SPEC® CPU2017 Floating Point Rate Result

My Corporation

SPECrate2017_fp_base = 4.98

SPECrate2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)　　　**Test Date:** Nov-2017
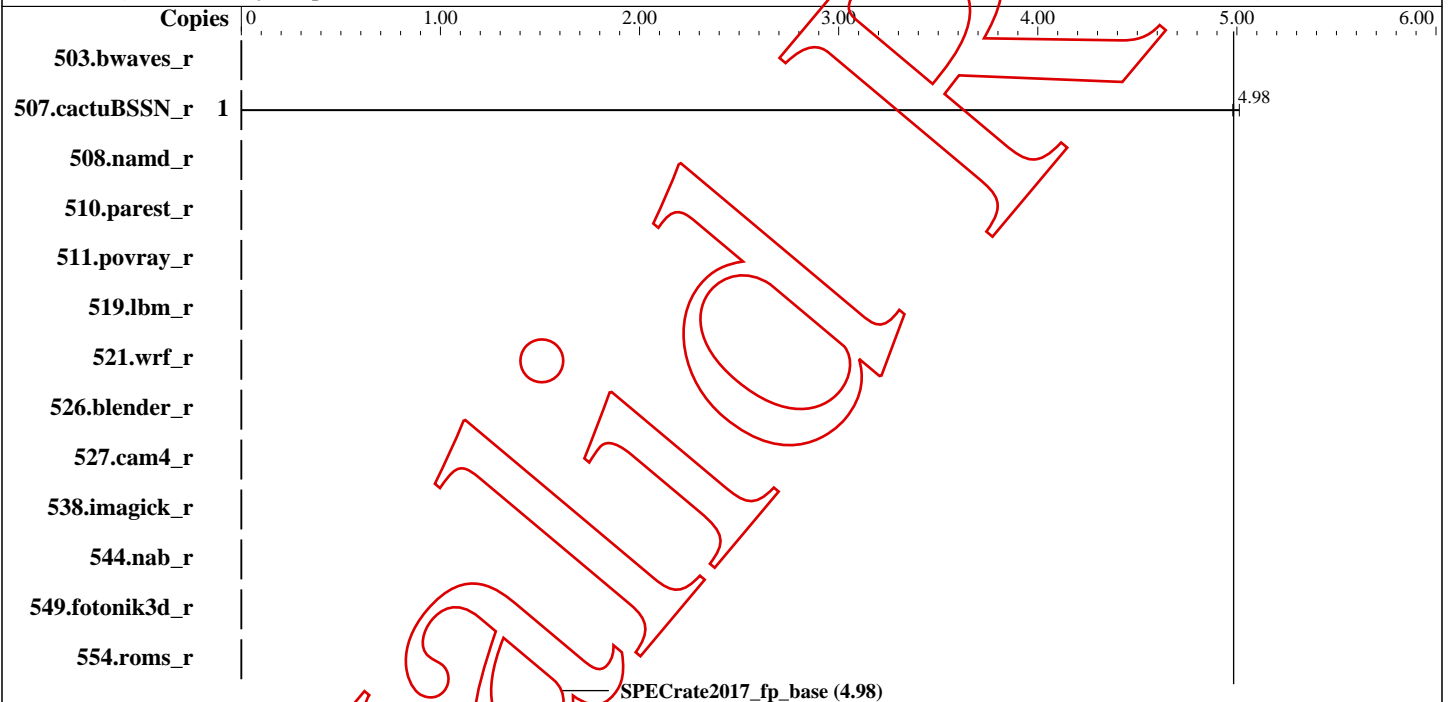**Test Sponsor:** My Corporation　　　**Hardware Availability:**
Tested by: My Corporation　　　**Software Availability:**

Copies graph, scale 0 to 6.00:

- 503.bwaves_r
- 507.cactuBSSN_r 1 — 4.98
- 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 (4.98)

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

554.roms_r (base) did not have enough runs!

538.imagick_r (base) did not have enough runs!

511.povray_r (base) did not have enough runs!

510.parest_r (base) did not have enough runs!

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Errors (Continued)

526.blender_r (base) did not have enough runs!
527.cam4_r (base) did not have enough runs!
549.fotonik3d_r (base) did not have enough runs!
544.nab_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!
519.lbm_r (base) did not have enough runs!
503.bwaves_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	253	5.01	**254**	**4.98**	254	4.98							
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-br2-correct2-release/lib"
LIBRARY_PATH = "/mnt/freezedisk/llvm-intptr-br2-correct2-release/lib"

PATH = "/mnt/freezedisk/llvm-intptr-br2-correct2-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 96c45e4568ad54c135fd618bcc091o0f
running on ubuntu-freeze2 Fri Nov  3 20:10:23 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:               3248.437
   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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 https://www.spec.org/

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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: 7481 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  907G  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
  072bcfdd83ea02b321f72fca30d5a8384325de92)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /mnt/freezedisk/llvm-intptr-br2-correct2-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
  072bcfdd83ea02b321f72fca30d5a8384325de92)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /mnt/freezedisk/llvm-intptr-br2-correct2-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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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 2017-11-03 20:10:22+0900.
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