SPEC® CPU2017 Floating Point Rate Result

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My Corporation

SPECrate2017_fp_base =   5.10

SPECrate2017_fp_peak = Not Run
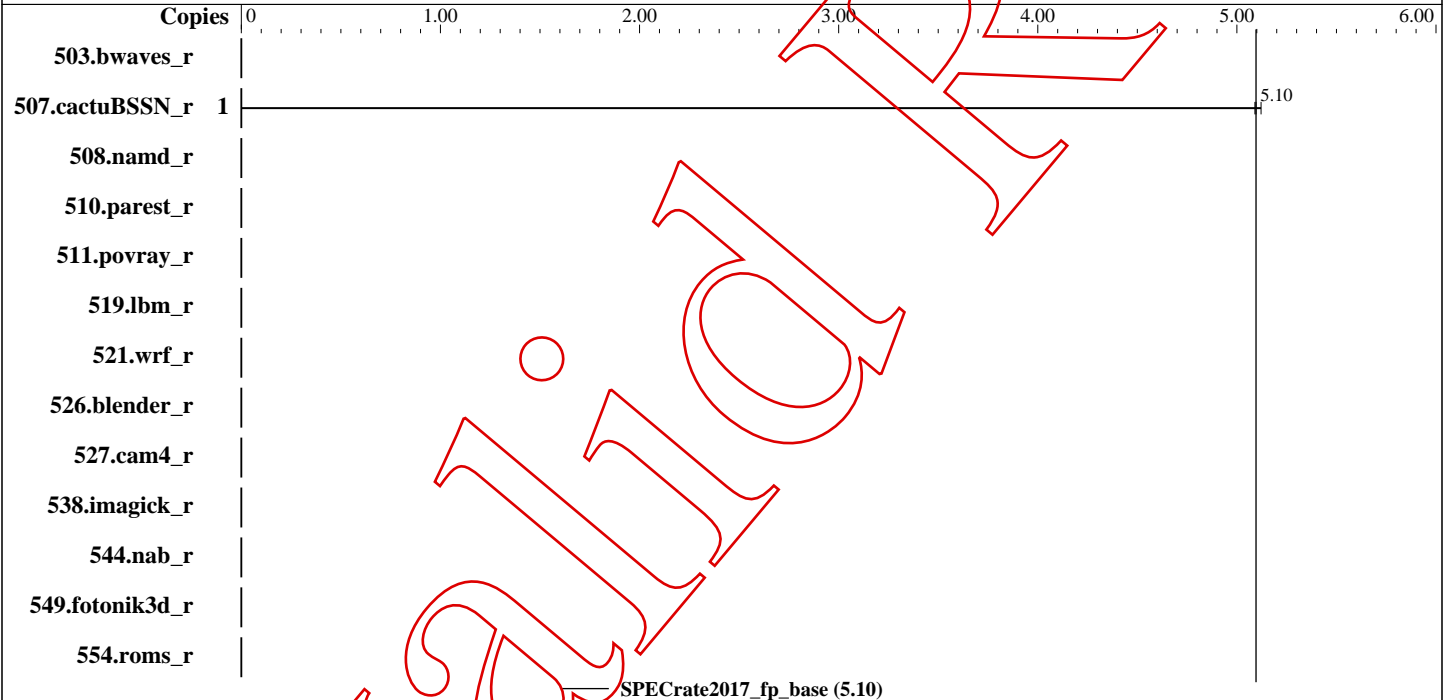
CPU2017 License: nnn (Your SPEC license number)
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Nov-2017
Hardware Availability:
Software Availability:

Copies		
503.bwaves_r		
507.cactuBSSN_r	1	5.10
508.namd_r		
510.parest_r		
511.povray_r		
519.lbm_r		
521.wrf_r		
526.blender_r		
527.cam4_r		
538.imagick_r		
544.nab_r		
549.fotonik3d_r		
554.roms_r		

SPECrate2017_fp_base (5.10)

Hardware

CPU Name: Intel Core i5-6600
  Max MHz.:
  Nominal:
Enabled: cores, 1 chip, threads/core
Orderable:
Cache L1:
  L2:
  L3:
  Other:
Memory: 7.676 GB fixme: If using DDR3, format is:
            'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Storage: 2.7 TB add more disk info here
Other:

Software

OS: Ubuntu 16.04.1 LTS
               4.4.0-31-generic
Compiler: C/C++: Version 3.9.0 of Clang, the
               LLVM Compiler Infrastructure
               Fortran: Version 4.8.2 of GCC, the
               GNU Compiler Collection
               DragonEgg: Version 3.5.2, the
               LLVM Compiler Infrastructure
Parallel: No
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

503.bwaves_r (base) did not have enough runs!

