

# SPEC® CPU2017 Floating Point Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017\_fp\_base = 6.51

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: --

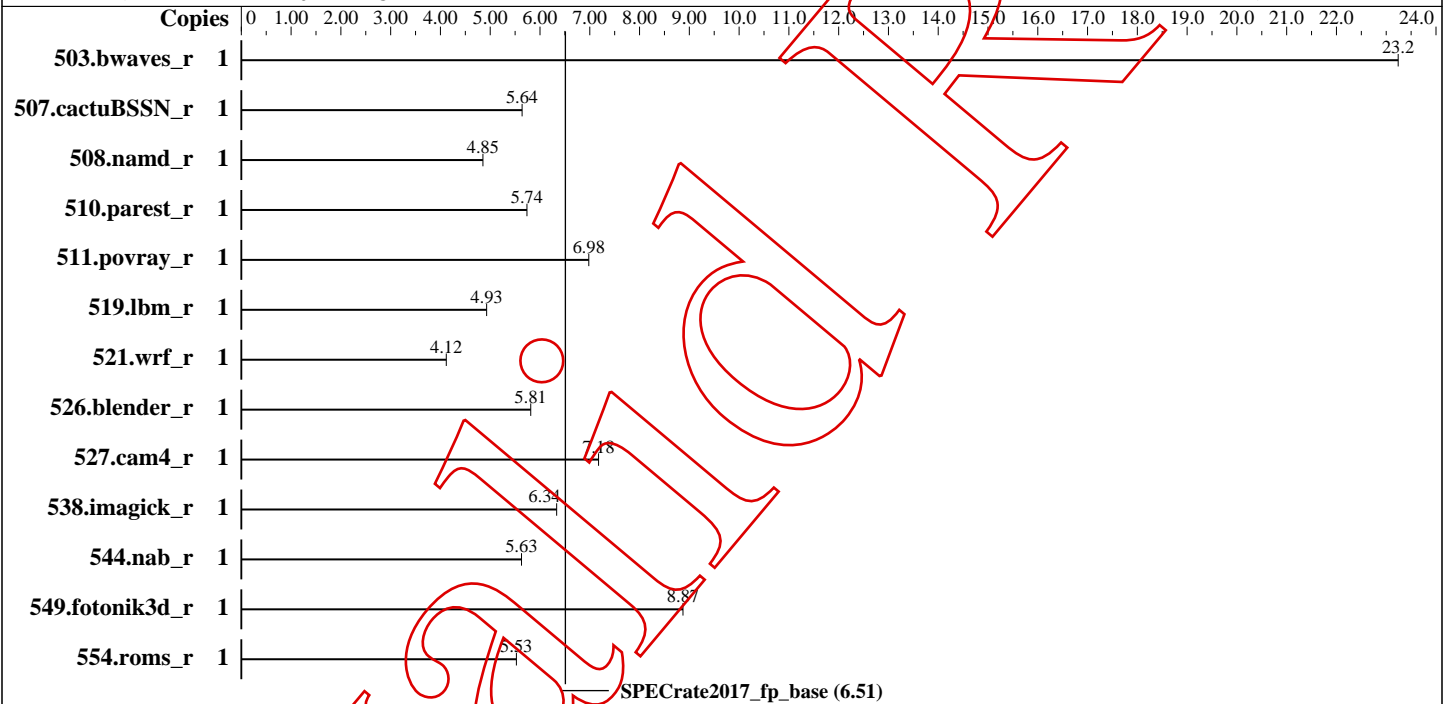
Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:



## Hardware

CPU Name: Intel i5-8300H  
Max MHz.: 4000  
Nominal: 2300  
Enabled: 4 cores, 1 chip, 2 threads/core  
Orderable: --  
Cache L1:  
L2:  
L3:  
Other:  
Memory: 7.701 GB fixme: If using DDR4, the format is:  
'N GB (N x N GB nRxn PC4-nnnX-X)'  
Storage: 137 GB, add more disk info here  
Other: --

## Software

OS: Parrot GNU/Linux 4.8  
5.4.0-3parrot1-amd64  
Compiler: C/C++/Fortran: Version 9.2.1 20200123 of GCC, the  
GNU Compiler Collection  
Parallel: No  
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  
527.cam4\_r (base) did not have enough runs!  
554.roms\_r (base) did not have enough runs!  
549.fotonik3d\_r (base) did not have enough runs!  
503.bwaves\_r (base) did not have enough runs!  
538.imagick\_r (base) did not have enough runs!  
521.wrf\_r (base) did not have enough runs!

