

Errors

Your run was marked invalid because it has one or more flags in the "unknown" category. You might be able to resolve this problem without re-running your test; see

https://www.spec.org/cpu2017/Docs/runcpu.html#flagsurl for more information.

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not applicable

Test Sponsor:

Tested by:

SPECspeed®2017_int_base = 0.

SPECspeed®2017_int_peak Not Run

CPU2017 License: nnn (Your SPEC license number)

not applicable not applicable

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

Results Table

 I	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	1	3045	0.583	<u>3058</u>	<u>0.581</u>					1				
602.gcc_s	1	<u>3391</u>	<u>1.17</u>	3374	1.18	\wedge								
605.mcf_s	1	<u>3230</u>	<u>1.46</u>	3133	1.51)/					
620.omnetpp_s	1	<u>2577</u>	<u>0.633</u>	2568	0.635				V					
623.xalancbmk_s	1	<u>1679</u>	<u>0.844</u>	1675	0.846									
625.x264_s	1	<u>2912</u>	<u>0.606</u>	2912	0.606	/(\searrow						
631.deepsjeng_s	1	<u>2466</u>	<u>0.581</u>	2456	0.583									
641.leela_s	1	3175	0.537	3177	0,537))~						
648.exchange2_s	1	<u>2213</u>	1.33	2213	1.33									
657.xz_s	1	<u>8907</u>	0.694	8899	0.695									

SPECspeed*2017_int_base = 0.7884

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 'stomit' was used

Environment Variables Notes

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

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

Platform Notes

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

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on sksmall Wed Sep 16 13:14:24 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 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.)

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

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

Platform Notes (Continued)

cpu cores : 8 siblings : 8

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

From lscpu:

Architecture: x86 64 32-bit, 64-bit CPU op-mode(s): Byte Order: Little Endian CPU(s):

GenuineIntel

32K

32K

1024K 11264K

On-line CPU(s) list: 0-7 Thread(s) per core:

Core(s) per socket: Socket(s):

NUMA node(s): Vendor ID:

CPU family: 6 Model: 85

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

Stepping: CPU MHz: CPU max MHz: 800.000

CPU min MHz: BogoMIPS: Virtualization:

Lld cache Lli cache: L2 cache: L3 cache:

NUMA node (CPU(s): 0 - 7Flags:

fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov yat pse36 olflash dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp constant_ds/ art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid aperfuperf pri pclmulqdq dtes64 monitor ds_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm cid dca sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16d /drand lahf_lm abm 3dnowprefetch cpuid_fault epb cat_13 cdp_13

invocidatingle pti intel_ppin ssbd mba ibrs ibpb stibp tpr_shadow vnmi flexpriority egt vpjd fsgsbase tsc_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a avx51/2f avx512dq rdseed adx smap clflushopt clwb intel_pt avx512cd avx512bw avx512vl xsarec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local 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 'node' might or might not correspond to a physical chip.

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Platform Notes (Continued)

```
From /proc/meminfo
```

MemTotal: 82139464 kB HugePages_Total: Λ 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 LT\$ (Bionic Beaver)"

ID=ubuntu ID_LIKE=debian PRETTY_NAME="Ubuntu 18.04.3 DTS"

VERSION_ID="18.04"

HOME_URL="https://www.ubuntu.com SUPPORT_URL="https://help.ubuntu com/"

uname -a:

Linux sksmall 4.15.0-70-gener; #79-Ubuntu SMP Tue Nov 12 10:36:11 UTC 2019 x86_64 x86_64 x86_64 GND Linux

Kernel self-reported volnerability status:

itlb_multihit: CVE-2018-3620 (L1 Terminal Fault):

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

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

CVE 2017-5753 (Spectre variant 1):

(Spectre variant 2): CVE 2017-5715

tsx_async_abort:

KVM: Mitigation: Split huge pages

Mitigation: PTE Inversion; VMX: conditional

cache flushes, SMT disabled

Mitigation: Clear CPU buffers; SMT disabled Mitigation: PTI

via prctl and seccomp

Mitigation: usercopy/swapgs barriers and __user pointer sanitization

Mitigation: Full generic retpoline, IBPB:

conditional, IBRS_FW, STIBP: disabled, RSB filling

Mitigation: Clear CPU buffers; SMT disabled

run-level 5 Nov 28 09:46

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

Filesystem Type Size Used Avail Use% Mounted on

(Continued on next page)

nasil10.informatik.tu-muenchen.de:/srv/il10/home nfs

5.5T 4.1T 1.1T 79% /u/home

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

Platform Notes (Continued)

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

chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

Compiler Version Notes

600.perlbench_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/schm/dtf//iscv-gnu-/oolchain/build/bin/riscv64-unknown-linux-gnu-gcc COLLECT_LTO_WRAPPER=/u/home/schmidtf/riscy-gau-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-gnu

Configured with: /u/home/schmidtf/riscv-qnu-toolchain/riscv-qcc/configure

- --target=riscv64-unknown-linux-gnu
- --prefix=/u/home/schmidtf/riscv-gnu-toolchain/build
- --with-sysrogt=/u/homa/schmidtf/riscv-gnu-toolchain/build/sysroot
- --with-system-zlib --enable-shared --enable-tls
- --enable-languages=c,c+t fortran --disable-libmudflap --disable-libssp
- --disable-libquadmath --disable-libsanitizer --disable-nls
- --disable-multilib --with-abi=lp64
- --with arch=rv641ma --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)

620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base) C++

641.leela_s(base)

Using built-in specs.

