SPEC® CPU2017 Floating Point Rate Result

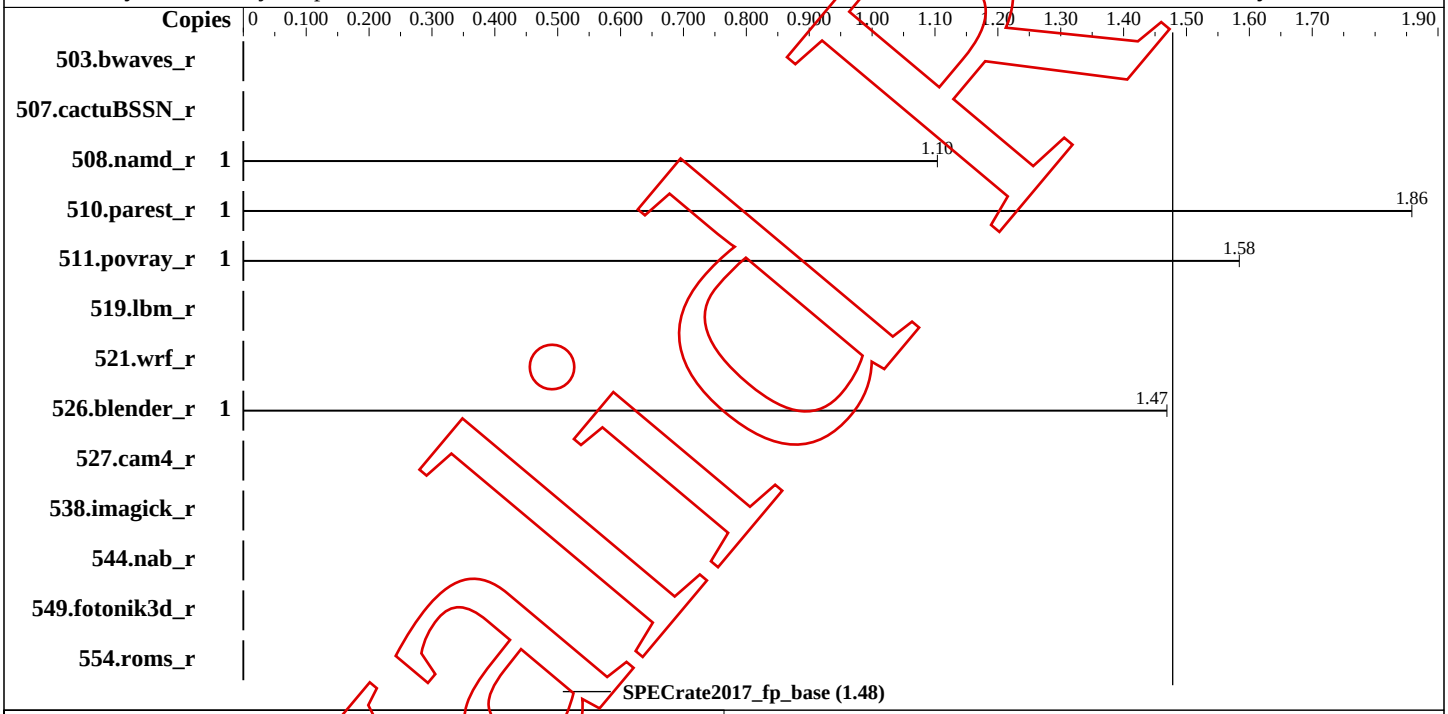
My Corporation

SPECrate2017_fp_base = 1.48

SPECrate2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Dec-2017
Hardware Availability:
Software Availability:



Hardware

CPU Name: Intel Core (Broadwell)
Max MHz.:
Nominal:
Enabled: cores, 2 chips, threads/core
Orderable:
Cache L1:
L2:
L3:
Other:
Memory: 3.368 GB fixme: If using DDR3, format is: 'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'
Storage: 30 GB add more disk info here
Other:

Software

OS: Scientific Linux CERN SLC release 6.9 (Carbon) 3.10.0-514.10.2.el7.x86_64
Compiler: C/C++/Fortran: Version 6.2.0 of GCC, the GNU Compiler Collection
Parallel: No
Firmware:
File System: ext4
System State: Run level N (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:

Errors

'reportable' flag not set during run
544.nab_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!
554.roms_r (base) did not have enough runs!
508.namd_r (base) did not have enough runs!
538.imagick_r (base) did not have enough runs!

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Errors (Continued)

503.bwaves_r (base) did not have enough runs!
527.cam4_r (base) did not have enough runs!
526.blender_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!
549.fotonik3d_r (base) did not have enough runs!
507.cactuBSSN_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	1	**861**	**1.10**											
510.parest_r	1	**1408**	**1.86**											
511.povray_r	1	**1474**	**1.58**											
519.lbm_r														
521.wrf_r														
526.blender_r	1	**1037**	**1.47**											
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.