519.lbm_r (base) did not have enough runs!

521.wrf_r (base) did not have enough runs!

508.namd_r (base) did not have enough runs!

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Errors (Continued)

554.roms_r (base) did not have enough runs!
538.imagick_r (base) did not have enough runs!
510.parest_r (base) did not have enough runs!
511.povray_r (base) did not have enough runs!
549.fotonik3d_r (base) did not have enough runs!
527.cam4_r (base) did not have enough runs!
544.nab_r (base) did not have enough runs!
526.blender_r (base) did not have enough runs!

Results Table

Benchmark	Base Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Peak Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r														
507.cactuBSSN_r	1	247	5.12	**248**	**5.10**	249	5.09							
508.namd_r														
510.parest_r														
511.povray_r														
519.lbm_r														
521.wrf_r														
526.blender_r														
527.cam4_r														
538.imagick_r														
544.nab_r														
549.fotonik3d_r														
554.roms_r														

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

Submit Notes

The config file option 'submit' was used.

General Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/mnt/freezedisk/llvm-intptr-base-5.0-release/lib"
LIBRARY_PATH = "/mnt/freezedisk/llvm-intptr-base-5.0-release/lib"

PATH = "/mnt/freezedisk/llvm-intptr-base-5.0-release/bin/:/mnt/freezedisk/speccpu2017-intptr/bin/:/home/sflab/.opam/system/bin/:/home/sflab/bin/:/home/sflab/.local/bin/:/home/sflab/.opam/system/bin/:/home/sflab/bin/:/home/sflab/.local/bin/:/usr/local/sbin/:/usr/local/bin/:/usr/sbin/:/usr/bin/:/sbin/:/bin/:/usr/games/:/usr/local/games"

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Platform Notes

```
Sysinfo program /mnt/freezedisk/speccpu2017-intptr/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
running on ubuntu-freeze2 Wed Nov  1 22:48:20 2017

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(R) Core(TM) i5-6600 CPU @ 3.30GHz
      1  "physical id"s (chips)
      4 "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  : 4
      physical 0: cores 0 1 2 3

From lscpu:
   Architecture:          x86_64
   CPU op-mode(s):        32-bit, 64-bit
   Byte Order:            Little Endian
   CPU(s):                4
   On-line CPU(s) list:   0-3
   Thread(s) per core:    1
   Core(s) per socket:    4
   Socket(s):             1
   NUMA node(s):          1
   Vendor ID:             GenuineIntel
   CPU family:            6
   Model:                 94
   Model name:            Intel(R) Core(TM) i5-6600 CPU @ 3.30GHz
   Stepping:              3
   CPU MHz:               3300.000
   CPU max MHz:           3900.0000
   CPU min MHz:           800.0000
   BogoMIPS:              6623.96
   Virtualization:        VT-x
   L1d cache:             32K
   L1i cache:             32K
   L2 cache:              256K
   L3 cache:              6144K
   NUMA node0 CPU(s):     0-3
   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
   aperfmperf eagerfpu pni pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg
```

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Platform Notes (Continued)

```
    fma cx16 xtpr pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes
    xsave avx f16c rdrand lahf_lm abm 3dnowprefetch intel_pt tpr_shadow vnmi
    flexpriority ept vpid fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm
    mpx rdseed adx smap clflushopt xsaveopt xsavec xgetbv1 dtherm arat pln pts hwp
    hwp_notify hwp_act_window hwp_epp

  /proc/cpuinfo cache data
    cache size : 6144 KB

  From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a
  physical chip.
    available: 1 nodes (0)
    node 0 cpus: 0 1 2 3
    node 0 size: 7860 MB
    node 0 free: 7541 MB
    node distances:
    node   0
      0:  10

  From /proc/meminfo
    MemTotal:        8048764 kB
    HugePages_Total:       0
    Hugepagesize:       2048 kB

  /usr/bin/lsb_release -d
    Ubuntu 16.04.1 LTS

  From /etc/*release* /etc/*version*
    debian_version: stretch/sid
    os-release:
      NAME="Ubuntu"
      VERSION="16.04.1 LTS (Xenial Xerus)"
      ID=ubuntu
      ID_LIKE=debian
      PRETTY_NAME="Ubuntu 16.04.1 LTS"
      VERSION_ID="16.04"
      HOME_URL="http://www.ubuntu.com/"
      SUPPORT_URL="http://help.ubuntu.com/"

  uname -a:
    Linux ubuntu-freeze2 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016
    x86_64 x86_64 x86_64 GNU/Linux

  run-level 5 Oct 30 07:30

  SPEC is set to: /mnt/freezedisk/speccpu2017-intptr
    Filesystem      Type  Size  Used Avail Use% Mounted on
```

