

# SPEC CPU®2017 Floating Point Speed Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

My Corporation

SPECspeed®2017\_fp\_base = 2.68

SPECspeed®2017\_fp\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

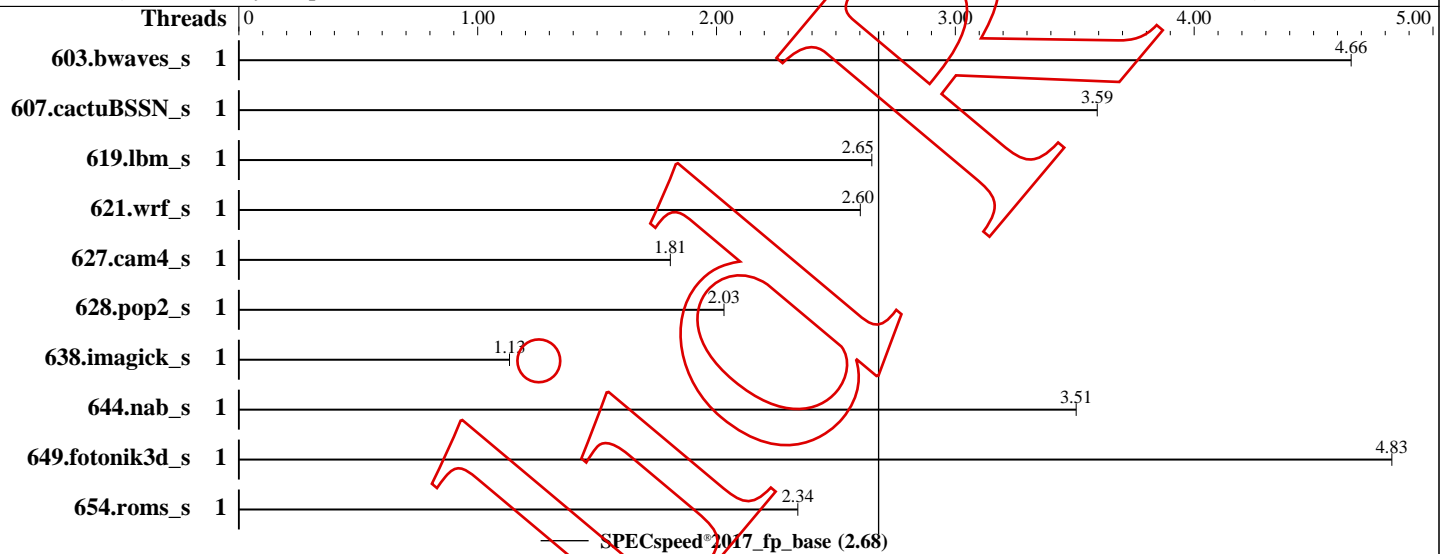
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Nov-2020

Hardware Availability:

Software Availability:



## Hardware

CPU Name: Intel Xeon Bronze 3106  
Max MHz:  
Nominal:  
Enabled: cores, 1 chip, threads/core  
Orderable:  
Cache L1:  
L2:  
L3:  
Other:  
Memory: 78.334 GB fixme: If using DDR4, the format is:  
'N GB (N x N GB nRxn PC4-nnnnX-X)'  
Storage: 6.9 TB add more disk info here  
Other:

## Software

OS: Ubuntu 18.04.3 LTS  
4.15.0-70-generic  
Compiler: C/C++/Fortran: Version 7.2.1 of GCC, the  
GNU Compiler Collection  
Parallel: Yes  
Firmware:  
File System: nfs  
System State: Run level 5 (add definition here)  
Base Pointers: 64-bit  
Peak Pointers: Not Applicable  
Other:  
Power Management: --

## Errors

'reportable' flag not set during run  
621.wrf\_s (base) did not have enough runs!  
649.fotonik3d\_s (base) did not have enough runs!  
654.roms\_s (base) did not have enough runs!  
603.bwaves\_s (base) did not have enough runs!  
638.imagick\_s (base) did not have enough runs!  
619.lbm\_s (base) did not have enough runs!  
628.pop2\_s (base) did not have enough runs!  
627.cam4\_s (base) did not have enough runs!  
607.cactuBSSN\_s (base) did not have enough runs!  
644.nab\_s (base) did not have enough runs!

