SPEC CPU®2017 Floating Point Speed Result Copyright 2017-2020 Standard Performance Evaluation Corporation not applicable SPECspeed®2017_fp_base 0.00SPECspeed®2017 fp Not Run Test Date: Oct-2020 CPU2017 License: nnn (Your SPEC license number) **Test Sponsor:** Hardware Availability: not applicable Software Availability: Tested by: not applicable Threads 603.bwaves_s 607.cactuBSSN_s 619.lbm s 621.wrf_s 627.cam4_s 628.pop2_s 638.imagick_s 644.nab_s 649.fotonik3d_s 654.roms_s Hardware Software OS: Ubuntu 18.04.3 LTS CPU Name: Intel Xeon Bronze 3106 Max MHz: 4.15.0-70-generic Nominal: Compiler: C/C++/Fortran: Version 10.1.0 of GCC, the Enabled: cores, 1 chip, threads/core **GNU** Compiler Collection Orderable: Parallel: Yes Cache L1: Firmware: L2: File System: nfs

Errors

System State:

Base Pointers:

Peak Pointers:

Power Management: --

Other:

'reportable' flag not set during run 644.nab s (base) did not have enough runs! 627.cam4_s (base) did not have enough runs! 638.imagick)s (base) did not have enough runs! 619.lbm_s (vase) did not have enough runs! 607.cactuBSSN_s (base) did not have enough runs! 628.pop2_s (base) did not have enough runs! 649.fotonik3d_s (base) did not have enough runs! 621.wrf_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!

78.334 GB fixme: If using DDR4, the format is:

'N GB (Nx N GB nRxn PC4-nnnnX-X)'

9 TB add more disk info here

(Continued on next page)

Run level 5 (add definition here)

64-bit

Not Applicable

L3:

Other:

Memory:

Storage: **Ø**ther:

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SPECspeed®2017_fp_base =

SPECspeed®2017_fp_peak > Not Run

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Test Date: Oct-2020

0.00

Hardware Availability: Software Availability:

Errors (Continued)

644.nab s (base) had invalid runs!

627.cam4_s (base) had invalid runs!

638.imagick_s (base) had invalid runs!

607.cactuBSSN_s (base) had invalid runs!

628.pop2_s (base) had invalid runs!

649.fotonik3d_s (base) had invalid runs!

621.wrf_s (base) had invalid runs!

654.roms_s (base) had invalid runs!

603.bwaves_s (base) had invalid runs!

Input set must be 'refspeed' for a valid run (set to 'test/for this run)

Run of 603.bwaves_s (base) was not valid; status is **k**E

Run of 607.cactuBSSN_s (base) was not valid; status is RE

Run of 621.wrf_s (base) was not valid; status is CE

Run of 627.cam4 s (base) was not valid; status is RE

Run of 628.pop2_s (base) was not valid; status is RE

Run of 638.imagick_s (base) was not valid; status is RE

Run of 644.nab_s (base) was not valid; status is RE

Run of 649.fotonik3d_s (base) was not valid; status is RE

Run of 654.roms_s (base) was not valid; status is RE

Unknown flags were used! See

https://www.spec.org/cpu2017xpocs/runcpu.html#flagsurl

for information about how to get rid of this error.

Results Table

. /	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s	1	0.342	0.00											
607.cactuBSSN_s	J	0.316	0.00											
619.lbm_s	1	67.4	0.00											
621.wrf_s	1	0.00	0.00											
627.cam4_s	1	0.447	0.00											
628.pop2_s	1	0.482	0.00											
638.imagick_	1	0.319	0.00											
644.nab_s	1	0.269	0.00											
649.fotonik3d_s	1	0.281	0.00											
654.roms_s	1	0.278	0.00											

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SPECspeed®2017_fp_peak = Not Run

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

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SPECspeed®2017_fp_base 0.00

SPECspeed®2017 fp Mot Run

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Software Availability:

Submit Notes

The config file option 'submit' was used.

Environment Variables Notes

Environment variables set by runcpu before the start of the un: LD_LIBRARY_PATH =

"/u/home/schmidtf/riscv-float-toolcham/build/lib64/:/u/home/schmidtf/ri scv-float-toolchain/build/lib/:/lib64"

OMP_STACKSIZE = "120M"

Platform Notes

```
Sysinfo program /u/home/schmidtf/spec/bin/sysinfo
```

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on sksmall Wed Opt 714:23:50 2020

SUT (System Under Test) info/as seem by some common utilities.

