SPEC® CPU2017 Floating Point Rate Result

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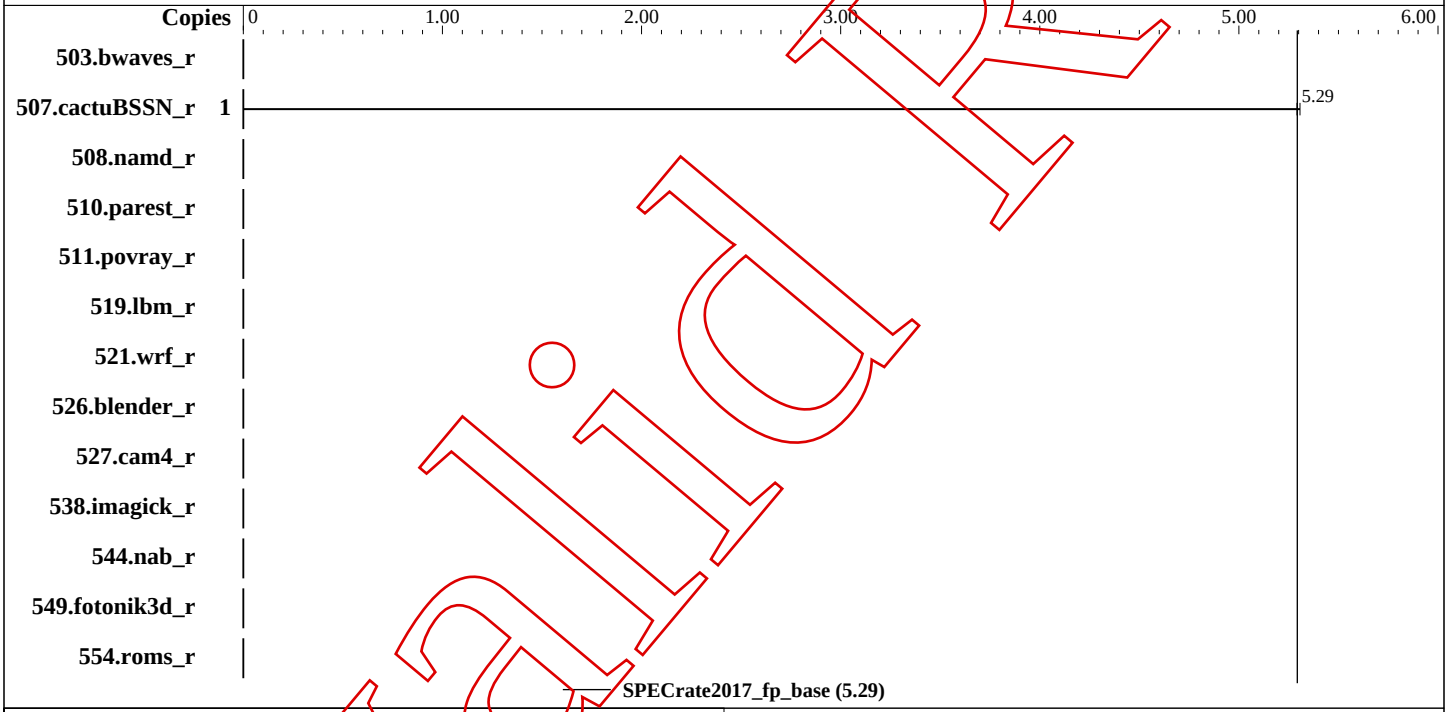
SPECrate2017_fp_base = 5.29

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:



Hardware

CPU Name: Intel Core i7-7700
Max MHz.:
Nominal:
Enabled: cores, 1 chip, threads/core
Orderable:
Cache L1:
L2:
L3:
Other:
Memory: 7.507 GB fixme: If using DDR3, format is: 'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Storage: 939 GB add more disk info here
Other:

Software

OS: Ubuntu 16.04.3 LTS 4.4.0-97-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 3 (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:

Errors

'reportable' flag not set during run
554.roms_r (base) did not have enough runs!
549.fotonik3d_r (base) did not have enough runs!
526.blender_r (base) did not have enough runs!
527.cam4_r (base) did not have enough runs!

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Errors (Continued)

503.bwaves_r (base) did not have enough runs!
511.povray_r (base) did not have enough runs!
519.lbm_r (base) did not have enough runs!
510.parest_r (base) did not have enough runs!
544.nab_r (base) did not have enough runs!
538.imagick_r (base) did not have enough runs!
508.namd_r (base) did not have enough runs!
521.wrf_r (base) did not have enough runs!

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r														
507.cactuBSSN_r	1	239	5.31	239	5.29	**239**	**5.29**							
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-br5.5-gvnnocast-release/lib"
LIBRARY_PATH = "/mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-release/lib"

PATH = "/mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-release/bin:/mnt/freezedisk/speccpu2017-intptr/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin"
```

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Platform Notes

```
Sysinfo program /mnt/freezedisk/speccpu2017-intptr/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
running on freeze3 Mon Nov 13 18:21:22 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) i7-7700 CPU @ 3.60GHz
      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:                 158
     Model name:            Intel(R) Core(TM) i7-7700 CPU @ 3.60GHz
     Stepping:              9
     CPU MHz:               3551.625
     CPU max MHz:           4200.0000
     CPU min MHz:           800.0000
     BogoMIPS:              7199.62
     Virtualization:        VT-x
     L1d cache:             32K
     L1i cache:             32K
     L2 cache:              256K
     L3 cache:              8192K
     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 epb 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 : 8192 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: 7687 MB
   node 0 free: 7252 MB
   node distances:
   node   0
     0:  10

 From /proc/meminfo
    MemTotal:        7872084 kB
    HugePages_Total:       0
    Hugepagesize:       2048 kB

 /usr/bin/lsb_release -d
    Ubuntu 16.04.3 LTS

 From /etc/*release* /etc/*version*
    debian_version: stretch/sid
    os-release:
      NAME="Ubuntu"
      VERSION="16.04.3 LTS (Xenial Xerus)"
      ID=ubuntu
      ID_LIKE=debian
      PRETTY_NAME="Ubuntu 16.04.3 LTS"
      VERSION_ID="16.04"
      HOME_URL="http://www.ubuntu.com/"
      SUPPORT_URL="http://help.ubuntu.com/"

 uname -a:
    Linux freeze3 4.4.0-97-generic #120-Ubuntu SMP Tue Sep 19 17:28:18 UTC 2017 x86_64
    x86_64 x86_64 GNU/Linux

 run-level 3 Oct 29 18:30

 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   939G   727G   165G   82% /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
  4c61e7d94696e3346da34031080891f5b176cbe3)
  (https://github.com/aqjune/llvm-intptr.git
  dc57902874362bda6a92afc0a30531112b9a1258)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-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
  4c61e7d94696e3346da34031080891f5b176cbe3)
  (https://github.com/aqjune/llvm-intptr.git
  dc57902874362bda6a92afc0a30531112b9a1258)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-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
  5.4.0-6ubuntu1~16.04.5'
  --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 5.4.0-6ubuntu1~16.04.5)
------------------------------------------------------------------------------
```

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

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