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: CPU2017 License: nnn (Your SPEC license number) Nov-2020 **Test Sponsor:** not applicable Hardware Availability: Software Availability: Tested by: not applicable **Threads** 0 0.00300 0.00700 0.0110 0.0150 0.0430 0.0470 0.0510 0.0560 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 PECspeed®2017_fp_base (0.00) 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 L3: System State: Run level 5 (add definition here) Base Pointers: 64-bit Other: 78.334 GB fixme: If using DDR4, the format is: Peak Pointers: Not Applicable Memory: 'N GB (Nx N GB nRxn PC4-nnnnX-X)' Other: 9 TB add more disk info here Power Management: --Storage: **Ø**ther:

Errors

654.roms_s (base) did not have enough runs! 644.nab_s (base) did not have enough runs! 619.lbm_s (base) did not have enough runs! 621.wrf_s (base) did not have enough runs! 607.cactuBSSN_s (base) did not have enough runs! 627.cam4 s (base) did not have enough runs!

'reportable' flag not set during run

603.bwaves_s (base) did not have enough runs!

638.imagick_s (base) did not have enough runs!

649.fotonik3d_s (base) did not have enough runs!

628.pop2 s (base) did not have enough runs!

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed[®]2017 fp base = 0.00

SPECspeed®2017_fp_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

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

Test Date:

Nov-2020

Hardware Availability: Software Availability:

Errors (Continued)

638.imagick_s (base) had invalid runs!

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

Unknown flags were used! See

https://www.spec.org/cpu2017/Docs/runcpu.html#flagsvrt for information about how to get rid of this error.

Results Table

	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Katio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s					$\langle \rangle$									
607.cactuBSSN_s														
619.lbm_s														
621.wrf_s)/								
627.cam4_s						S'								
628.pop2_s														
638.imagick_s	1	261524	0.00		NV	1								
644.nab_s		^	\cup /											
649.fotonik3d_s														
654.roms_s		*//												

SPECspeed®201//_fp_base

0.00

SPECspeed®2017_fp_peak = \Not Run

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.

Environment Variables Notes

Environment variables set by runcpu before the start of the run:

"/u/home/schmidtf/riscv-float-toolchain/build/lib64/:/u/home/schmidtf/riscv-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

(Continued on next page)

Page 2

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

Test Sponsor:

Tested by:

SPECspeed®2017_fp_base 0.00

SPECspeed®2017 fp Mot Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable Test Date: Nov-2020

Hardware Availability: Software Availability:

```
Platform Notes (Continued)
```

```
running on sksmall Thu Nov 19 07:40:02 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 1106 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
```

x86_64

From lscpu:

Architecture:

```
CPU op-mode(s):
                       32-bit, 64-bi
Byte Order:
                      Liftle English
                      8
CPU(s):
On-line CPU(s)
                      0
Thread(s) per
Core(s) per sock
Socket(s)/
                      1
NUMA node(s):
                      1
Vendor ID:
                      GenuineIntel
CPU family:
Model:
Model name:
```

Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz \$temping:

CPU MNz: 1184.569 CPU max MHz: 1700.0000 CPU min MHz 800.0000 RogoMIPS: 3400.00 Virtualization: v-xMd cache: 32K L11 gache: 32K L2/cache: 1024K L3 cache: 11264K NUMA node0 CPU(s): 0 - 7

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_13 cdp_13

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

Test Sponsor:

Tested by:

SPECspeed®2017_fp_base =

)/

0.00

SPECspeed®2017_fp_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable

Test Date: Nov-2020

Hardware Availability: Software Availability:

Platform Notes (Continued)

invpcid_single pti intel_ppin ssbd mba ibrs ibpb stibe tpr_shadow vnmi flexpriority ept vpid fsgsbase tsc_adjust bmil hle avx2 smep bmil erms invpcid rtm cqm mpx rdt_a avx512f avx512dq rdseed adx smap clflushopt clwb intel_pt avx812cd avx512bw avx512vl xsaveopt xsavec xgetbvl xsaves cqm_llc cqm_occup_llc cqm_wbm_total cqm_mbm_local dtherm arat pln pts hwp hwp_act_wiadow kwp_pkg_req pku bspke 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
```

MemTotal: 82139464 kB HugePages_Total: 0 Hugepagesize: 2048 kB

/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_LD="18.04"
HOME_URL="https://www.ubuntu.com/"
SURPORT_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_multinit:

CVE-2018-3620 (L1 Terminal Fault):

Mitigation: PTE Inversion; VMX: conditional cache flushes, SMT disabled

Microarchitectural Data Sampling:

CVE-2017-5754 (Meltdown):

CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled via prctl and seccomp

CVE-2017-5753 (Spectre variant 1):

Mitigation: Speculative Store Bypass disabled via prctl and seccomp

Mitigation: usercopy/swapgs barriers and __user pointer sanitization
```