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Platform Notes (Continued)

```
   /dev/sdb1      ext4  2.7T  1.7T  909G  66% /mnt/freezedisk

 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

```
 ==============================================================================
  FC  507.cactuBSSN_r(base)
 ------------------------------------------------------------------------------
 clang version 6.0.0 (https://github.com/aqjune/clang-intptr.git
   b099f9b86954800bcbdee427fc703eb8a30389da)
   (https://github.com/aqjune/llvm-intptr.git
   d3762c4675cbe5178acef79f01c813bcbfc58cf5)
 Target: x86_64-unknown-linux-gnu
 Thread model: posix
 InstalledDir: /mnt/freezedisk/llvm-intptr-base-5.0-release/bin
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5.4.0
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/6
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/6.0.0
 Selected GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5.4.0
 Candidate multilib: .;@m64
 Selected multilib: .;@m64
 clang version 6.0.0 (https://github.com/aqjune/clang-intptr.git
   b099f9b86954800bcbdee427fc703eb8a30389da)
   (https://github.com/aqjune/llvm-intptr.git
   d3762c4675cbe5178acef79f01c813bcbfc58cf5)
 Target: x86_64-unknown-linux-gnu
 Thread model: posix
 InstalledDir: /mnt/freezedisk/llvm-intptr-base-5.0-release/bin
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5.4.0
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/6
 Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/6.0.0
 Selected GCC installation: /usr/lib/gcc/x86_64-linux-gnu/5.4.0
 Candidate multilib: .;@m64
 Selected multilib: .;@m64
 Using built-in specs.
 COLLECT_GCC=/usr/bin/gfortran
 COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/5/lto-wrapper
 Target: x86_64-linux-gnu
```

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Compiler Version Notes (Continued)

```
Configured with: ../src/configure -v --with-pkgversion='Ubuntu
  5.4.0-6ubuntu1~16.04.4'
  --with-bugurl=file:///usr/share/doc/gcc-5/README.Bugs
  --enable-languages=c,ada,c++,java,go,d,fortran,objc,obj-c++ --prefix=/usr
  --program-suffix=-5 --enable-shared --enable-linker-build-id
  --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix
  --libdir=/usr/lib --enable-nls --with-sysroot=/ --enable-clocale=gnu
  --enable-libstdcxx-debug --enable-libstdcxx-time=yes
  --with-default-libstdcxx-abi=new --enable-gnu-unique-object
  --disable-vtable-verify --enable-libmpx --enable-plugin --with-system-zlib
  --disable-browser-plugin --enable-java-awt=gtk --enable-gtk-cairo
  --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-5-amd64/jre --enable-java-home
  --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-5-amd64
  --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-5-amd64
  --with-arch-directory=amd64 --with-ecj-jar=/usr/share/java/eclipse-ecj.jar
  --enable-objc-gc --enable-multiarch --disable-werror --with-arch-32=i686
  --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib
  --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 5.4.0 20160609 (Ubuntu 5.4.0-6ubuntu1~16.04.4)
----------------------------------------------------------------------
```

Base Compiler Invocation

Benchmarks using Fortran, C, and C++:
```
clang++ clang gfortran
```

Base Portability Flags

507.cactuBSSN_r: -DSPEC_LP64

Base Optimization Flags

Benchmarks using Fortran, C, and C++:
```
-m64(clangxx) -m64(gfortran) -O3(clang) -mavx -O3(gfortran)
-funroll-loops -z muldefs
```

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