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## Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s	1	<u>12668</u>	<u>4.66</u>											
607.cactuBSSN_s	1	<u>4638</u>	<u>3.59</u>											
619.lbm_s	1	<u>1976</u>	<u>2.65</u>											
621.wrf_s	1	<u>5083</u>	<u>2.60</u>											
627.cam4_s	1	<u>4906</u>	<u>1.81</u>											
628.pop2_s	1	<u>5845</u>	<u>2.03</u>											
638.imagick_s	1	<u>12730</u>	<u>1.13</u>											
644.nab_s	1	<u>4983</u>	<u>3.51</u>											
649.fotonik3d_s	1	<u>1888</u>	<u>4.83</u>											
654.roms_s	1	<u>6727</u>	<u>2.34</u>											

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Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

## Environment Variables Notes

Environment variables set by runcpu before the start of the run:  
LD\_LIBRARY\_PATH = "/usr/lib64/:/usr/lib/:/lib64"  
OMP\_STACKSIZE = "120M"

## Platform Notes

Sysinfo program /u/home/schmidt/f/spec/bin/sysinfo  
Rev: r6365 of 2019-08-21 295195f888a3d7edble6e46a485a0011  
running on sksmall Tue Nov 3 17:50:50 2020

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) Xeon(R) Bronze 3106 CPU @ 1.70GHz  
1 "physical id"s (chips)  
8 "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 : 8  
siblings : 8  
physical 0: cores 0 1 2 3 4 5 6 7

From lscpu:

(Continued on next page)

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## Platform Notes (Continued)

Architecture: x86\_64  
CPU op-mode(s): 32-bit, 64-bit  
Byte Order: Little Endian  
CPU(s): 8  
On-line CPU(s) list: 0-7  
Thread(s) per core: 1  
Core(s) per socket: 8  
Socket(s): 1  
NUMA node(s): 1  
Vendor ID: GenuineIntel  
CPU family: 6  
Model: 85  
Model name: Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz  
Stepping: 4  
CPU MHz: 1700.001  
CPU max MHz: 1700.0000  
CPU min MHz: 800.0000  
BogoMIPS: 3400.00  
Virtualization: VT-x  
L1d cache: 32K  
L1i cache: 32K  
L2 cache: 1024K  
L3 cache: 11264K  
NUMA node0 CPU(s): 0-7  
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 cpuid aperfmperf pni pclmulqdq dtes64 monitor ds\_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb cat\_l3 cdp\_l3 invpcid\_single pti intel\_ppin ssbd mba ibrs ibpb stibp tpr\_shadow vnmi flexpriority ept vpid fsgsbase tsc\_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt\_a avx512f avx512dq rdseed adx smap clflushopt clwb intel\_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm\_llc cqm\_occup\_llc cqm\_mbm\_total cqm\_mbm\_local dtherm arat pln pts hwp hwp\_act\_window hwp\_pkg\_req pku ospke md\_clear flush\_l1d

/proc/cpuinfo cache data  
cache size : 11264 KB

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

From /proc/meminfo  
MemTotal: 82139464 kB  
HugePages\_Total: 0  
Hugepagesize: 2048 kB

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**Software Availability:**

## Platform Notes (Continued)

```
/usr/bin/lsb_release -d
Ubuntu 18.04.3 LTS
```

```
From /etc/*release* /etc/*version*
debian_version: buster/sid
os-release:
NAME="Ubuntu"
VERSION="18.04.3 LTS (Bionic Beaver)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 18.04.3 LTS"
VERSION_ID="18.04"
HOME_URL="https://www.ubuntu.com/"
SUPPORT_URL="https://help.ubuntu.com/"
```

```
uname -a:
Linux sksmall 4.15.0-70-generic #79-Ubuntu SMP Tue Nov 12 10:36:11 UTC 2019 x86_64
x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

```
itlb_multihit:
CVE-2018-3620 (L1 Terminal Fault):
Microarchitectural Data Sampling:
CVE-2017-5754 (Meltdown):
CVE-2018-3639 (Speculative Store Bypass):
CVE-2017-5753 (Spectre variant 1):
CVE-2017-5715 (Spectre variant 2):
tsx_async_abort.
```

KVM: Mitigation: Split huge pages  
Mitigation: PTE Inversion; VMX: conditional cache flushes, SMT disabled  
Mitigation: Clear CPU buffers; SMT disabled  
Mitigation: PTI  
Mitigation: Speculative Store Bypass disabled via prctl and seccomp  
Mitigation: usercopy/swapgs barriers and \_\_user pointer sanitization  
Mitigation: Full generic retpoline, IBPB: conditional, IBRS\_FW, STIBP: disabled, RSB filling  
Mitigation: Clear CPU buffers; SMT disabled

