

Errors

Peak Pointers:

Power Management: --

Other:

Not Applicable

'reportable' flag not set during run 623.xalancbmk_s (base) did not have enough runs! 641.leela_s(base) did not have enough runs! 657.xz_s (base) did not have enough runs! 602.gcc_s (base) did not have enough runs! 625.x264_s (base) did not have enough runs! 648.exchange2 s (base) did not have enough runs! 600.perlbench_s (base) did not have enough runs! 631.deepsjeng_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!

(Continued on next page)

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

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

TB add more disk info here

Memory:

Storage:

Other:

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SPECspeed®2017_int_base

1.05

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 | | | | | | | \\ \n | Peak | | | | | |
|-----------------|---------|--------------|--------------|------------|-------------------|---------|---------|---------|---------|-------|---------|-------|---------|-------|
| Benchmark | Threads | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Threads | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio |
| 600.perlbench_s | 1 | <u>2222</u> | <u>0.799</u> | \bigcirc | | | | 2 | | | | | | |
| 602.gcc_s | 1 | <u>1956</u> | 2.04 | | | | $\Big)$ | | | | | | | |
| 605.mcf_s | 1 | <u>2695</u> | 1.75 | | $\langle \rangle$ | | | | | | | | | |
| 620.omnetpp_s | 1 | <u>1768</u> | 0.922 | | | | _ | | | | | | | |
| 623.xalancbmk_s | 1 | <u>1178</u> | <u>1.20</u> | | | | 7 | | | | | | | |
| 625.x264_s | 1 | <u>2590</u> | <u>0.681</u> | | |)/ | | | | | | | | |
| 631.deepsjeng_s | 1 | <u>1603</u> | 0.894 | | | Ý | | | | | | | | |
| 641.leela_s | 1 | <u>2080</u> | 0.820 | | | | | | | | | | | |
| 648.exchange2_s | 1 | <u>1575</u> | 1.87 | | \J \/ | | | | | | | | | |
| 657.xz_s | 1 | <u>11083</u> | 0.558 | | | | | | | | | | | |

SPECspeed®2017_int_base = 1.05

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 Wed Oct 14 18:44:12 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

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Oct-2020

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Test Date: Hardware Availability: Software Availability: not applicable

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
```

Genuine Intel

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: 386

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: CPU family;

Model:

Model name:

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

1700.003 CPU MHz:

CPU max MNz: 1700.0000 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 Date: Oct-2020

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Hardware Availability: Software Availability:

Platform Notes (Continued)

dtherm arat pln pts hwp hwp_act_window hwp_pkg_req 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:

CVE-2017-5715 (Spectre variant 2):

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-2017/5754 (Meltdown): Mitigation: PTI

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

via picci and seccomp

CVE-2017-5753 (Spectre variant 1): Mitigation: usercopy/swapgs barriers and __user pointer sanitization

Mitigation: Full generic retpoline, IBPB:

conditional, IBRS_FW, STIBP: disabled, RSB

filling

tsx_async_abort: Mitigation: Clear CPU buffers; SMT disabled

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

Used Avail Use% Mounted

1.05

Platform Notes (Continued)

run-level 5 Nov 28 09:46

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

on

nasil10.informatik.tu-muenchen.de:/srv/jj10/home nfs 6.9T 4.2T 2.4T 64% /u/home

Type

From /sys/devices/virtual/dmi/id

BIOS: HPE U32 11/13/2019

Vendor: HPE

Product: ProLiant DL360 Gen10

Product Family: ProLiant

Cannot run dmidecode; consider saying (as root

chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

Compiler Version Notes

600.perlbend_s(base) 602.gcc_s(base) 605.mcf_s(base) 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 --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 Date: Oct-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 --sme=././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=-02 -mcmodel=medlow' Thread model: posix Supported LTO compression algorithms: zlib gcc version 10.1.0 (GCC)

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Test Date: Oct-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)

 $648. exchange 2_s: "/u/pome/schmidt1/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in FC) "/u/home/schmidt1/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD)$

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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CPU2017 License: nnn (Your SPEC license number)

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

Test Date: Oct-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 -03 -DSPEC_SUPERESS_PENMP fto-unsafe-math-optimizations
- -fno-openmp -fno-strict-allaging -fgnu89-inline

C++ benchmarks:

-std=c++03 -O3 -DSPEC_SUPPRESS OPENMP -fno-unsafe-math-optimizations -fno-openmp

Fortran benchmarks:

-DSPEC_SUPPRESS_OPENMP -03 -fno-unsafe-math-optimizations -fno-openmp

Base Other Flags

C benchmarks:

-frommon -fallow-argument-mismatch

C++ benchmarks:

-fcommon -fallow-argument-mismatch

Fortran benchmarks:

-fcommon -fallow-argument-mismatch

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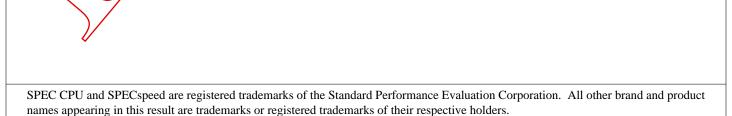
SPECspeed®2017_int_peak 7 Not Run

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

Test Date: Oct-2020

Hardware Availability: Software Availability:



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 2020-10-14 18:44:11+0000.

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