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-unknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux-gnu

Configured with: /u/home/schmidtf/riscv-gnu-toolchain/riscv-gcc/configure --target=riscv64-unknown-linux-gnu

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Test Sponsor: not applicable Tested by: not applicable Test Date: Sep-2020 Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

- --prefix=/u/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 --dlsable-libssp
- --disable-libquadmath --disable-libsaritizer --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=-01 -mcmodel=medlow'

Thread model: posix

Supported LTO compression algorations: zlip

gcc version 10.1.0 (GCC)

Fortran | 648.exchange2_s(base)

Using built-in specs.

COLLECT_GCC=/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-gfortran COLLECT_LTO_WRAPPER=/u/home/schmid/f/ricv-gau-toolchain/build/libexec/gcc/riscv64-unknown-linux-gnu/10.1.0/lto-wrapper Target: riscv64-unknown-linux/gnu

Configured with: /u/homevschhidtlyriscv-gnu-toolchain/riscv-gcc/configure

- --target=riscv64-ynknown-linux-ghu
- --prefix=/u/home/schmidtf/risev-gnu-toolchain/build
- --with-sysroot=/u/home/schmidt/riscv-gnu-toolchain/build/sysroot
- --with-system zlib --enable-shared --enable-tls
- --enable-languages=s.c++,fortran --disable-libmudflap --disable-libssp --disable-libquadmath --disable-libsanitizer --disable-nls
- --disable bootstrap --sre=.././riscv-gcc --disable-multilib --with-abi=lp64
- --with-arch=rx64ima --with-tune=rocket 'CFLAGS_FOR_TARGET=-02
- -mcmode = medlow 'CXXFLAGS_FOR_TARGET=-02

Thread/model: posix

Supported LTO compression algorithms: zlib

gcc version 10.1.0 (GCC)

Base Unknown Flags

600.perlbench "/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)
- "-static -fcommon" (in OPTIMIZE)
- "-fno-openmp" (in EXTRA OPTIMIZE)

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)
- "-static -fcommon" (in OPTIMIZE)
- "-fno-openmp" (in EXTRA_OPTIMIZE)

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Test Sponsor:

Tested by:

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0.7884

SPECspeed®2017_int_peak > Not Run

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not applicable not applicable

Test Date: Sep-2020 Hardware Availability:

Software Availability:

Base Unknown Flags (Continued)

605.mcf_s: "/u/home/schmidtf/riscv-gnu-toolchain/Ybuild/bin/riscv64-anknown-linux-gnu-" (in CC) "/u/home/schmidtf/riscv-gnu-toolchain/bu/ld/kin/riscv64-unknown-linux-gnu-"(in LD) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" (in EXTRA OPTIMIZE) 620.omnetpp_s: "/u/home/schmidtf/riscv-qnu-toolchaih/build/bin/riscv64-unknown-linux-qnu-"(in CXX) "/u/home/schmidtf/riscv-gnu-too/Chain/build/bin/riscv6/-unknown-linux-gnu-"(in LD) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" (in EXTRA_OPTIMIZE) 623.xalancbmk_s: "/u/home/schmidtf//iscv_gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX) "/u/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" (in EXTRA_OPTIMIZE) 625.x264_s: "/u/home/schmidtf/r/scv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CC) "/u/home/schmidtf/riscv-ghu-toolchain/brild/bin/riscv64-unknown-linux-gnu-"(in LD) "-static -fcommon" (in OPTIMIXE) "-fno-openmp" (in EXTRA PTIMIZE) 631.deepsjeng_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) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" (in EXTRA_OPTIMIZE) 641.leela_s: "/m/homexschmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in CXX) "/u/home/schmidtfxriscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in LD) -static Hfcommon"(MORTIMIZE) "-fno-penmp" (in EXTRA_OPTIMIZE) 648.exchange2_s: Xu/home/schmidtf/riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-"(in FC) \u/home/schmidt\(\mathbf{f} / \riscv-gnu-toolchain/build/bin/riscv64-unknown-linux-gnu-" (in LD) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" in EXTRA_OPTIMIZE) 657.xz_s:"/u//nome/schmidtf/riscv-qnu-toolchain/build/bin/riscv64-unknown-linux-qnu-"(in CC) "/u/home schmidtf/riscv-qnu-toolchain/build/bin/riscv64-unknown-linux-qnu-"(in LD) "-static -fcommon" (in OPTIMIZE) "-fno-openmp" (in EXTRA_OPTIMIZE)

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SPECspeed®2017_int_base =

SPECspeed®2017_int_peak 7 Not Run

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

Test Date: Sep-2020 Hardware Availability:

Software Availability:

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Base Portability Flags

600.perlbench_s: -DSPEC_LINUX_X64 -DSPEC_LP64

602.gcc_s: -DSPEC_LP64 605.mcf_s: -DSPEC_LP64 620.omnetpp_s: -DSPEC_LP64

623.xalancbmk_s: -DSPEC_LINUX -DSPEC_LP64

625.x264_s: -DSPEC_LP64 631.deepsjeng_s: -DSPEC_LP64

641.leela_s: -DSPEC_LP64

648.exchange2_s: -DSPEC_LP64

657.xz_s: -DSPEC LP64

Base Optimization Flags

C benchmarks

-std=c99 g -03 DSPEC_SUPPRESS_OPENMP -fno-unsafe-math-optimizations fno-uree-loop-vectorize -fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

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

Fortran benchmarks:

- -DSPEC SUPPRESS OPENMP -q -03 -fno-unsafe-math-optimizations
- -fno-tree-loop-vectorize

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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 2020-09-16 13:14:23+0000.

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