

SPEC® CPU2017 Floating Point Rate Result

Copyright 2017 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017_fp_base = 4.07

SPECrate2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

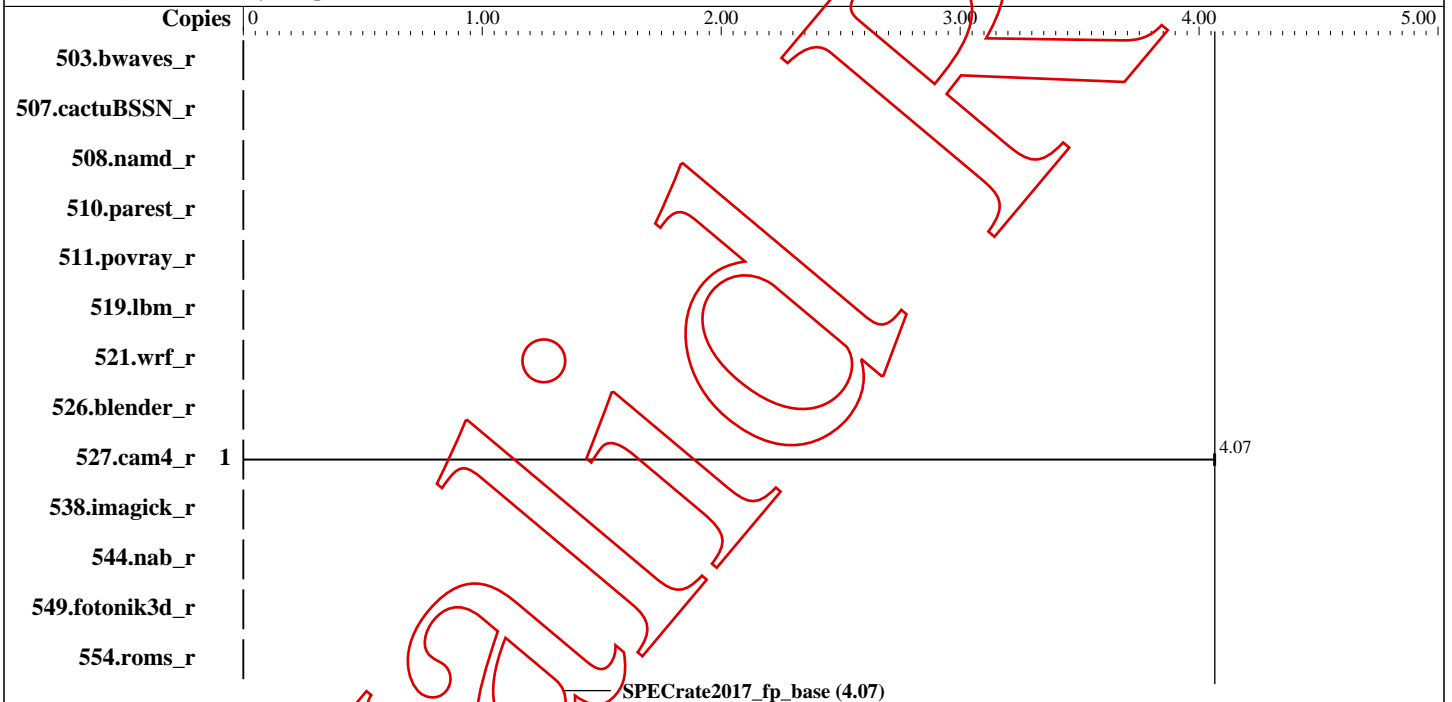
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Nov-2017

Hardware Availability:

Software Availability:



Hardware

CPU Name: Intel Core 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:
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
510.parest_r (base) did not have enough runs!
538.imagick_r (base) did not have enough runs!
507.cactuBSSN_r (base) did not have enough runs!
544.nab_r (base) did not have enough runs!

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

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

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

519.lbm_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!

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

526.blender_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														
508.namd_r														
510.parest_r														
511.povray_r														
519.lbm_r														
521.wrf_r														
526.blender_r														
527.cam4_r	1	431	4.06	<u>430</u>	<u>4.07</u>	430	4.07							
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/eflab/.open/system/bin:/home/eflab/bin:/home/eflab/.local/bin:/home/eflab/.open/system/bin:/home/eflab/bin:/home/eflab/.local/bin:/usr/local/bin:/usr/sbin:/usr/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 23:47:09 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: 3236.578

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

(Continued on next page)

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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 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: 7532 MB
node distances:
node    0
0:      10
```

From /proc/meminfo

```
MemTotal:      8048754 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

=====
CC 527.cam4_r(base)
=====

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

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)

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

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Compiler Version Notes (Continued)

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

Base Runtime Environment

Benchmarks using both Fortran and C:

527.cam4_r: No flags used

Base Compiler Invocation

Benchmarks using both Fortran and C:

527.cam4_r: clang gfortran

Base Portability Flags

527.cam4_r: -DSPEC_CASE_FLAG -DSPEC_LP64

Base Optimization Flags

Benchmarks using both Fortran and C:

527.cam4_r: -m64(clang) -m64(gfortran) -O3(clang) -mavx -O3(gfortran)
-funroll-loops -z muldefs -lgfortran

Base Other Flags

Benchmarks using both Fortran and C:

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Base Other Flags (Continued)

527.cam4_r: No flags used

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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 2017-11-01 23:47:08+0900.

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