

SPEC® CPU2017 Floating Point Rate Result

Copyright 2017 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017_fp_base = 5.29

SPECrate2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

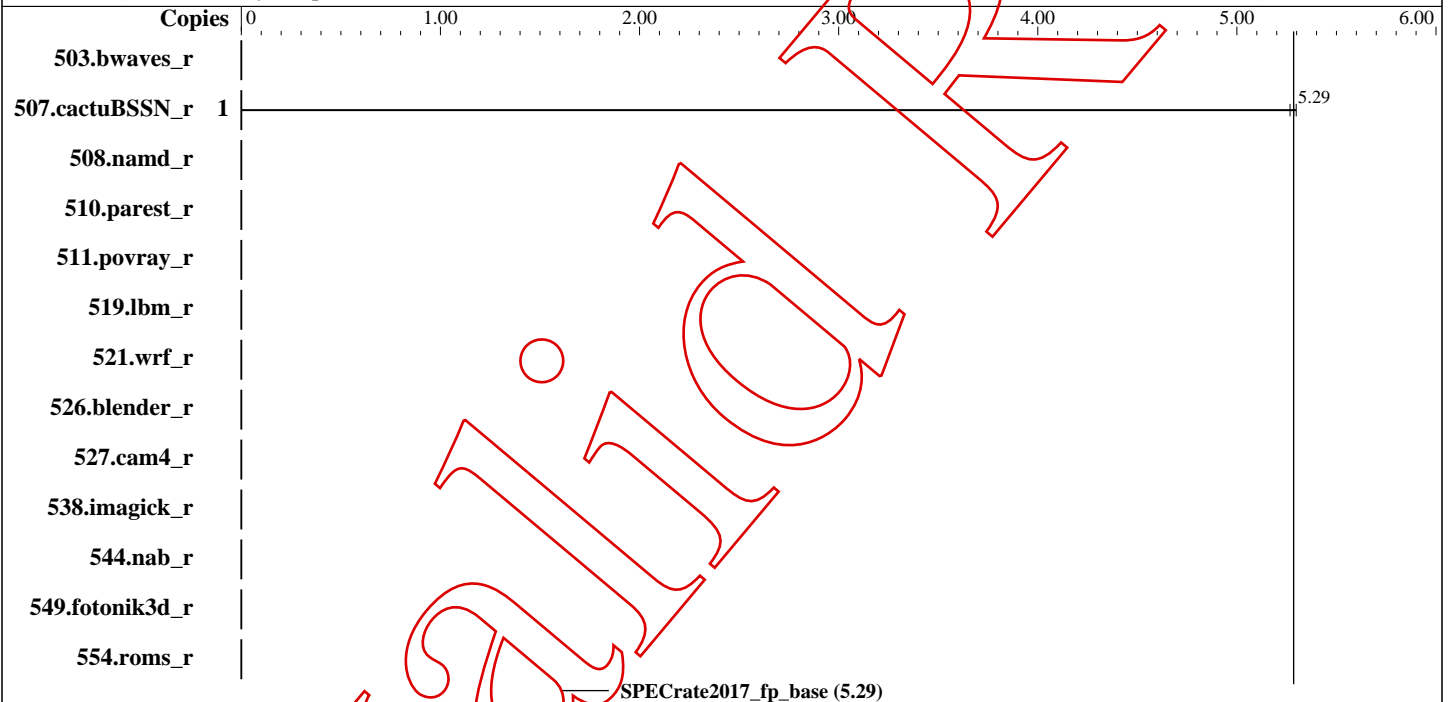
Test Sponsor: My Corporation

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:
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
538.imagick_r (base) did not have enough runs!
503.bwaves_r (base) did not have enough runs!
549.fotonik3d_r (base) did not have enough runs!
554.roms_r (base) did not have enough runs!

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Errors (Continued)

510.parest_r (base) did not have enough runs!
519.lbm_r (base) did not have enough runs!
527.cam4_r (base) did not have enough runs!
511.povray_r (base) did not have enough runs!
526.blender_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!

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	5.30	<u>240</u>	<u>5.29</u>	240	5.27							
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:/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 Fri Nov 3 06:39:30 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: 3358.125

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 fl6c 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: 7228 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 719G 173G 81% /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
5.4.0-6ubuntu1~16.04.5'
--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-multilib --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.

Tested with SPEC CPU2017 v1.0.2 on 2017-11-03 06:39:29-0400.

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