SPEC® CPU2017 Floating Point Speed Result

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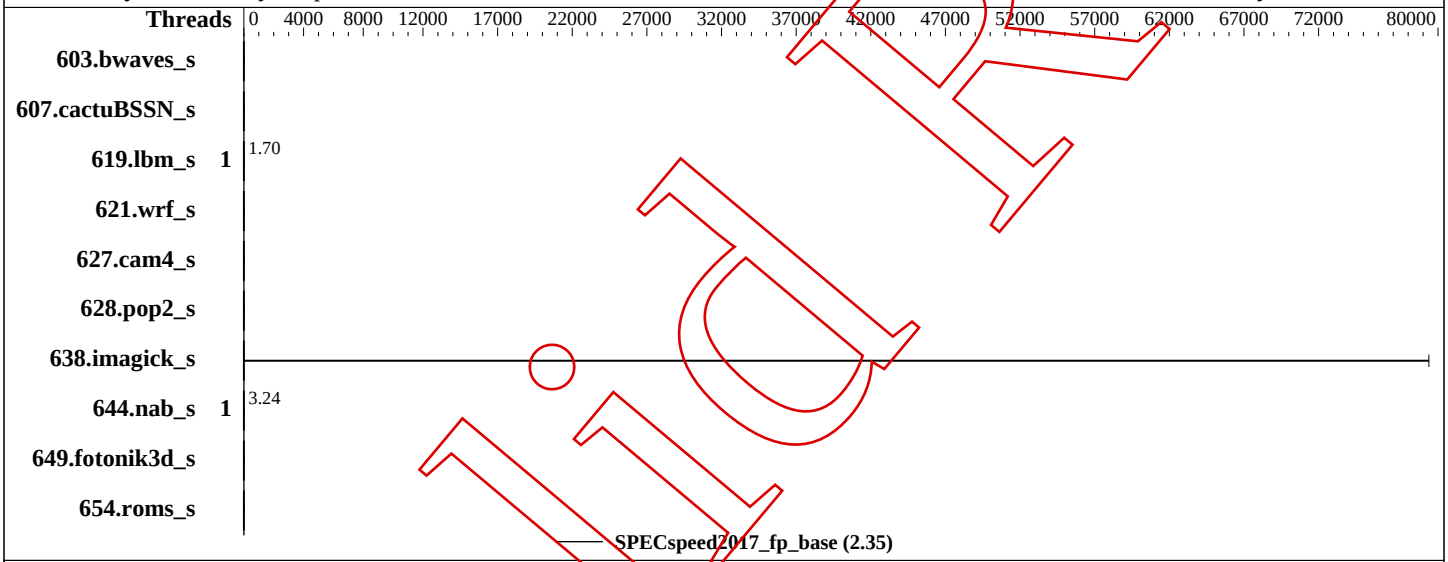
My Corporation

SPECspeed2017_fp_base = 2.35

SPECspeed2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Dec-2018
Hardware Availability:
Software Availability:



Hardware

CPU Name: Intel Core (Haswell, no TSX)
Max MHz.:
Nominal:
Enabled: cores, 22 chips, threads/core
Orderable:
Cache L1:
L2:
L3:
Other:
Memory: 98.349 GB fixme: If using DDR3, format is: 'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Storage: 196 GB add more disk info here
Other:

Software

OS: Linux Mint 19 Tara
4.15.0-20-generic
Compiler: C/C++/Fortran: Version 6.2.0 of GCC, the GNU Compiler Collection
Parallel: Yes
Firmware:
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:

Errors

'reportable' flag not set during run
649.fotonik3d_s (base) did not have enough runs!
619.lbm_s (base) did not have enough runs!
621.wrf_s (base) did not have enough runs!
603.bwaves_s (base) did not have enough runs!
607.cactuBSSN_s (base) did not have enough runs!
627.cam4_s (base) did not have enough runs!
654.roms_s (base) did not have enough runs!
638.imagick_s (base) did not have enough runs!
644.nab_s (base) did not have enough runs!
628.pop2_s (base) did not have enough runs!

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Invalid RUN

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Errors (Continued)

649.fotonik3d_s (base) had invalid runs!
621.wrf_s (base) had invalid runs!
603.bwaves_s (base) had invalid runs!
607.cactuBSSN_s (base) had invalid runs!
627.cam4_s (base) had invalid runs!
654.roms_s (base) had invalid runs!
638.imagick_s (base) had invalid runs!
628.pop2_s (base) had invalid runs!
Run of 603.bwaves_s (base) was not valid; status is CE
Run of 607.cactuBSSN_s (base) was not valid; status is CE
Run of 621.wrf_s (base) was not valid; status is CE
Run of 627.cam4_s (base) was not valid; status is CE
Run of 628.pop2_s (base) was not valid; status is CE
Run of 638.imagick_s (base) was not valid; status is RE
Run of 649.fotonik3d_s (base) was not valid; status is CE
Run of 654.roms_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.

Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s	1	0.00	0.00											
607.cactuBSSN_s	1	0.00	0.00											
619.lbm_s	1	**3079**	**1.70**											
621.wrf_s	1	0.00	0.00											
627.cam4_s	1	0.00	0.00											
628.pop2_s	1	0.00	0.00											
638.imagick_s	1	0.182	0.00											
644.nab_s	1	**5387**	**3.24**											
649.fotonik3d_s	1	0.00	0.00											
654.roms_s	1	0.00	0.00											

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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 = "/usr/lib64/:/usr/lib/:/lib64"
```

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General Notes (Continued)

```
OMP_STACKSIZE = "120M"
```

Platform Notes

```
 Sysinfo program /home/zet/code/cpu2017/bin/sysinfo
 Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
 running on zet-build2 Fri Dec 14 09:28:35 2018

 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 Core Processor (Haswell, no TSX)
       22  "physical id"s (chips)
       22 "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 : 1
       siblings  : 1
       physical 0: cores 0
       physical 1: cores 0
       physical 2: cores 0
       physical 3: cores 0
       physical 4: cores 0
       physical 5: cores 0
       physical 6: cores 0
       physical 7: cores 0
       physical 8: cores 0
       physical 9: cores 0
       physical 10: cores 0
       physical 11: cores 0
       physical 12: cores 0
       physical 13: cores 0
       physical 14: cores 0
       physical 15: cores 0
       physical 16: cores 0
       physical 17: cores 0
       physical 18: cores 0
       physical 19: cores 0
       physical 20: cores 0
       physical 21: cores 0

 From lscpu:
      Architecture:        x86_64
```

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Invalid RUN

Platform Notes (Continued)

```
      CPU op-mode(s):      32-bit, 64-bit
      Byte Order:          Little Endian
      CPU(s):              22
      On-line CPU(s) list: 0-21
      Thread(s) per core:  1
      Core(s) per socket:  1
      Socket(s):           22
      NUMA node(s):        1
      Vendor ID:           GenuineIntel
      CPU family:          6
      Model:               60
      Model name:          Intel Core Processor (Haswell, no TSX)
      Stepping:            1
      CPU MHz:             2399.996
      BogoMIPS:            4799.99
      Virtualization:      VT-x
      Hypervisor vendor:   KVM
      Virtualization type: full
      L1d cache:           32K
      L1i cache:           32K
      L2 cache:            4096K
      L3 cache:            16384K
      NUMA node0 CPU(s):   0-21
      Flags:               fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
      pat pse36 clflush mmx fxsr sse sse2 ss syscall nx pdpe1gb rdtscp lm constant_tsc
      rep_good nopl xtopology cpuid pni pclmulqdq vmx ssse3 fma cx16 pcid sse4_1 sse4_2
      x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c rdrand hypervisor lahf_lm
      abm invpcid_single pti tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust
      bmi1 avx2 smep bmi2 erms invpcid xsaveopt arat

  /proc/cpuinfo cache data
     cache size : 16384 KB

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

  From /proc/meminfo
     MemTotal:       103126208 kB
     HugePages_Total:       0
     Hugepagesize:       2048 kB

  /usr/bin/lsb_release -d
     Linux Mint 19 Tara

  From /etc/*release* /etc/*version*
     debian_version: buster/sid
     os-release:
```


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Invalid RUN

Platform Notes (Continued)

```
       NAME="Linux Mint"
       VERSION="19 (Tara)"
       ID=linuxmint
       ID_LIKE=ubuntu
       PRETTY_NAME="Linux Mint 19"
       VERSION_ID="19"
       HOME_URL="https://www.linuxmint.com/"
       SUPPORT_URL="https://forums.ubuntu.com/"

 uname -a:
    Linux zet-build2 4.15.0-20-generic #21-Ubuntu SMP Tue Apr 24 06:16:15 UTC 2018 x86_64
    x86_64 x86_64 GNU/Linux

 run-level 5 Dec 13 05:45

 SPEC is set to: /home/zet/code/cpu2017
    Filesystem     Type  Size  Used Avail Use% Mounted on
    /dev/sda1      ext4  196G   35G  152G  19% /

 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  619.lbm_s(base) 638.imagick_s(base) 644.nab_s(base)
------------------------------------------------------------------------------
 Using built-in specs.
 COLLECT_GCC=/usr/bin/gcc
 COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/4.8/lto-wrapper
 Target: x86_64-linux-gnu
 Configured with: ../src/configure -v --with-pkgversion='Ubuntu
   4.8.5-4ubuntu8' --with-bugurl=file:///usr/share/doc/gcc-4.8/README.Bugs
   --enable-languages=c,c++,go,d,fortran,objc,obj-c++ --prefix=/usr
   --program-suffix=-4.8 --enable-shared --enable-linker-build-id
   --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix
   --with-gxx-include-dir=/usr/include/c++/4.8 --libdir=/usr/lib --enable-nls
   --with-sysroot=/ --enable-clocale=gnu --enable-libstdcxx-debug
   --enable-libstdcxx-time=yes --enable-gnu-unique-object --disable-libmudflap
   --enable-plugin --with-system-zlib --enable-objc-gc --enable-multiarch
   --disable-werror --with-arch-32=i686 --with-abi=m64
   --with-multilib-list=m32,m64,mx32 --with-tune=generic
```

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Invalid Run

Compiler Version Notes (Continued)

```
  --enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
  --target=x86_64-linux-gnu
Thread model: posix
gcc version 4.8.5 (Ubuntu 4.8.5-4ubuntu8)
------------------------------------------------------------------------------
```

Base Unknown Flags

619.lbm_s: "-fplugin-arg-rap_plugin-opt
-fplugin-arg-rap_plugin-hl_cfiARRAY(0x7ffc8c8)

638.imagick_s: "-fplugin-arg-rap_plugin-opt
-fplugin-arg-rap_plugin-hl_cfiARRAY(0x7fdff70)

644.nab_s: "-fplugin-arg-rap_plugin-opt
-fplugin-arg-rap_plugin-hl_cfiARRAY(0x7fd2738)

Base Compiler Invocation

C benchmarks:
gcc

Base Portability Flags

619.lbm_s: -DSPEC_LP64
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-m64 -std=c99 -g -O2 -march=native
-fplugin=/home/zet/code/hl_cfi/src/rap_plugin/rap_plugin.so -fopenmp
-DSPEC_OPENMP

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