SPEC® CPU2017 Integer Speed Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

My Corporation

SPECspeed2017_int_base = 4.79

SPECspeed2017_int_peak = Not Run

CPU2017 License: 13	**Test Date:** Apr-2020
Test Sponsor: My Corporation	**Hardware Availability:**
Tested by: My Corporation	**Software Availability:**

Threads

Benchmark	Threads
600.perlbench_s	4
602.gcc_s	
605.mcf_s	
620.omnetpp_s	
623.xalancbmk_s	
625.x264_s	
631.deepsjeng_s	
641.leela_s	
648.exchange2_s	
657.xz_s	

4.79

SPECspeed2017_int_base (4.79)

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
620.omnetpp_s (base) did not have enough runs!
641.leela_s (base) did not have enough runs!
625.x264_s (base) did not have enough runs!
648.exchange2_s (base) did not have enough runs!
657.xz_s (base) did not have enough runs!
605.mcf_s (base) did not have enough runs!
631.deepsjeng_s (base) did not have enough runs!
623.xalancbmk_s (base) did not have enough runs!
602.gcc_s (base) did not have enough runs!
600.perlbench_s (base) had invalid runs!

(Continued on next page)

SPEC CPU2017 Integer Speed Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

My Corporation

SPECspeed2017_int_base = 4.79

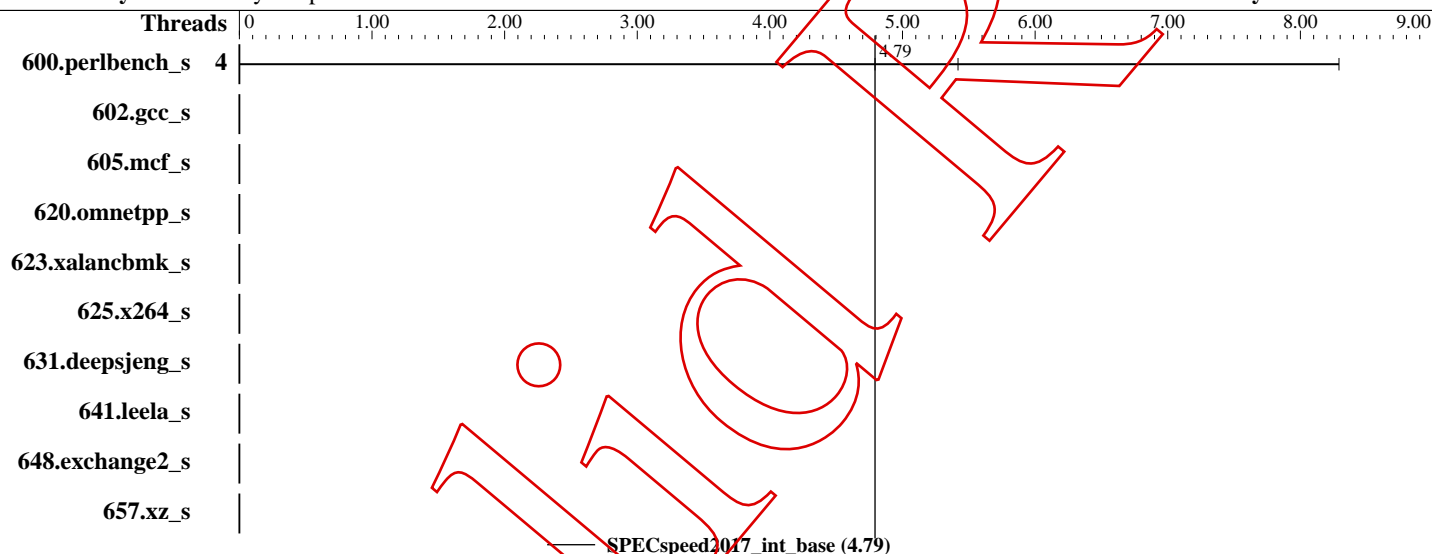SPECspeed2017_int_peak = Not Run

CPU2017 License: 13
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Apr-2020
Hardware Availability:
Software Availability:

Errors (Continued)

Run of 600.perlbench_s (base) was not valid; status is RE
Unknown flags were used! See
   https://www.spec.org/cpu2017/Docs/runcpu.html#flagsurl
for information about how to get rid of this error.

Results Table

Benchmark	Base						Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	4	214	0.00	**370**	**4.79**	328	5.42							
602.gcc_s														
605.mcf_s														
620.omnetpp_s														
623.xalancbmk_s														
625.x264_s														
631.deepsjeng_s														
641.leela_s														
648.exchange2_s														
657.xz_s														
SPECspeed2017_int_base =			4.79											
SPECspeed2017_int_peak =			Not Run											

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 Thu Apr 16 20:46:04 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)
```

(Continued on next page)

Standard Performance Evaluation Corporation (info@spec.org)
https://www.spec.org/

My Corporation

SPECspeed2017_int_base = 4.79

SPECspeed2017_int_peak = Not Run

CPU2017 License: 13		**Test Date:**	Apr-2020
Test Sponsor:	My Corporation	**Hardware Availability:**	
Tested by:	My Corporation	**Software Availability:**	

Platform Notes (Continued)

```
     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
     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:                 1853.560
     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
```

(Continued on next page)

My Corporation

SPECspeed2017_int_base = 4.79

SPECspeed2017_int_peak = Not Run

CPU2017 License: 13		**Test Date:**	Apr-2020
Test Sponsor:	My Corporation	**Hardware Availability:**	
Tested by:	My Corporation	**Software Availability:**	

Platform Notes (Continued)

```
    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
    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   63G  309G  17% /home
```

(Continued on next page)

SPEC CPU2017 Integer Speed Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

My Corporation

SPECspeed2017_int_base =   4.79

SPECspeed2017_int_peak = Not Run

CPU2017 License: 13
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Apr-2020
Hardware Availability:
Software Availability:

Platform Notes (Continued)

```
 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)
------------------------------------------------------------------------------
icc (ICC) 19.1.1.219 20200306
Copyright (C) 1985-2020 Intel Corporation.  All rights reserved.
------------------------------------------------------------------------------
```

Base Unknown Flags

```
600.perlbench_s: "-fcf-protection=fullARRAY(0x8b62a00)
"-fcf-protection=fullARRAY(0x8b34298)
```

Base Runtime Environment

C benchmarks:

600.perlbench_s: No flags used

Base Compiler Invocation

C benchmarks:

600.perlbench_s: icc -m64 -std=c11

Base Portability Flags

600.perlbench_s: -DSPEC_LP64 -DSPEC_LINUX_X64

SPEC CPU2017 Integer Speed Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

My Corporation

SPECspeed2017_int_base =   4.79

SPECspeed2017_int_peak = Not Run

CPU2017 License: 13

Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Apr-2020

Hardware Availability:

Software Availability:

Base Optimization Flags

C benchmarks:

```
600.perlbench_s: -static -xHOST -ipo -O3 -no-prec-div -auto-p32
-qopt-prefetch -qopenmp -DSPEC_OPENMP
```

Base Other Flags

C benchmarks:

```
600.perlbench_s: No flags used
```

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

Tested with SPEC CPU2017 v1.0.2 on 2020-04-16 20:46:04-0700.

Report generated on 2020-04-16 21:02:12 by CPU2017 PDF formatter v5748.