For more information, on this section, see

https://www.speg.org/cpu2017/pocs/config.html#sysinfo

From /proc/cpuinfo

model name / Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz

- "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.)

pu cores

siblings

physical 0: cores 0 1 2 3 4 5 6 7

From lscpu:

Architecture: x86_64

CPD op-mode(s): 32-bit, 64-bit Byte Order: Little Endian

CPU(8): On/line CPU(s) list: 0-7 Thread(s) per core: 1 Core(s) per socket: Socket(s): 1 NUMA node(s): 1

Vendor ID: GenuineIntel

CPU family: Model:

Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz Model name:

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not applicable not applicable

Test Date: Oct-2020 Hardware Availability:

0.00

Software Availability:

Platform Notes (Continued)

Stepping: CPU MHz: 1668.056 CPU max MHz: 1700.0000 CPU min MHz: 800.0000 BogoMIPS: 3400.00 Virtualization: v-xLld cache: 32K Lli cache: 32K L2 cache: 1024K L3 cache: 11264K NUMA node0 CPU(s): 0 - 7

Flags:

fpu vme de pse tse 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 dtex64 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_13 cdp_13 invpcid_single pti intel_ppin ssbd mba ibrs ibpb stibp tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmil hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a avx512f avx512dq rdsed ddx smap dfflushopt clwb intel_pt avx512cd avx512bw avx512vl xsaveopt xsavec_xgetbvl xsaves_cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local

dtherm arat plx pts hwp hwp lact window hwp pkg req pku ospke md_clear flush_lld

/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

MenTotal: 82139464 kB HugePages_Total: 0 Hugepagesize: 2048 kB

usr/bin/lsb_release -d Ubuntu 18,04.3 LTS

From /ecc/*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/"

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KVM: Mitigation: Split huge pages

cache flushes, SMT disabled

Mitigation: PTI

via prctl and seccomp

pointer sanitization

Witigation: PTE Inversion; VMX: conditional

Mitigation: Clear CPU buffers; SMT disabled

Mitigation: usercopy/swapgs barriers and __user

Mitigation: Clear CPU buffers; SMT disabled

Type Size Used Avail Use% Mounted

Mitigation: Full generic retpoline, IBPB: conditional, IBRS_FW, STIBP: disabled, RSB

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Software Availability:

0.00

Platform Notes (Continued)

SUPPORT_URL="https://help.ubuntu.com/'

uname -a:

Linux sksmall 4.15.0-70-generic #79-pbuntu 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 Fau(1t):

Microarchitectural Data Sampling: CVE-2017-5754 (Meltdown):

CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled

CVE-2017-5753 (Spectre variant 1);

CVE-2017-5715 (Spectre variant 2):

tsx_async_abort:

run-level 5 Nov 28 09 46

SPEC is set to / /u/home/schmidtf/spec

Filesystem/

6.9T 4.2T 2.5T 63% /u/home nasil10.informatik.tu-muenchen.de:/srv/il10/home nfs

filling

From /sys/devices/virtual/dmi/id

BIOS HPE U32/11/13/2019

Vendor: HPE

Product: ProLyant DL360 Gen10

Product Family: ProLiant

Cannot run dindecode; consider saying (as root)

chinod +s/usr/sbin/dmidecode

(End of data from sysinfo program)

Compiler Version Notes

619.lbm_s(base) 638.imagick_s(base) 644.nab_s(base)

Using built-in specs.