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## Errors (Continued)

510.parest\_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!  
507.cactuBSSN\_r (base) did not have enough runs!  
544.nab\_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    | 1      | <b><u>431</u></b> | <b><u>23.2</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 507.cactuBSSN_r | 1      | <b><u>224</u></b> | <b><u>5.64</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 508.namd_r      | 1      | <b><u>196</u></b> | <b><u>4.85</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 510.parest_r    | 1      | <b><u>456</u></b> | <b><u>5.74</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 511.povray_r    | 1      | <b><u>335</u></b> | <b><u>6.98</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 519.lbm_r       | 1      | <b><u>214</u></b> | <b><u>4.93</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 521.wrf_r       | 1      | <b><u>544</u></b> | <b><u>4.12</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 526.blender_r   | 1      | <b><u>262</u></b> | <b><u>5.81</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 527.cam4_r      | 1      | <b><u>244</u></b> | <b><u>7.18</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 538.imagick_r   | 1      | <b><u>393</u></b> | <b><u>6.34</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 544.nab_r       | 1      | <b><u>299</u></b> | <b><u>5.63</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 549.fotonik3d_r | 1      | <b><u>439</u></b> | <b><u>8.87</u></b> |         |       |         |       |        |         |       |         |       |         |       |
| 554.roms_r      | 1      | <b><u>288</u></b> | <b><u>5.53</u></b> |         |       |         |       |        |         |       |         |       |         |       |

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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  
/media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca/home/manavjeet/git/OS/Spec\_OS/bin/sysinfo  
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9  
running on parrot Wed Feb 26 18:22:50 2020

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## Platform Notes (Continued)

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) i5-8300H CPU @ 2.30GHz

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 : 4

siblings : 8

physical 0: cores 0 1 2 3

From lscpu:

Architecture: x86\_64

CPU op-mode(s): 32-bit, 64-bit

Byte Order: Little Endian

Address sizes: 39 bits physical, 48 bits virtual

CPU(s): 8

On-line CPU(s) list: 0-7

Thread(s) per core: 2

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) i5-8300H CPU @ 2.30GHz

Stepping: 10

CPU MHz: 3972.394

CPU max MHz: 4000.0000

CPU min MHz: 800.0000

BogoMIPS: 4599.93

Virtualization: VT-x

L1d cache: 128 KiB

L1i cache: 128 KiB

L2 cache: 1 MiB

L3 cache: 8 MiB

NUMA node0 CPU(s): 0-7

Vulnerability Itlb multihit: KVM: Mitigation: Split huge pages

Vulnerability L1tf: Mitigation; PTE Inversion; VMX conditional cache

flushes, SMT vulnerable

Vulnerability Mds: Mitigation; Clear CPU buffers; SMT vulnerable

Vulnerability Meltdown: Mitigation; PTI

Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via

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## Platform Notes (Continued)

prctl and seccomp  
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user pointer sanitization  
Vulnerability Spectre v2: Mitigation; Full generic retpoline, IBPB conditional, IBRS\_FW, STIBP conditional, RSB filling  
Vulnerability Tsx async abort: Not affected  
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 est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb invpcid\_single pti ssbd ibrs ibpb stibp tpr\_shadow vnmi flexpriority ept vpid ept\_ad fsgsbase tsc\_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel\_pt xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp\_notify hwp\_act\_window hwp\_epp md\_clear flush\_lld

/proc/cpuinfo cache data  
cache size : 8192 KB

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

From /proc/meminfo  
MemTotal: 8074588 kB  
HugePages\_Total: 0  
Hugepagesize: 2048 kB