```
run-level 5 Nov 28 09:46
```

SPEC is set to: /u/home/schmidt/spec

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
nasill0.informatik.tu-muenchen.de:/srv/ill10/home	nfs	6.9T	4.4T	2.3T	67%	/u/home

```
From /sys/devices/virtual/dmi/id
BIOS: HPE U32 11/13/2019
Vendor: HPE
Product: ProLiant DL360 Gen10
Product Family: ProLiant
```

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## Platform Notes (Continued)

Cannot run dmidcode; consider saying (as root)  
chmod +s /usr/sbin/dmidcode

(End of data from sysinfo program)

## Compiler Version Notes

=====  
C | 619.lbm\_s(base) 638.imagick\_s(base) 644.nab\_s(base)  
=====

Using built-in specs.

COLLECT\_GCC=/usr/bin/gcc

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu

7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr

--with-gcc-major-version-only --program-suffix=-7

--program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id

--libexecdir=/usr/lib --without-included-gettext --enable-threads=posix

--libdir=/usr/lib --enable-nls --enable-bootstrap --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

--enable-default-pie --with-system-zlib --with-target-system-zlib

--enable-objc-gc=auto --enable-multiarch --disable-werror

--with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32

--enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none

--without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu

--host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)  
=====

=====  
C++, C, Fortran | 607.cactuBSSN\_s(base)  
=====

Using built-in specs.

COLLECT\_GCC=/usr/bin/g++

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

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## Compiler Version Notes (Continued)

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib --enable-objc-gc=auto --enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none --without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gcc

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib --enable-objc-gc=auto --enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none --without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gfortran

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

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## Compiler Version Notes (Continued)

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib --enable-objc-gc=auto --enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none --without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

Fortran | 603.bwaves\_s(base) 649.fotonik3d\_s(base) 654.roms\_s(base)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gfortran

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx:none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib --enable-objc-gc=auto --enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none --without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

(Continued on next page)

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## Compiler Version Notes (Continued)

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

Fortran, C | 621.wrf\_s(base) 627.cam4\_s(base) 628.pop2\_s(base)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gfortran

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib --enable-objc-gc=auto --enable-multiarch --disable-werror --with-arch=32-i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none --without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gcc

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

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OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr --with-gcc-major-version-only --program-suffix=-7 --program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix --libdir=/usr/lib --enable-nls --enable-bootstrap --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 --enable-default-pie --with-system-zlib --with-target-system-zlib

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## Compiler Version Notes (Continued)

```
--enable-objc-gc=auto --enable-multiarch --disable-werror
--with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32
--enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none
--without-cuda-driver --enable-checking=release --build=x86_64-linux-gnu
--host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)
```

## Base Compiler Invocation

C benchmarks:

gcc

Fortran benchmarks:

gfortran

Benchmarks using both Fortran and C:

gfortran gcc

Benchmarks using Fortran, C, and C++:

g++ gcc gfortran

## Base Portability Flags

```
603.bwaves_s: -static(*) -DSPEC_LP64
607.cactus_s: -static(*) -DSPEC_LP64
619.lbm_s: -static(*) -DSPEC_LP64
621.wrf_s: -static(*) -DSPEC_CASE_FLAG -fconvert=big-endian
-DSPEC_LP64
627.cam4_s: -static(*) -DSPEC_CASE_FLAG -DSPEC_LP64
628.pop2_s: -static(*) -DSPEC_CASE_FLAG -fconvert=big-endian
-DSPEC_LP64
638.imagick_s: -static(*) -DSPEC_LP64
644.nab_s: -static(*) -DSPEC_LP64
649.fotonik3d_s: -static(*) -DSPEC_LP64
654.roms_s: -static(*) -DSPEC_LP64
```

(\*) Indicates a portability flag that was found in a non-portability variable.

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## Base Optimization Flags

C benchmarks:

-m64 -std=c99 -O3 -DSPEC\_SUPPRESS\_OPENMP -march=x86-64 -fno-openmp

Fortran benchmarks:

-m64 -DSPEC\_SUPPRESS\_OPENMP -O3 -march=x86-64 -fno-openmp

Benchmarks using both Fortran and C:

-m64 -std=c99 -DSPEC\_SUPPRESS\_OPENMP -O3 -march=x86-64 -fno-openmp

Benchmarks using Fortran, C, and C++:

-m64 -std=c++03 -std=c99 -O3 -DSPEC\_SUPPRESS\_OPENMP -march=x86-64  
-fno-openmp

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