrology Institute: NICT  
 Calibration By: HIOKI E.E. CORPORATION  
 Calibration Label: H06400088  
 Calibration Date: 25-Jun-2020  
 PTDaemon® Version: 1.9.1 (a2d19f26; 2019-07-17)  
 Setup Description: Connected to PSU 1  
 Current Ranges Used: 5A  
 Voltage Range Used: 300V

#### Temperature Meter

Temperature Meter: 10.26.120.153:8889  
 Hardware Vendor: Digi International Inc.  
 Model: DigiWATCHPORT\_H  
 Serial Number: W 613 66209  
 Input Connection: USB  
 PTDaemon Version: 1.9.1 (a2d19f26; 2019-07-17)  
 Setup Description: 5 mm in front of SUT main air intake

### Base Results Table

Benchmark	Threads	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power	Seconds	Ratio	Energy (kJ)	Energy Ratio	Average Power	Maximum Power
600.perlbench_s	64	239	7.41	84.5	22.8	353	362	<b>238</b>	<b>7.44</b>	<b>84.4</b>	<b>22.8</b>	<b>354</b>	<b>364</b>	238	7.45	84.4	22.8	354	363
602.gcc_s	64	361	11.0	128	33.9	354	367	363	11.0	129	33.7	355	367	<b>361</b>	<b>11.0</b>	<b>128</b>	<b>33.8</b>	<b>354</b>	<b>365</b>
605.mcf_s	64	<b>244</b>	<b>19.4</b>	<b>86.5</b>	<b>59.5</b>	<b>355</b>	<b>365</b>	245	19.3	87.1	59.2	356	364	243	19.4	86.4	59.6	355	365
620.omnetpp_s	64	151	10.8	53.7	33.1	355	363	<b>145</b>	<b>11.2</b>	<b>51.5</b>	<b>34.5</b>	<b>354</b>	<b>364</b>	145	11.2	51.5	34.4	355	363
623.xalancbmk_s	64	102	13.9	35.8	43.0	352	361	101	14.0	35.6	43.2	352	360	<b>101</b>	<b>14.0</b>	<b>35.7</b>	<b>43.1</b>	<b>352</b>	<b>362</b>
625.x264_s	64	102	17.2	36.1	53.1	353	359	<b>102</b>	<b>17.3</b>	<b>36.1</b>	<b>53.2</b>	<b>353</b>	<b>362</b>	102	17.3	36.0	53.3	353	361
631.deepsjeng_s	64	<b>238</b>	<b>6.02</b>	<b>84.0</b>	<b>18.5</b>	<b>353</b>	<b>363</b>	238	6.01	84.0	18.5	353	365	238	6.03	83.8	18.6	353	363
641.leela_s	64	344	4.96	121	15.3	351	361	344	4.95	121	15.3	351	361	<b>344</b>	<b>4.95</b>	<b>121</b>	<b>15.3</b>	<b>351</b>	<b>361</b>
648.exchange2_s	64	142	20.7	50.1	63.8	353	360	<b>142</b>	<b>20.7</b>	<b>50.0</b>	<b>64.0</b>	<b>352</b>	<b>361</b>	142	20.7	49.9	64.0	352	362
657.xz_s	64	<b>260</b>	<b>23.8</b>	<b>107</b>	<b>62.7</b>	<b>414</b>	<b>636</b>	260	23.8	107	62.7	413	635	259	23.9	107	63.0	413	636

SPECspeed®2017\_int\_base = 12.0

SPECspeed®2017\_int\_energy\_base = 36.4

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



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**CPU2017 License:** 19  
**Test Sponsor:** Fujitsu  
**Tested by:** Fujitsu

**Test Date:** Apr-2021  
**Hardware Availability:** May-2021  
**Software Availability:** Aug-2020

## Operating System Notes

```
Stack size set to unlimited using "ulimit -s unlimited"
echo 1000 > /proc/sys/kernel/sched_migration_cost_ns
```

