

# SPEC® CPU2017 Integer Speed Result

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My Corporation

SPECspeed2017\_int\_base = 7.36

SPECspeed2017\_int\_peak = Not Run

CPU2017 License: 13

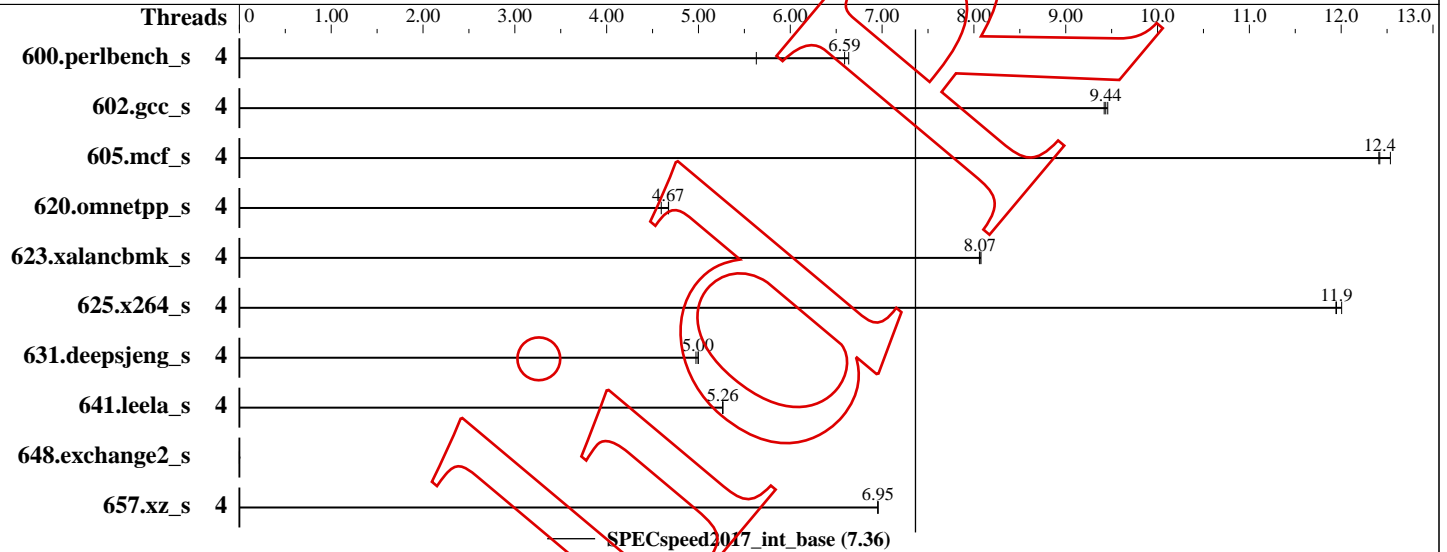
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Apr-2020

Hardware Availability:

Software Availability:



## Hardware

CPU Name: Genuine Intel 0000  
Max MHz.:  
Nominal:  
Enabled: cores, 1 chip, threads/core  
Orderable:  
Cache L1:  
L2:  
L3:  
Other:  
Memory: 15.431 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Storage: 391 GB add more disk info here  
Other:

## Software

OS: Fedora release 31 (Thirty One)  
5.5.0-cet+  
Compiler: C/C++: Version 17.0.1.132 of Intel C/C++  
Compiler for Linux;  
Fortran: Version 17.0.1.132 of Intel Fortran  
Compiler for Linux  
Parallel: Yes  
Firmware: --  
File System: ext4  
System State: Run level 3 (add definition here)  
Base Pointers: 64-bit  
Peak Pointers: Not Applicable  
Other: --

## Errors

'reportable' flag not set during run  
648.exchange2\_s (base) did not have enough runs!  
648.exchange2\_s (base) had invalid runs!  
Run of 648.exchange2\_s (base) was not valid; status is CE  
Unknown flags were used! See  
<https://www.spec.org/cpu2017/Docs/runcpu.html#flagsurl>  
for information about how to get rid of this error.

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## Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	4	315	5.63	267	6.64	<b>269</b>	<b>6.59</b>							
602.gcc_s	4	423	9.42	421	9.46	<b>422</b>	<b>9.44</b>							
605.mcf_s	4	377	12.5	380	12.4	<b>380</b>	<b>12.4</b>							
620.omnetpp_s	4	355	4.59	<b>349</b>	<b>4.67</b>	349	4.67							
623.xalancbmk_s	4	<b>176</b>	<b>8.07</b>	175	8.08	176	8.06							
625.x264_s	4	147	12.0	<b>148</b>	<b>11.9</b>	148	11.9							
631.deepsjeng_s	4	288	4.97	<b>287</b>	<b>5.00</b>	287	5.00							
641.leela_s	4	<b>324</b>	<b>5.26</b>	324	5.26	324	5.26							
648.exchange2_s	1	0.00	0.00											
657.xz_s	4	<b>889</b>	<b>6.95</b>	889	6.96	889	6.95							

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

## General Notes

Environment variables set by runcpu before the start of the run:

LD\_LIBRARY\_PATH = "/opt/intel/compilers\_and\_libraries\_2017/linux/lib/intel64"

OMP\_STACKSIZE = "192M"

