

602.gcc s (base) did not have enough runs! 657.xz\_s (base) did not have enough runs! 623.xalancbmk\_s (base) did not have enough runs! 631.deepsjerig\_s (base) did not have enough runs! 641.leela\_s (base) did not have enough runs! 605.mcf\_s (base) did not have enough runs! 600.perlbench\_s (base) did not have enough runs! 625.x264\_s (base) did not have enough runs! 620.omnetpp\_s (base) did not have enough runs!

648.exchange2 s (base) did not have enough runs!

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# not applicable

SPECspeed®2017\_int\_base

SPECspeed®2017 int peak 7 **Mot Run** 

CPU2017 License: nnn (Your SPEC license number)

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

Test Date: Oct-2020 Hardware Availability:

Software Availability:

### **Errors** (Continued)

Unknown flags were used! See

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

#### Results Table

	Base							\\ \frac{1}{2}	Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	
600.perlbench_s				$\bigcirc$				2							
602.gcc_s	1	<u>8879</u>	0.448				$\Big)$								
605.mcf_s					$\langle \rangle$										
620.omnetpp_s							_								
623.xalancbmk_s	1	4433	<u>0.320</u>				/								
625.x264_s						)/									
631.deepsjeng_s	1	<u>10317</u>	0.139			) ×									
641.leela_s															
648.exchange2_s					N										
657.xz_s		n	$\bigcup \mathcal{A}$												

SPECspeed®2017\_int\_base = 0.2710

SPECspeed®2017\_int\_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: D NBRARY PATH

/u/home/s/hmidtf/riscv-gnu-toolchain/build/lib64/:/u/home/schmidtf/risc v-qnu-todichain/build/lib/:/lib64"

#### **Platform Notes**

Sysinfo program /u/home/schmidtf/spec/bin/sysinfo Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011 running on sksmall Tue Oct 6 16:53:48 2020

SUT (System Under Test) info as seen by some common utilities. For more information on this section, see

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SPECspeed®2017\_int\_base

SPECspeed®2017\_int Mot Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable Test Date: Oct-2020

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

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

#### From lscpu:

**Test Sponsor:** 

**Tested by:** 

Architecture: <del>38</del>6 64-bit CPU op-mode(s): 32-bit, Byte Order: Little Endian

CPU(s):

On-line CPU(s) list; Thread(s) per core

Core(s) per socket 8

Socket(s):

NUMA node(s): Vendor ID: Genuine Intel

CPU family; Model:

Model name:

Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz

Stepping:

1697.927 CPU MHz: 1700.0000 CPU max MNz: CPU min MHz 800.0000 Bog dMIPS: 3400.00 Wirtualizati x-TVLld cache: 32K Lli cache: 32K

L2 cache: 1024K 11264K L3 cache

NUMA nøde0 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 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 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

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**Test Sponsor:** 

**Tested by:** 

SPECspeed<sup>®</sup>2017 int\_base = 0

SPECspeed®2017\_int\_peak > Not Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable

Test Date: Oct-2020

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

dtherm arat pln pts hwp hwp\_act\_window hwp\_pkg\_xeq pku ospke md\_clear flush\_lld

/proc/cpuinfo cache data cache size : 11264 KB

From numactl --hardware WARNING: a numactl 'hode' 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\_ZD="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 GNU/Linux

Kernel self-keported vulnerability status:

itlb\_multihit: KVM: Mitigation: Split huge pages

CVE 2018-3620 (L1 Terminal Fault): Mitigation: PTE Inversion; VMX: conditional

cache flushes, SMT disabled icroarchitectural Data Sampling: Mitigation: Clear CPU buffers; SMT disabled

Microarchitectural Data Sampling: Mitigation: Clear CVE-2017/5754 (Meltdown): Mitigation: PTI

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

via prctl and seccomp

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: disabled, RSB

illing

tsx\_async\_abort: Mitigation: Clear CPU buffers; SMT disabled

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# not applicable

SPECspeed®2017\_int\_base = 0.2

SPECspeed®2017\_int\_peak 7 Not Run

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

Test Date: Oct-2020 Hardware Availability: Software Availability:

Used Avail Use% Mounted

#### Platform Notes (Continued)

run-level 5 Nov 28 09:46

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

on

nasil10.informatik.tu-muenchen.de:/srv/jj10/home nfs 6.9T 4.2T 2.5T 63% /u/home

Type

From /sys/devices/virtual/dmi/id

BIOS: HPE U32 11/13/2019

Vendor: HPE

Product: ProLiant DL360 Gen10

Product Family: ProLight

Cannot run dmidecode; consider saying (as root

chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

#### Compiler Version Notes

602.gcc\_s(base) Using built-in/specs COLLECT\_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc COLLECT\_LTO\_WRAPPER=/u/home/schmidtf\riscy-gnu-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-qnu Configured with: \u/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure --target=riscv64-unknown-linux-gnu --prefix /u/home/sghmidtf/riscv-gnu-toolchain/build --with-systoot=/w/home/schmidtf/riscv-gnu-toolchain/build/sysroot -with-system-zlib --enable-shared --enable-tls --enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp -disable-lipquadmath --disable-libsanitizer --disable-nls --disable-botstrap --src=.././riscv-gcc --disable-multilib --with-abi=lp64 --with arch=rv64ima --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) \_\_\_\_\_\_ C++ | 623.xalancbmk s(base) 631.deepsjeng s(base)

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SPECspeed®2017\_int\_base

SPECspeed®2017\_int Vot Run

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### Compiler Version Notes (Continued)

Using built-in specs.

**Test Sponsor:** 

**Tested by:** 

COLLECT\_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-g++ COLLECT\_LTO\_WRAPPER=/u/home/schmidtf/riscv-gnu-toolchain/build/libexec/gcc/riscv64-unkerown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-gnu

Configured with: /u/home/schmidtf/riscv/gnu-colchain/riscv-gc/configure

--target=riscv64-unknown-linux-gnu

--prefix=/u/home/schmidtf/riscv-gnu-toolchain/build

--with-sysroot=/u/home/schmidtf/riscv-gru-toolchain/build/sysroot

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

--enable-languages=c,c++,fort(ran) --disable-libmudilab --disable-libssp

--disable-libquadmath --disable-libsanitizer --disable-nls

--disable-bootstrap --srcz.././riscv qcc disable-multilib --with-abi=lp64

--with-arch=rv64ima --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)

## Base Unknown Flags

602.gcc\_s: "/u/home/schmidtyriscvtgnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtfy/risct/gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD)

623.xalancbmk\_s: "/u.chome/schmidd: //riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(inLD)

631.deepsjeng\_s:"/to/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX) /u/home/schmidtf/xiscv-qnu-toolchain/build/bin/riscv64-unknown-linux-qnu-"(in LD)

### **Base Runtime Environment**

C benchmarks

602.gcc\_s: N flags used

### **Base Compiler Invocation**

C benchmarks:

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SPECspeed®2017\_int\_base = 0.2710

SPECspeed®2017\_int\_peak 7 Not Run

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Test Date: Oct-2020 Hardware Availability:

Software Availability:

### **Base Compiler Invocation (Continued)**

602.gcc\_s: qcc

C++ benchmarks (except as noted below):

g++

### Base Portability Flags

602.gcc\_s: -static(\*) -DSPEC\_LP64
623.xalancbmk\_s: -static(\*) -DSPEC\_LINUX -DSPEC\_LP64
631.deepsjeng\_s: -static(\*) -DSPEC\_LP64

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

### **Base Optimization Flags**

#### C benchmarks:

602.gcc\_s:-std=c99 -g -03 -DSPEC\_SUPPRESS\_OPENMP -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp -fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

623.xalancbunk\_s:-std=c++03 -g -03 -DSPEC\_SUPPRESS\_OPENMP -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

631.deepsjengs: Same as 623.xalancbmk\_s

### **Base Other Flags**

#### C benchmarks:

602.gcc\_s: -fcommon -fallow-argument-mismatch

C++ benchmarks (except as noted below):

-fcommon -fallow-argument-mismatch

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SPECspeed<sup>®</sup>2017 int\_base = 0

SPECspeed®2017\_int\_peak Not Run

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