

Errors

'reportable' flag not set during run 623.xalancbink s (base) did not have enough runs! 620.omnetpp_s (base) did not have enough runs! 605.mcf_s (base) did not have enough runs! 648.exchange2_s (base) did not have enough runs! 625.x264_s (base) did not have enough runs! 641.leela_s (base) did not have enough runs! 602.gcc_s (base) did not have enough runs! 631.deepsjeng_s (base) did not have enough runs! 600.perlbench_s (base) did not have enough runs!

657.xz 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: Sep-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							\searrow	Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	
600.perlbench_s	1	<u>12673</u>	<u>0.140</u>	\bigcirc				2							
602.gcc_s	1	<u>10375</u>	0.384				$\Big)$								
605.mcf_s	1	<u>4774</u>	0.989												
620.omnetpp_s	1	10257	0./59				_								
623.xalancbmk_s	1	<u>5285</u>	<u>0.268</u>				1								
625.x264_s	1	<u>4305</u>	<u>0.410</u>)/									
631.deepsjeng_s	1	10327	0.139) ×									
641.leela_s	1	<u>6737</u>	0/253												
648.exchange2_s	1	<u>4807</u>	0.612		N										
657.xz_s	1	13272	0.466												

SPECspeed®2017_int_base = 0.3139

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

variables set by runcpu before the start of the run: Environment 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 Wed Sep 30 13:01:13 2020

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

(Continued on next page)

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

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SPECspeed®2017_int_base

SPECspeed®2017_int Mot Run

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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:

Architecture: 386 CPU op-mode(s):

64-bit 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:

CPU family; Model:

Model name:

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

Genuine Intel

Stepping:

1700.006 CPU MHz: CPU max MNz: 1700.0000 CPU min MHz 800.0000 Bog dMIPS: 3400.00 Wirtualizati x-TV32K

Lld cache: Lli cache: 32K L2 cache: 1024K 11264K L3 cache

NUMA nøde0 CPU(s): 0 - 7fpu 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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SPECspeed[®]2017_int_base =

SPECspeed®2017_int_peak_4 Mot Run

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Test Date: Sep-2020 Hardware Availability:

Software Availability:

Test Sponsor: Tested by: not applicable

Platform Notes (Continued)

dtherm arat pln pts hwp hwp_act_window hwp_pkg_xeq ku ospke md_clear flush_11d

/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

82139464 kE MemTotal: 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 LTE 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 _64 x86_64 GNU/Linux

Rernel self-reported vulnerability status:

itlb_multihit KVM: Mitigation: Split huge pages

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

cache flushes, SMT disabled

Microarchitectural Data Sampling: Mitigation: Clear CPU buffers; SMT disabled

CVE-201**7/**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

Mitigation: Clear CPU buffers; SMT disabled tsx_async_abort:

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SPECspeed®2017_int_base =

SPECspeed®2017_int_peak > Mot Run

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Test Sponsor: not applicable Tested by: not applicable

Test Date: Sep-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

nasil10.informatik.tu-muenchen.de:/srv/j110/home nfs 6.9T 4.1T 2.5T 63% /u/home

Type

From /sys/devices/virtual/dmi/id

BIOS: HPE U32 11/13/201<mark>(</mark>9

Vendor: HPE

Product: ProLiant DL360 Gen10

Product Family: ProLiant

Cannot run dmidecode; consider saying (as

chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

Compiler Version Notes

625.x264_s(base) 657.xz_s(base) Using built-in specs. COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gcc COLLECT_LTO_wkAppEr=xu/home/schmidtf/riscv-gnu-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-gnu Configured with /w/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure --target-riscv64-unknown-linux-gnu --prefix=/ty/home/schmidtf/riscv-gnu-toolchain/build with-sysroot=/u/home/schmidtf/riscv-gnu-toolchain/build/sysroot

600.perlbend_s(base) 602.gcc_s(base) 605.mcf_s(base)

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

- enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp

--disable-Albquadmath --disable-libsanitizer --disable-nls

--disable/bootstrap --src=.././riscv-gcc --disable-multilib --with-abi=lp64

--with-arch=rv64ima --with-tune=rocket 'CFLAGS_FOR_TARGET=-02

-mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02

Thread model: posix

Supported LTO compression algorithms: zlib

gcc version 10.1.0 (GCC)

