SPEC® CPU2017 Floating Point Speed Result

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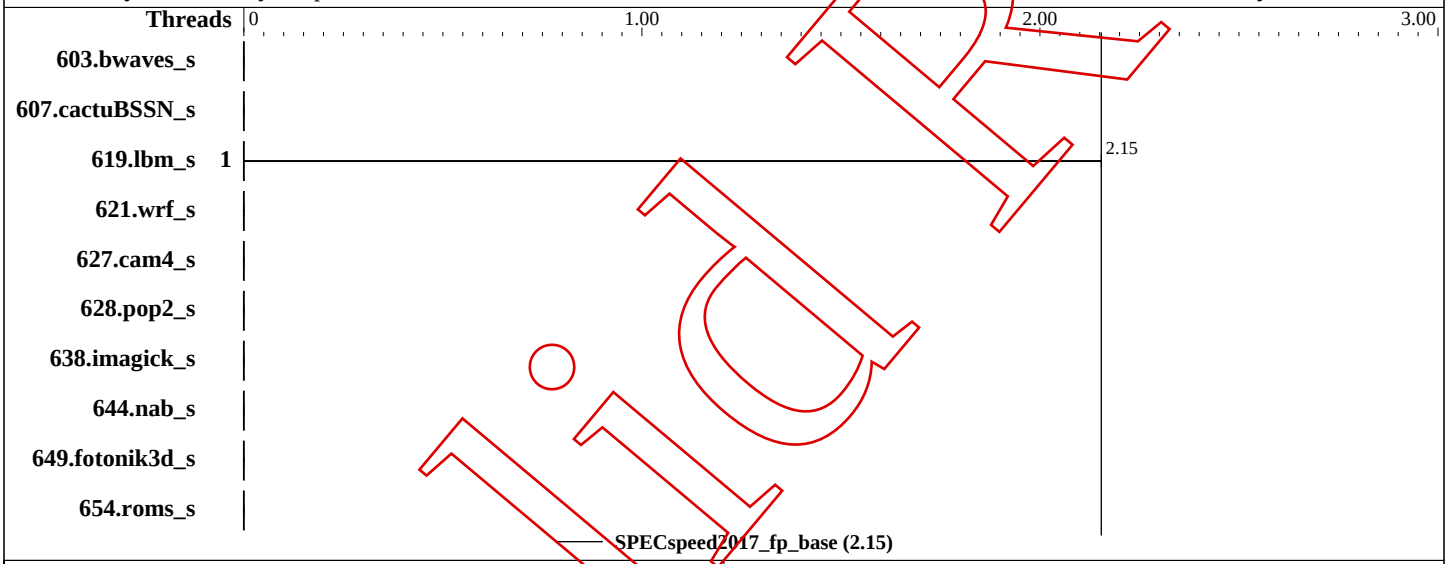
My Corporation

SPECspeed2017_fp_base = 2.15

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
628.pop2_s (base) did not have enough runs!
627.cam4_s (base) did not have enough runs!
619.lbm_s (base) did not have enough runs!
644.nab_s (base) did not have enough runs!
638.imagick_s (base) did not have enough runs!
654.roms_s (base) did not have enough runs!
621.wrf_s (base) did not have enough runs!
649.fotonik3d_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!

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Invalid RUN

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Invalid RUN

Errors (Continued)

628.pop2_s (base) had invalid runs!
627.cam4_s (base) had invalid runs!
644.nab_s (base) had invalid runs!
638.imagick_s (base) had invalid runs!
654.roms_s (base) had invalid runs!
621.wrf_s (base) had invalid runs!
649.fotonik3d_s (base) had invalid runs!
603.bwaves_s (base) had invalid runs!
607.cactuBSSN_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 CE
Run of 644.nab_s (base) was not valid; status is CE
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	**2432**	**2.15**											
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	0.00	0.00											
644.nab_s	1	0.00	0.00											
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.

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General Notes

```
Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/lib64"
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 05:42:42 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
```

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Invalid Run

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Platform Notes (Continued)

```
From lscpu:
     Architecture:        x86_64
     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*
```

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Invalid RT

Platform Notes (Continued)

```
    debian_version: buster/sid
    os-release:
       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 11 02:27

 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)
------------------------------------------------------------------------------
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
```


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Compiler Version Notes (Continued)

```
  --disable-werror --with-arch-32=i686 --with-abi=m64
  --with-multilib-list=m32,m64,mx32 --with-tune=generic
  --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-typecheck=callARRAY(0x760e478)

Base Runtime Environment

C benchmarks:

619.lbm_s: No flags used

Base Compiler Invocation

C benchmarks:

619.lbm_s: gcc

Base Portability Flags

619.lbm_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

619.lbm_s: -m64 -std=c99 -O2 -march=native
-fplugin=/home/zet/code/pax-rap/src/rap_plugin/rap_plugin.so
-fopenmp -DSPEC_OPENMP

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Base Other Flags

C benchmarks:

619.lbm_s: `No flags used`

Invalid RU

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

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