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SPECspeed®2017_fp_base

SPECspeed®2017 fp Mot Run

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0.00

Software Availability:

```
Compiler Version Notes (Continued)
COLLECT_GCC=/u/home/schmidtf/riscv-float-toolchain/build/bir/riscv64-unknown-linux-gnu-gcc
COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-float-toolchain/build/libexec/gcc/riscv64unknown-linux-gnu/10.1.0/lto-wrapper
Target: riscv64-unknown-linux-gnu
Configured with: /u/home/schmidtf/riscv-float-toolchain/riscv-ggc/configure
  --target=riscv64-unknown-linux-gnu
  --prefix=/u/home/schmidtf/riscv-float-toolchain/build
  --with-sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
  --with-system-zlib --enable-shared --enable-tls
  --enable-languages=c,c++,fortran --disable-libssp
  --disable-libquadmath --disable-libsanitizer --disable-nls
  --disable-bootstrap --src=.././riscy-gcc\--disable/multilib
  --with-abi=lp64d --with-arch=rv64imafd --with-tung=rocket
                            -mcmodel_medlow' 'CXXFLAGS_FOR_TARGET=-02
  'CFLAGS_FOR_TARGET=-02
  -mcmodel=medlow'
Thread model: posix
Supported LTO compression algorithms zlib
gcc version 10.1.0 (GCC)
C++, C, Fortran | 607, cactuB$$N_s(base)
Using built-in specs.
COLLECT_GCC=/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-g++
COLLECT_LTO_WRAPPER=/x/lome/schm\dtf/riscv-float-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper
Target: riscv64-unknown-linux-gnu
Configured with: /u/home/schmidtf/riscv-float-toolchain/riscv-gcc/configure
  --target=riscv64-unknown linux-gnu
  --prefix=/u/home/schmidtf/riscv-float-toolchain/build
  --with-sysroct=Xu/home/schmidtf/riscv-float-toolchain/build/sysroot
  --with-system-zlib--enable-shared --enable-tls
  --enable-languages-c,c++,fortran --disable-libmudflap --disable-libssp
   -disable-libquadmath --disable-libsanitizer --disable-nls
  --disable-bootstrap --src=.././riscv-gcc --disable-multilib
   -with-abi=lp64d --with-arch=rv64imafd --with-tune=rocket
  'CRLAGS FOR TARGET=-02
                          -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02
  -mcmodel=medlow'
Thread model: posix
Supported/LTO compression algorithms: zlib
gcc version 10.1.0 (GCC)
Using built-in specs.
COLLECT_GCC=/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc
COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-float-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper
Target: riscv64-unknown-linux-gnu
Configured with: /u/home/schmidtf/riscv-float-toolchain/riscv-gcc/configure
  --target=riscv64-unknown-linux-gnu
  --prefix=/u/home/schmidtf/riscv-float-toolchain/build
```

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0.00

Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

```
--with-sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
```

- --with-system-zlib --enable-shared --enable-tls
- --enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp
- --disable-libquadmath --disable-libsan tizer --disable-nls
- --disable-bootstrap --src=.././riscv-gec --disable-multilib
- --with-abi=lp64d --with-arch=rv64imafd --with-tune=rocket
- 'CFLAGS_FOR_TARGET=-02 -mcmodel=medlow' CXXFLAGS_FOR_TARGET=-02
- -mcmodel=medlow'

Thread model: posix

Supported LTO compression algorithms: zlib

gcc version 10.1.0 (GCC)

Using built-in specs.

COLLECT_GCC=/u/home/schmidtf/riscv-float toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-float-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper

Target: riscv64-unknown-linux-gnu

Configured with: /u/home/schmidtlyriscv-float/toolchain/riscv-gcc/configure

- --target=riscv64-unknown-linux-gnu
- --prefix=/u/home/schmidt//riscv-float-toolchain/build
- --with-sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
- --with-system-zlib --enable-shared / enable-tls
- --enable-languages=g,c++)fortran --disable-libmudflap --disable-libssp
- --disable-libquadmath --disable-libsanitizer --disable-nls
- --with-abi=lp64d --with-arch=rv64imafd --with-tune=rocket
- 'CFLAGS_FOR_TARGET=-O2 -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-O2
- -mcmodel=medlow'

Thread model: posix

Supported LTO compression algorithms: zlib

gcc version 10.1.0 (GCC)

Fortran | 603.bwaves_s(base) 649.fotonik3d_s(base) 654.roms_s(base)

Using built-in specs.

COLLECT_GSC=/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran COLLECT_LNO_WRAPPER=/u/home/schmidtf/riscv-float-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: hiscv64-unknown-linux-gnu

Configured with: /u/home/schmidtf/riscv-float-toolchain/riscv-gcc/configure

- --target=riscv64-unknown-linux-gnu
- --prefix=/u/home/schmidtf/riscv-float-toolchain/build
- --with-sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
- --with-system-zlib --enable-shared --enable-tls
- --enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp
- --disable-libquadmath --disable-libsanitizer --disable-nls
- --disable-bootstrap --src=.././riscv-gcc --disable-multilib
- --with-abi=lp64d --with-arch=rv64imafd --with-tune=rocket

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Tested by:

SPECspeed®2017_fp_base =

SPECspeed®2017_fp_peak > Not Run

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Test Date: Oct-2020

0.00

Hardware Availability: Software Availability:

```
Compiler Version Notes (Continued)
```

```
-mcmodel=medlow' 'CXXFLAGS_FOR TARGET=-02
  'CFLAGS_FOR_TARGET=-02
  -mcmodel=medlow'
Thread model: posix
Supported LTO compression algorithms: zl/b
gcc version 10.1.0 (GCC)
_____
            | 627.cam4_s(base) 628.pop2_s(base)
Fortran, C
Using built-in specs.
COLLECT_GCC=/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran
\texttt{COLLECT\_LTO\_WRAPPER=/u/home/schmidtf/riscr-float-loolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper}
Target: riscv64-unknown-limux-gru
Configured with: /u/home/schmidtf/riscv-float-loolchain/riscv-gcc/configure
  --target=riscv64-unknown-linux-gnu
  --prefix=/u/home/schmidtf/riscv-Noat-tootchain/build
  --with-sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
  --with-system-zlib --enable-shared --enable-tls
  --enable-languages=c, d++, fortxan -- tisable-libmudflap --disable-libssp
  --disable-libquadmath --disable-libsanitizer --disable-nls
  --disable-bootstrap (--src=. //./piscv-gcc --disable-multilib
  --with-abi=lp64d -with-arch=rv64imafd --with-tune=rocket
  'CFLAGS FOR TARGET=-02
                          -mcmodel=medlow' 'CXXFLAGS FOR TARGET=-02
  -mcmodel=medløw'
Thread model: posix
Supported LTO compression algorithms: zlib
gcc version 10.1.0 (GCC)
Using built-in specs.
COLLECT GC=/uXhome/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc
COLLECT_I/TO_WRAPPER=/u/home/sonmidtf/riscv-float-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper
Target riscv64-unknown-linux-gnu
Configured with: /d/home/schmidtf/riscv-float-toolchain/riscv-gcc/configure
  --target=riscv64-unknown-linux-gnu
  -prefix=/u/høme/schmidtf/riscv-float-toolchain/build
  --with sysroot=/u/home/schmidtf/riscv-float-toolchain/build/sysroot
  --with-system-zlib --enable-shared --enable-tls
  --enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp
  --disable-libquadmath --disable-libsanitizer --disable-nls
  --disable-bootstrap --src=.././riscv-gcc --disable-multilib
  --with-abi=lp64d --with-arch=rv64imafd --with-tune=rocket
  'CFLAGS_FOR_TARGET=-O2 -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-O2
  -mcmodel=medlow'
Thread model: posix
Supported LTO compression algorithms: zlib
gcc version 10.1.0 (GCC)
```

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Test Sponsor:

Tested by:

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SPECspeed®2017_fp_peak >7 Not Run

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Test Date: Oct-2020 Hardware Availability:

0.00

Software Availability:

Base Unknown Flags

603.bwaves_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in FC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

607.cactuBSSN_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX)
"/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CC)
"/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in FC)
"/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

619.lbm_s: "/u/home/schmidtf/riscv-float_toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

627.cam4_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in FC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

628.pop2_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in FC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

638.imagick_s: "/u/home/schmidtf/rigcv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CC)
"/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

644.nab_s: "/u/home/schmidtf\tiscv-Noat-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf\tiscv-Noat-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

649.fotonik3d_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in FC) "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

654.roms_s: "/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in FC)
//u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

Base Compiler Invocation

C benchmarks:

)/

Fortran benchmarks:

qfortran

Benchmarks using both Fortran and C (except as noted below): gfortran gcc

Benchmarks using Fortran, C, and C++:

q++ qcc qfortran

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SPECspeed®2017_fp_peak > Not Run

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Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Oct-2020

Hardware Availability: Software Availability:

Base Portability Flags

603.bwaves_s: -static(*) -DSPEC_LP64
607.cactuBSSN_s: -static(*) -DSPEC_LP64
619.lbm_s: -static(*) -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.

Base Optimization Flags

C benchmarks:

-std=c99 -g -O3 -DSPEC_suppress OPENMP/-fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

Fortran benchmarks:

-DSPEC_SUPPRESS_OPENMP -g -03 -fro-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

Benchmarks using both Fortran and C

627.cam4_s:-std=c99 -DSPEC_SUPPRESS_OPENMP -g -O3 -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

 $628.\text{pop}2_s$: Same as $627.\text{cam}4_s$

Benchmarks using Fortran, C, and C++:

- -std=c++03 -std=c99 -g -O3 -DSPEC_SUPPRESS_OPENMP
- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

Base Other Flags

C benchmarks:

-fcommon -fallow-argument-mismatch

Fortran benchmarks:

-fcommon -fallow-argument-mismatch

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not applicable

SPECspeed®2017_fp_base =

SPECspeed®2017_fp_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: not applicable **Tested by:** not applicable

Test Date: Oct-2020

0.00

Hardware Availability: Software Availability:

Base Other Flags (Continued)

Benchmarks using both Fortran and C (except as noted below)

-fcommon -fallow-argument-mismatch

Benchmarks using Fortran, C, and C++:

-fcommon -fallow-argument-mismatch

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

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