## Platform Notes

Sysinfo program /home/rishita/spec2017/bin/sysinfo  
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f  
running on tigerlakes-ravi Thu Apr 16 20:51:02 2020

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 : Genuine Intel(R) CPU 0000 @ 2.30GHz

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:

Architecture:

x86\_64

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## Platform Notes (Continued)

CPU op-mode(s): 32-bit, 64-bit  
Byte Order: Little Endian  
Address sizes: 39 bits physical, 48 bits virtual  
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  
CPU family: 6  
Model: 140  
Model name: Genuine Intel(R) CPU 0000 @ 2.30GHz  
Stepping: 0  
CPU MHz: 3901.330  
CPU max MHz: 4200.0000  
CPU min MHz: 400.0000  
BogoMIPS: 4608.00  
Virtualization: VT-x  
L1d cache: 192 KiB  
L1i cache: 128 KiB  
L2 cache: 5 MiB  
L3 cache: 12 MiB  
NUMA node0 CPU(s): 0-7  
Vulnerability Itlb multihit: KVM: Mitigation: Split huge pages  
Vulnerability L1tf: Not affected  
Vulnerability Mds: Vulnerable: Clear CPU buffers attempted, no microcode; SMT vulnerable  
Vulnerability Meltdown: Not affected  
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp  
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation; Enhanced IBRS, IBPB conditional, RSB filling  
Vulnerability Tsx async abort: Not affected  
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 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 aes xsave avx f16c rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb invpcid\_single ssbd ibrs ibpb stibp ibrs\_enhanced tpr\_shadow vnmi flexpriority ept vpid ept\_ad fsgsbase tsc\_adjust bmi1 avx2 smep bmi2 erms invpcid avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb intel\_pt avx512cd sha\_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp\_notify hwp\_act\_window hwp\_epp hwp\_pkg\_req avx512vbmi umip pku ospke avx512\_vbmi2

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## Platform Notes (Continued)

shstk gfni vaes vpclmulqdq avx512\_vnni avx512\_bitqld tme avx512\_vpopcntdq rdpid  
movdiri movdir64b avx512\_vp2intersect ibt flush\_lld arch\_capabilities

/proc/cpuinfo cache data  
cache size : 12288 KB

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

From /proc/meminfo

MemTotal: 16180852 kB

HugePages\_Total: 0

Hugepagesize: 2048 kB

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

fedora-release: Fedora release 31 (Thirty One)

os-release:

NAME=Fedora

VERSION="31 (Workstation Edition)"

ID=fedora

VERSION\_ID=31

VERSION\_CODENAME=""

PLATFORM\_ID="platform:f31"

PRETTY\_NAME="Fedora 31 (Workstation Edition)"

ANSI\_COLOR="0;34"

redhat-release: Fedora release 31 (Thirty One)

system-release: Fedora release 31 (Thirty One)

system-release-cpe: cpe:/o:fedoraproject:fedora:31

uname -a

Linux tigerlake1-ravi 5.5.0-cet+ #2 SMP Tue Feb 4 10:34:12 PST 2020 x86\_64 x86\_64

x86\_64 GNU/Linux

run-level 3 Mar 10 17:08

SPEC is set to: /home/rlsahita/spec2017

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
------------	------	------	------	-------	------	------------

/dev/mapper/fedora_localhost--live-home	ext4	391G	63G	309G	17%	/home
---	------	------	-----	------	-----	-------

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.

(End of data from sysinfo program)

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## Compiler Version Notes

=====  
CC 600.perlbench\_s(base) 602.gcc\_s(base) 605.mcf\_s(base) 625.x264\_s(base)  
657.xz\_s(base)  
=====

icc (ICC) 19.1.1.219 20200306

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=====  
CXXC 620.omnetpp\_s(base) 623.xalancbmk\_s(base) 631.deepsjeng\_s(base)  
641.leela\_s(base)  
=====

icpc (ICC) 19.1.1.219 20200306

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## Base Unknown Flags

600.perlbench\_s: "-fcf-protection=fullARRAY(0x8bb8c50)  
"-fcf-protection=fullARRAY(0x8bbdef8)

602.gcc\_s: "-fcf-protection=fullARRAY(0x8bc47e8)  
"-fcf-protection=fullARRAY(0x8bbdf28)

605.mcf\_s: "-fcf-protection=fullARRAY(0x8bb8e30)  
"-fcf-protection=fullARRAY(0x8bc1230)

625.x264\_s: "-fcf-protection=fullARRAY(0x8bc42c0)  
"-fcf-protection=fullARRAY(0x8ce6a18)

657.xz\_s: "-fcf-protection=fullARRAY(0x8bc4710)  
"-fcf-protection=fullARRAY(0x8c539b8)

## Base Compiler Invocation

C benchmarks:

icc -m64 -std=c11

C++ benchmarks:

icpc -m64

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## 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  
657.xz\_s: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

-static -xHOST -ipo -O3 -no-prec-div -auto-p32 -qopt-prefetch  
-qopenmp -DSPEC\_OPENMP

C++ benchmarks:

-xHOST -ipo -O3 -no-prec-div -auto-p32 -qopt-prefetch

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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 CPU2017 v1.0.2 on 2020-04-16 20:51:02-0700.

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