620.omnetpp s(base) 623.xalancbmk s(base) 631.deepsjeng s(base)

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Test Sponsor:

Tested by:

SPECspeed®2017_int_base = 0.3

SPECspeed®2017_int_peak Not Run

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not applicable not applicable

Test Date: Sep-2020

Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

641.leela_s(base) Using built-in specs. COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscvo4-unknown-linux-gnu-g++ COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscv-gnu-toolcham/build/libexec/gcc/riscv64/ykknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-qnu Configured with: /u/home/schmidtf/riscv-gny colchain/riscv-gcc/configure --target=riscv64-unknown-linux-gnu --prefix=/u/home/schmidtf/riscy-gnu-too chain/build --with-sysroot=/u/home/schmid(f)riscv-gnu 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 --ste-././riscv-gcc --disable-multilib --with-abi=lp64 --with-arch=rv64ima --with-tone=rocket CFLAGS_FOR_TARGET=-02 -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-O2) /-mcmodel=medlow' Thread model: posix Supported LTO compression algorithms: zlip gcc version 10.1.0 (GCC)/ Using built-in specs. COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran COLLECT_LTO_WRAPPER=/u/home/schmidtivriscv-gnu-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: risev64-unknown-linux-gnu Configured with /u/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure --target=riscv64-unknown-linux-gnu --pr∉fix=/u/home/sepmidtf/riscv-gnu-toolchain/build --with sysroot=/w/home/schmidtf/riscv-gnu-toolchain/build/sysroot -with-system-zl\(\frac{1}{2}\)b --enable-shared --enable-tls --enable-languages=c,c++,fortran --disable-libmudflap --disable-libssp -disable-libguadmath --disable-libsanitizer --disable-nls --disable-bootstrap --src=.././riscv-gcc --disable-multilib --with-abi=lp64 --with-arch=rv64ima --with-tune=rocket 'CFLAGS_FOR_TARGET=-02 -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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SPECspeed®2017_int_base = 0.3

SPECspeed®2017_int_peak > Not Run

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

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

Base Unknown Flags

 $600.perlbench_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)$

602.gcc_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

605.mcf_s: "/u/home/schmidtf/riscv-gnu-toolchain/puild/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv647unknown-linux-gnu-" (in LD)

620.omnetpp_s: "/u/home/schmidtf/riscv-ghu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscy64-unknown-linux-gnu-" (in LD)

623.xalancbmk_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

625.x264_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

631.deepsjeng_s: "/u/home/schmidtf(riscy qnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscy-qnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

641.leela_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

 $648. exchange 2_s: "/u/pome/schmidt/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in FC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)$

657.xz_s: "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

q++

Fortran benchmarks:

gfortran

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SPECspeed®2017_int_base = 0.313

SPECspeed®2017_int_peak 7 Not Run

CPU2017 License: nnn (Your SPEC license number)

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

Test Date: Sep-2020

Hardware Availability: Software Availability:

Base Portability Flags

600.perlbench_s: -static(*) -DSPEC_LINUX_X64 -DSPEC_LP64
602.gcc_s: -static(*) -DSPEC_LP64
605.mcf_s: -static(*) -DSPEC_LP64
620.omnetpp_s: -static(*) -DSPEC_LP64
623.xalancbmk_s: -static(*) -DSPEC_LINUX -DSPEC_LP64
625.x264_s: -static(*) -DSPEC_LP64
631.deepsjeng_s: -static(*) -DSPEC_LP64
641.leela_s: -static(*) -DSPEC_LP64
648.exchange2_s: -static(*) -DSPEC_LP64
657.xz_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-penmp -fno-strict-aliasing
- -fgnu89-inline

C++ benchmarks:

- -std=c++03 -g -Ø3 -DSPEC_SUPPRESS_OPENMP
- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

Fortran benchmarks:

- -DSPEC_SUPPRESS OPENMP -g -03 -fno-unsafe-math-optimizations
- -fno-tree-loop-vectorize -fno-openmp

Base Other Flags

C benchmarks:

-fcommon -fallow-argument-mismatch

C++ benchmarks:

-fcommon -fallow-argument-mismatch

Fortran benchmarks:

-fcommon -fallow-argument-mismatch

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SPECspeed®2017_int_base = 0.31

SPECspeed®2017_int_peak Not Run

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Test Date: Sep-2020 Hardware Availability:

Software Availability:

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