General Notes

```
Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/lib64"
```

Platform Notes

```
Sysinfo program /spec2017/bin/sysinfo
Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f
running on 4bdabd3c3191 Wed Dec 20 15:54:26 2017

SUT (System Under Test) info as seen by some common utilities.
```

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Platform Notes (Continued)

```
For more information on this section, see
   https://www.spec.org/cpu2017/Docs/config.html#sysinfo

From /proc/cpuinfo
   model name : Intel Core Processor (Broadwell)
      2  "physical id"s (chips)
      2 "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 : 1
      siblings  : 1
      physical 0: cores 0
      physical 1: cores 0

From lscpu:
     Architecture:          x86_64
     CPU op-mode(s):        32-bit, 64-bit
     Byte Order:            Little Endian
     CPU(s):                2
     On-line CPU(s) list:   0,1
     Thread(s) per core:    1
     Core(s) per socket:    1
     Socket(s):             2
     NUMA node(s):          1
     Vendor ID:             GenuineIntel
     CPU family:            6
     Model:                 61
     Model name:            Intel Core Processor (Broadwell)
     Stepping:              2
     CPU MHz:               2194.916
     BogoMIPS:              4389.83
     Virtualization:        VT-x
     Hypervisor vendor:     KVM
     Virtualization type:   full
     L1d cache:             32K
     L1i cache:             32K
     L2 cache:              4096K
     NUMA node0 CPU(s):     0,1

/proc/cpuinfo cache data
   cache size : 4096 KB

From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a
physical chip.

From /proc/meminfo
   MemTotal:        3531712 kB
```

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Platform Notes (Continued)

```
    HugePages_Total:       0
    Hugepagesize:       2048 kB

 /usr/bin/lsb_release -d
    Scientific Linux CERN SLC release 6.9 (Carbon)

 From /etc/*release* /etc/*version*
    redhat-release: Scientific Linux CERN SLC release 6.9 (Carbon)
    system-release: Scientific Linux CERN SLC release 6.9 (Carbon)
    system-release-cpe: cpe:/o:redhat:enterprise_linux:6.9:ga

 uname -a:
    Linux 4bdabd3c3191 3.10.0-514.10.2.el7.x86_64 #1 SMP Fri Mar 3 00:04:05 UTC 2017
    x86_64 x86_64 x86_64 GNU/Linux


 SPEC is set to: /spec2017
    Filesystem     Type  Size  Used Avail Use% Mounted on
    /dev/vdb       ext4   30G   28G  463M  99% /spec2017

 (End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
 CXXC 508.namd_r(base) 510.parest_r(base)
------------------------------------------------------------------------------
Using built-in specs.
Target: x86_64-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man
  --infodir=/usr/share/info --with-bugurl=http://bugzilla.redhat.com/bugzilla
  --enable-bootstrap --enable-shared --enable-threads=posix
  --enable-checking=release --with-system-zlib --enable-__cxa_atexit
  --disable-libunwind-exceptions --enable-gnu-unique-object
  --enable-languages=c,c++,objc,obj-c++,java,fortran,ada
  --enable-java-awt=gtk --disable-dssi
  --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre
  --enable-libgcj-multifile --enable-java-maintainer-mode
  --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libjava-multilib
  --with-ppl --with-cloog --with-tune=generic --with-arch_32=i686
  --build=x86_64-redhat-linux
Thread model: posix
gcc version 4.4.7 20120313 (Red Hat 4.4.7-18) (GCC)
------------------------------------------------------------------------------

==============================================================================
```

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Compiler Version Notes (Continued)

```
 CC  511.povray_r(base) 526.blender_r(base)
------------------------------------------------------------------------------
Using built-in specs.
Target: x86_64-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man
  --infodir=/usr/share/info --with-bugurl=http://bugzilla.redhat.com/bugzilla
  --enable-bootstrap --enable-shared --enable-threads=posix
  --enable-checking=release --with-system-zlib --enable-__cxa_atexit
  --disable-libunwind-exceptions --enable-gnu-unique-object
  --enable-languages=c,c++,objc,obj-c++,java,fortran,ada
  --enable-java-awt=gtk --disable-dssi
  --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre
  --enable-libgcj-multifile --enable-java-maintainer-mode
  --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libjava-multilib
  --with-ppl --with-cloog --with-tune=generic --with-arch_32=i686
  --build=x86_64-redhat-linux
Thread model: posix
gcc version 4.4.7 20120313 (Red Hat 4.4.7-18) (GCC)
Using built-in specs.
Target: x86_64-redhat-linux
Configured with: ../configure --prefix=/usr --mandir=/usr/share/man
  --infodir=/usr/share/info --with-bugurl=http://bugzilla.redhat.com/bugzilla
  --enable-bootstrap --enable-shared --enable-threads=posix
  --enable-checking=release --with-system-zlib --enable-__cxa_atexit
  --disable-libunwind-exceptions --enable-gnu-unique-object
  --enable-languages=c,c++,objc,obj-c++,java,fortran,ada
  --enable-java-awt=gtk --disable-dssi
  --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-1.5.0.0/jre
  --enable-libgcj-multifile --enable-java-maintainer-mode
  --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --disable-libjava-multilib
  --with-ppl --with-cloog --with-tune=generic --with-arch_32=i686
  --build=x86_64-redhat-linux
Thread model: posix
gcc version 4.4.7 20120313 (Red Hat 4.4.7-18) (GCC)
------------------------------------------------------------------------------
```

Base Compiler Invocation

C++ benchmarks:
g++

Benchmarks using both C and C++:
g++ gcc

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Base Portability Flags

508.namd_r: `-DSPEC_LP64`
510.parest_r: `-DSPEC_LP64`
511.povray_r: `-DSPEC_LP64`
526.blender_r: `-funsigned-char -DSPEC_LINUX -DSPEC_LP64`

Base Optimization Flags

C++ benchmarks:
`-m64 -g -O3`

Benchmarks using both C and C++:
`-m64 -std=c99 -g -O3`

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

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