SPEC® CPU2017 Integer Speed Result

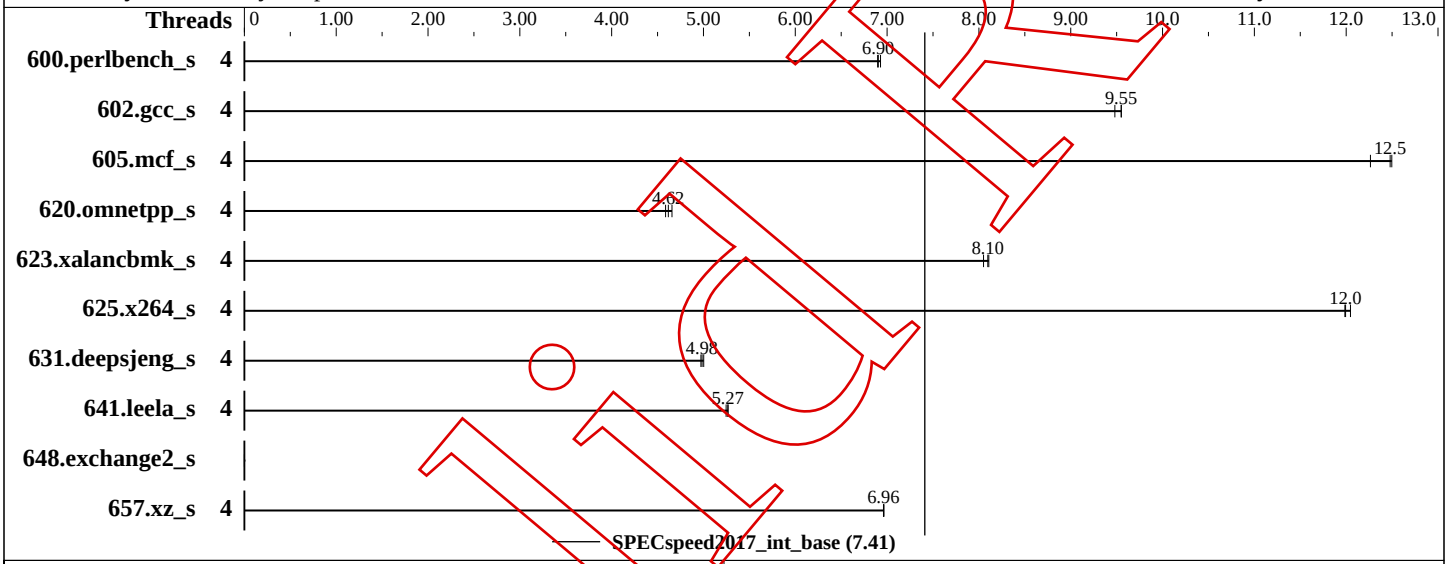
My Corporation

SPECspeed2017_int_base = 7.41

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

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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	**257**	**6.90**	257	6.90	256	6.93							
602.gcc_s	4	420	9.48	417	9.55	**417**	**9.55**							
605.mcf_s	4	**378**	**12.5**	378	12.5	385	12.3							
620.omnetpp_s	4	356	4.59	350	4.66	**353**	**4.62**							
623.xalancbmk_s	4	176	8.05	175	8.11	**175**	**8.10**							
625.x264_s	4	146	12.0	**147**	**12.0**	147	12.0							
631.deepsjeng_s	4	288	4.97	286	5.00	**287**	**4.98**							
641.leela_s	4	325	5.25	**324**	**5.27**	324	5.27							
648.exchange2_s	1	0.00	0.00											
657.xz_s	4	888	6.96	887	6.97	**888**	**6.96**							

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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/rlsahita/spec2017/bin/sysinfo
 Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
 running on tigerlake1-ravi Fri Apr 17 03:13:23 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
```

(Continued on next page)

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:                         2057.048
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 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 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
```


(Continued on next page)

Platform Notes (Continued)

```
      shstk gfni vaes vpclmulqdq avx512_vnni avx512_bitalg tme avx512_vpopcntdq rdpid
      movdiri movdir64b avx512_vp2intersect ibt flush_l1d 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   56G  315G  15% /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)
```

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

==============================================================================
 CXXC 620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)
     641.leela_s(base)
------------------------------------------------------------------------------
icpc (ICC) 19.1.1.219 20200306
Copyright (C) 1985-2020 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
`icc -m64 -std=c11`

C++ benchmarks:
`icpc -m64`

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`

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Base Optimization Flags (Continued)

C++ benchmarks:
`-xHOST -ipo -O3 -no-prec-div -auto-p32 -qopt-prefetch`

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

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