## Environment Variables Notes

```
Environment variables set by runcpu before the start of the run:
KMP_AFFINITY = "granularity=fine,scatter"
LD_LIBRARY_PATH =
    "/home/PVT/speccpu-1.1.5/lib/intel64:/home/PVT/speccpu-1.1.5/je5.0.1-64"
MALLOCONF = "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.
jemalloc, a general purpose malloc implementation
built with the RedHat Enterprise 7.5, and the system compiler gcc 4.8.5
sources available from jemalloc.net or https://github.com/jemalloc/jemalloc/releases
```

## Platform Notes

```
BIOS configuration:
CPU C1E Support = Disabled
UPI Link Frequency Select = 10.4 GT/s

Sysinfo program /home/PVT/speccpu-1.1.5/bin/sysinfo
Rev: r6538 of 2020-09-24 e8664e66d2d7080afeaa89d4b38e2f1c
running on localhost.localdomain Wed Apr 7 13:34:04 2021

SUT (System Under Test) info as seen by some common utilities.
For more information on this section, see
```

(Continued on next page)



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### Platform Notes (Continued)

<https://www.spec.org/cpu2017/Docs/config.html#sysinfo>

From /proc/cpuinfo

model name : Intel(R) Xeon(R) Gold 6346 CPU @ 3.10GHz

2 "physical id"s (chips)

64 "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 : 16

siblings : 32

physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

From lscpu:

Architecture: x86\_64

CPU op-mode(s): 32-bit, 64-bit

Byte Order: Little Endian

CPU(s): 64

On-line CPU(s) list: 0-63

Thread(s) per core: 2

Core(s) per socket: 16

Socket(s): 2

NUMA node(s): 2

Vendor ID: GenuineIntel

CPU family: 6

Model: 106

Model name: Intel(R) Xeon(R) Gold 6346 CPU @ 3.10GHz

Stepping: 6

CPU MHz: 1154.028

CPU max MHz: 3600.0000

CPU min MHz: 800.0000

BogoMIPS: 6200.00

Virtualization: VT-x

L1d cache: 48K

L1i cache: 32K

L2 cache: 1280K

L3 cache: 36864K

NUMA node0 CPU(s): 0-15,32-47

NUMA node1 CPU(s): 16-31,48-63

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

aperfperf 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 tsc\_deadline\_timer aes xsave

avx fl16c rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb cat\_l3 invpcid\_single ssbd

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### Platform Notes (Continued)

```
mba ibrs ibpb stibp ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid fsgsbase
tsc_adjust bmlil hle avx2 smep bmi2 erms invpcid rtm cqm rdt_a avx512f avx512dq
rdseed adx smap avx512ifma clflushopt clwb intel_pt avx512cd sha_ni avx512bw
avx512vl xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total
cqm_mbm_local wbnoinvd dtherm ida arat pln pts hwp hwp_act_window hwp_epp
hwp_pkg_req avx512vbmi umip pku ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni
avx512_bitalg tme avx512_vpopcntdq la57 rdpid md_clear pconfig flush_lld
arch_capabilities
```

```
/proc/cpuinfo cache data
cache size : 36864 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 32 33 34 35 36 37 38 39 40 41 42 43
44 45 46 47
node 0 size: 515509 MB
node 0 free: 514829 MB
node 1 cpus: 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 48 49 50 51 52 53 54 55 56
57 58 59 60 61 62 63
node 1 size: 516058 MB
node 1 free: 515040 MB
node distances:
node 0 1
0: 10 20
1: 20 10
```

```
From /proc/meminfo
MemTotal: 1056325748 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
```

```
From /etc/*release* /etc/*version*
os-release:
NAME="Red Hat Enterprise Linux"
VERSION="8.2 (Ootpa)"
ID="rhel"
ID_LIKE="fedora"
```

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### Platform Notes (Continued)

```

VERSION_ID="8.2"
PLATFORM_ID="platform:el8"
PRETTY_NAME="Red Hat Enterprise Linux 8.2 (Ootpa)"
ANSI_COLOR="0;31"

```

```

redhat-release: Red Hat Enterprise Linux release 8.2 (Ootpa)
system-release: Red Hat Enterprise Linux release 8.2 (Ootpa)
system-release-cpe: cpe:/o:redhat:enterprise_linux:8.2:ga