Copyright 2017-2020 Standard Performance Evaluation Corporation

not applicable

SPECspeed®2017_fp_base

SPECspeed®2017 fp Mot Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable

Test Date: Nov-2020 Hardware Availability:

0.00

Software Availability:

Size Used Avail Use% Mounted

Platform Notes (Continued)

CVE-2017-5715 (Spectre variant 2):

Mitigation Full generic retpoline, IBPB: conditional, IBRS FW, STIBP: disabled, RSB

filling

tsx_async_abort:

Mitigation: Clear CPV buffers; SMT disabled

run-level 5 Nov 28 09:46

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

Filesystem

on

Test Sponsor:

Tested by:

nasil10.informatik.tu-muenchen.de;/srv/il10/homg 6.9T 4.4T 2.3T 67% /u/home

From /sys/devices/virtual/dmi/id

BIOS: HPE U32 11/1/272019

Vendor: HPE

Product: ProLiant DL360 Gen10

Product Family: ProLiant

Cannot run dmidecode; consider saying

chmod +s /usr/sbin/dmidedode

(End of data from sysinfo program

Compiler Version Notes

638.imagick_s(base)

Using built-in specs.

COLLECT_CC_C=/u/home/schmidtf/riscv-float-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc

Target: riscv64-unknown-linux-gnu

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

--target=riscv64-unknown-linux-gnu

- prefix=/u/nome/schmidtf/riscv-float-toolchain/build

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

--with system-zlib --enable-shared --enable-tls

--enable-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=-02 -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02

-mcmodel=medlow'

Thread model: posix

Supported LTO compression algorithms: zlib

gcc version 10.1.0 (GCC)

Copyright 2017-2020 Standard Performance Evaluation Corporation

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: Nov-2020

0.00

Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

Base Unknown Flags

638.imagick_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)

Base Runtime Environment

C benchmarks:

638.imagick_s: No flags used

Base Compiler Invocation

C benchmarks:

638.imagick_s: gcc

Base Portability Flags

638.imagick :-static(*) -DSPEC_LP64

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

Base Optimization Flags

C benchmarks:

638.imagick_s: -std=c99 -O3 -DSPEC_SUPPRESS_OPENMP -fno-unsafe-math-optimizations -fno-openmp

Copyright 2017-2020 Standard Performance Evaluation Corporation

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

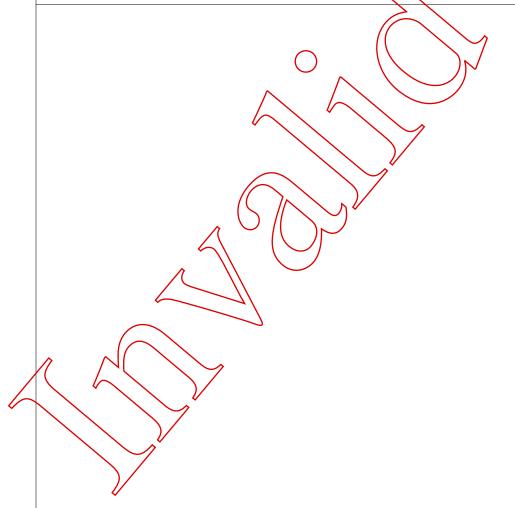
Test Date: Nov-2020

Hardware Availability: Software Availability:

Base Other Flags

C benchmarks:

638.imagick_s: -fcommon -fallow-argument-mismatch



SPEC CPU and SPECspeed are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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

Tested with SPEC CPU*2017 v1.1.0 on 2020-11-19 07:40:00+0000.

Report generated on 2020-11-22 08:19:00 by CPU2017 PDF formatter v6255.