/usr/bin/lsb\_release -d  
Parrot GNU/Linux 4.8

From /etc/\*release\* /etc/\*version\*  
debian\_version parrot  
os-release:  
PRETTY\_NAME="Parrot GNU/Linux 4.8"  
NAME="Parrot GNU/Linux"  
ID=parrot  
ID\_LIKE=debian  
VERSION="4.8"  
VERSION\_ID="4.8"  
HOME\_URL="https://www.parrotlinux.org/"  
SUPPORT\_URL="https://community.parrotlinux.org/"

uname -a:  
Linux parrot 5.4.0-3parrot1-amd64 #1 SMP Parrot 5.4.13-3parrot2 (2020-02-01) x86\_64 GNU/Linux

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## Platform Notes (Continued)

Kernel self-reported vulnerability status:

CVE-2017-5754 (Meltdown): Mitigation: PTI  
CVE-2017-5753 (Spectre variant 1): Mitigation: usercopy/swapgs barriers and \_\_user pointer sanitization  
CVE-2017-5715 (Spectre variant 2): Mitigation: Full generic retpoline, IBPB: conditional, IBRS\_FW, STIBP: conditional, RSB filling

run-level 5 Feb 25 15:47

SPEC is set to:

/media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca/home/manavjeet/git/OS/Spec\_OS

| Filesystem  | Type | Size | Used | Avail | Use% | Mounted on |
|---|------|------|------|-------|------|------------|
| /dev/sda4   | ext4 | 137G | 93G  | 37G   | 72%  |            |
| /media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca |      |      |      |       |      |            |

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

=====  
CXXC 508.namd\_r(base) 510.parest\_r(base)  
=====

Using built-in specs.

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

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/9/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none:hsa

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'

--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2

--prefix=/usr --with-gcc-major-version-only --program-suffix=-9

--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-plugin --enable-default-pie

--with-system-zlib --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64

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## Compiler Version Notes (Continued)

```
--with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic
--enable-offload-targets=nvptx-none,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
```

Thread model: posix

gcc version 9.2.1 20200203 (Debian 9.2.1-28)

```
=====
CC 511.povray_r(base) 526.blender_r(base)
=====
```

Using built-in specs.

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--prefix=/usr --with-gcc-major-version-only --program-suffix=-9

--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-plugin --enable-default-pie

--with-system-zlib --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multilib --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,hsa --without-cuda-driver

--enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu

--target=x86\_64-linux-gnu --with-build-config=bootstrap-lto-lean

--enable-link-mutex

Thread model: posix

gcc version 9.2.1 20200203 (Debian 9.2.1-28)

Using built-in specs.

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## Compiler Version Notes (Continued)

```
--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-libstdc++-debug --enable-libstdc++-time=yes
--with-default-libstdc++-abi=new --enable-gnu-unique-object
--disable-vtable-verify --enable-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --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,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
```

```
=====
FC 507.cactuBSSN_r(base)
=====
```

```
Using built-in specs.
COLLECT_GCC=/usr/bin/g++
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'
--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2
--prefix=/usr --with-gcc-major-version-only --program-suffix=-9
--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-libstdc++-debug --enable-libstdc++-time=yes
--with-default-libstdc++-abi=new --enable-gnu-unique-object
--disable-vtable-verify --enable-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --enable-objc-gc=auto
--enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64
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--enable-offload-targets=nvptx-none,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
```

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## Compiler Version Notes (Continued)

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--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2
--prefix=/usr --with-gcc-major-version-only --program-suffix=-9
--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-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --enable-objc-gc=auto
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--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
Using built-in specs.
COLLECT_GCC=/usr/bin/gfortran
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'
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--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2
--prefix=/usr --with-gcc-major-version-only --program-suffix=-9
--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-plugin --enable-default-pie
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--enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64
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--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
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```

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gcc version 9.2.1 20200203 (Debian 9.2.1-28)

CC 519.lbm\_r(base) 538.imagick\_r(base) 544.nab\_r(base)

Using built-in specs.