```

uname -a:

```

Linux localhost.localdomain 4.18.0-193.el8.x86_64 #1 SMP Fri Mar 27 14:35:58 UTC 2020
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/swapgs 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):	No status reported
CVE-2019-11135 (TSX Asynchronous Abort):	Not affected

SPEC is set to: /home/PVT/speccpu-1.1.5

```

Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sda3       xfs   330G  88G  243G  27% /home

```

From /sys/devices/virtual/dmi/id

```

Vendor:      FUJITSU
Product:     PRIMERGY RX2540 M6
Product Family:  SERVER
Serial:      EWAAxxxxxx

```

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.

Memory:

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### Platform Notes (Continued)

32x Samsung M393A4K40DB3-CWE 32 GB 2 rank 3200

#### BIOS:

BIOS Vendor: FUJITSU  
 BIOS Version: V1.0.0.0 R1.2.0 for D3891-A1x  
 BIOS Date: 04/01/2021  
 BIOS Revision: 1.2  
 Firmware Revision: 3.20

(End of data from sysinfo program)

### Power Settings Notes

PTDaemon to measure power and temperature was run on a PRIMERGY RX2530 M5 as a controller with 2x Intel Xeon Platinum 8280 CPU and 768 GB of memory using Windows Server 2012 R2. Power management in the BIOS was default except for any settings mentioned in BIOS Configuration. No power management settings were set in the management firmware. The optional optical drive was not installed. The run was started and observed through the management firmware.

### Compiler Version Notes

```
=====
C          | 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base)
          | 625.x264_s(base) 657.xz_s(base)
=====
```

```
Intel(R) C Compiler for applications running on Intel(R) 64, Version
19.1.2.275 Build 20200604
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
=====
```

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

```
Intel(R) C++ Compiler for applications running on Intel(R) 64, Version
19.1.2.275 Build 20200604
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.
=====
```

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

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## Compiler Version Notes (Continued)

Intel(R) Fortran Intel(R) 64 Compiler for applications running on Intel(R)  
64, Version 19.1.2.275 Build 20200623  
Copyright (C) 1985-2020 Intel Corporation. All rights reserved.

-----

## Base Compiler Invocation

C benchmarks:

icc

C++ benchmarks:

icpc

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

## Base Optimization Flags

C benchmarks:

-m64 -qnextgen -std=c11  
-Wl,-plugin-opt=-x86-branches-within-32B-boundaries -Wl,-z,muldefs  
-xCORE-AVX2 -O3 -ffast-math -flto -mfpmath=sse -funroll-loops  
-qopt-mem-layout-trans=4 -fopenmp -DSPEC\_OPENMP  
-L/usr/local/jemalloc64-5.0.1/lib -ljemalloc

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## Base Optimization Flags (Continued)

C++ benchmarks:

```
-m64 -qnextgen -Wl,-plugin-opt=-x86-branches-within-32B-boundaries
-Wl,-z,muldefs -xCORE-AVX2 -O3 -ffast-math -flto -mfpmath=sse
-funroll-loops -qopt-mem-layout-trans=4
-L/usr/local/IntelCompiler19/compilers_and_libraries_2020.3.275/linux/compiler/lib/intel64_lin
-lqkmalloc
```

Fortran benchmarks:

```
-m64 -Wl,-plugin-opt=-x86-branches-within-32B-boundaries -xCORE-AVX2
-O3 -ipo -no-prec-div -qopt-mem-layout-trans=4
-nostandard-realloc-lhs -align array32byte
-mbranches-within-32B-boundaries
```

The flags files that were used to format this result can be browsed at

<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-ICL-RevA.html>

[http://www.spec.org/cpu2017/flags/Intel-ic19.1ul-official-linux64\\_revA.html](http://www.spec.org/cpu2017/flags/Intel-ic19.1ul-official-linux64_revA.html)

You can also download the XML flags sources by saving the following links:

<http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-ICL-RevA.xml>

[http://www.spec.org/cpu2017/flags/Intel-ic19.1ul-official-linux64\\_revA.xml](http://www.spec.org/cpu2017/flags/Intel-ic19.1ul-official-linux64_revA.xml)

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For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

Tested with SPEC CPU®2017 v1.1.5 on 2021-04-07 13:34:04-0400.

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