

# SPEC® CPU2017 Floating Point Rate Result

Copyright 2017 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017\_fp\_base = 5.26

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

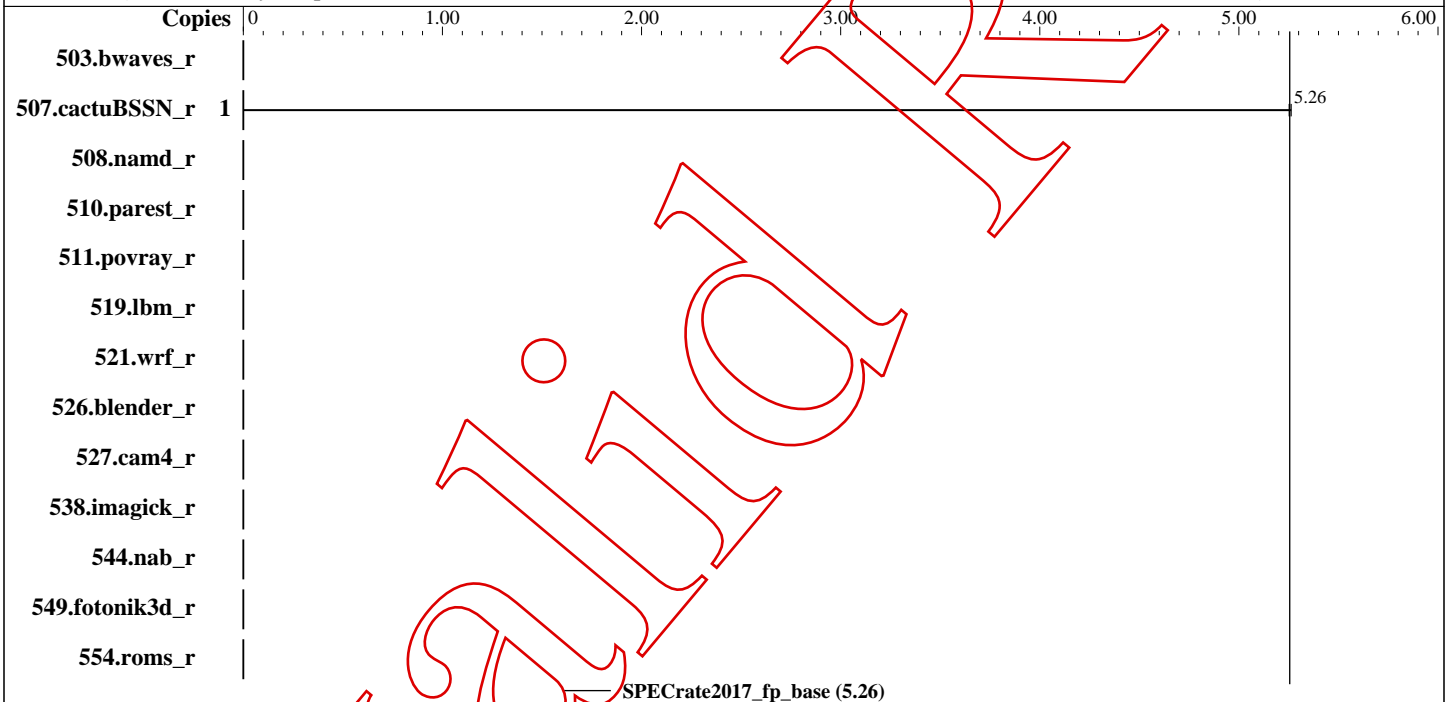
Test Sponsor: My Corporation

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  
511.povray\_r (base) did not have enough runs!  
521.wrf\_r (base) did not have enough runs!  
526.blender\_r (base) did not have enough runs!  
549.fotonik3d\_r (base) did not have enough runs!

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## Errors (Continued)

538.imagick\_r (base) did not have enough runs!  
503.bwaves\_r (base) did not have enough runs!  
510.parest\_r (base) did not have enough runs!  
519.lbm\_r (base) did not have enough runs!  
554.roms\_r (base) did not have enough runs!  
544.nab\_r (base) did not have enough runs!  
527.cam4\_r (base) did not have enough runs!  
508.namd\_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	241	5.26	<u>241</u>	<u>5.26</u>	241	5.25							
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:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/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 Wed Nov 1 09:25:32 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: 3536.156

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 ept 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: 7233 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 716G 176G 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>  
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
5.4.0-6ubuntu1~16.04.5'
--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](mailto:info@spec.org).

Tested with SPEC CPU2017 v1.0.2 on 2017-11-01 09:25:32-0400.

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