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Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'

--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2

--prefix=/usr --with-gcc-major-version-only --program-suffix=-9

--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-plugin --enable-default-pie

--with-system-zlib --with-target-system-zlib=auto --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,hsa --without-cuda-driver

--enable-checking=release --build=x86\_64-linux-gnu --host=x86\_64-linux-gnu

--target=x86\_64-linux-gnu --with-build-config=bootstrap-lto-lean

--enable-link-mutex

Thread model: posix

gcc version 9.2.1 20200203 (Debian 9.2.1-28)

FC 503.bwaves\_r(base) 549.fotonik3d\_r(base) 554.roms\_r(base)

Using built-in specs.

COLLECT\_GCC=/usr/bin/gfortran

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/9/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none:hsa

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'

--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2

--prefix=/usr --with-gcc-major-version-only --program-suffix=-9

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

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# SPEC CPU2017 Floating Point Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017\_fp\_base = 6.51

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

## Compiler Version Notes (Continued)

```
--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-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --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,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
```

```
=====  
CC 521.wrf_r(base) 527.cam4_r(base)  
=====
```

```
Using built-in specs.
COLLECT_GCC=/usr/bin/gfortran
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'
--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2
--prefix=/usr --with-gcc-major-version-only --program-suffix=-9
--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-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --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,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
```

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# SPEC CPU2017 Floating Point Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017\_fp\_base = 6.51

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

## Compiler Version Notes (Continued)

```
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'
--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2
--prefix=/usr --with-gcc-major-version-only --program-suffix=-9
--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-plugin --enable-default-pie
--with-system-zlib --with-target-system-zlib=auto --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,hsa --without-cuda-driver
--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu
--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean
--enable-link-mutex
Thread model: posix
gcc version 9.2.1 20200203 (Debian 9.2.1-28)
```

## Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both Fortran and C:

gfortran gcc

Benchmarks using both C and C++:

g++ gcc

Benchmarks using Fortran, C, and C++:

g++ gcc gfortran

# SPEC CPU2017 Floating Point Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017\_fp\_base = 6.51

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

## Base Portability Flags

503.bwaves\_r: -DSPEC\_LP64  
507.cactuBSSN\_r: -DSPEC\_LP64  
508.namd\_r: -DSPEC\_LP64  
510.parest\_r: -DSPEC\_LP64  
511.povray\_r: -DSPEC\_LP64  
519.lbm\_r: -DSPEC\_LP64  
521.wrf\_r: -DSPEC\_CASE\_FLAG -fconvert=big-endian -DSPEC\_LP64  
526.blender\_r: -funsigned-char -DSPEC\_LINUX -DSPEC\_LP64  
527.cam4\_r: -DSPEC\_CASE\_FLAG -DSPEC\_LP64  
538.imagick\_r: -DSPEC\_LP64  
544.nab\_r: -DSPEC\_LP64  
549.fotonik3d\_r: -DSPEC\_LP64  
554.roms\_r: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

-m64 -std=c99 -g -O3 -march=native -fno-unsafe-math-optimizations  
-fno-tree-loop-vectorize

C++ benchmarks:

-m64 -std=c++03 -g -O3 -march=native -fno-unsafe-math-optimizations  
-fno-tree-loop-vectorize

Fortran benchmarks:

-m64 -g -O3 -march=native -fno-unsafe-math-optimizations  
-fno-tree-loop-vectorize

Benchmarks using both Fortran and C:

-m64 -std=c99 -g -O3 -march=native -fno-unsafe-math-optimizations  
-fno-tree-loop-vectorize

Benchmarks using both C and C++:

-m64 -std=c++03 -std=c99 -g -O3 -march=native  
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize

Benchmarks using Fortran, C, and C++:

-m64 -std=c++03 -std=c99 -g -O3 -march=native  
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize

# SPEC CPU2017 Floating Point Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017\_fp\_base = 6.51

SPECrate2017\_fp\_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Invalid Result

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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 v1.0.5 on 2020-02-26 18:22:49+0530.

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