SPEC CPU®2017 Integer Speed Result Copyright 2017-2020 Standard Performance Evaluation Corporation not applicable SPECspeed®2017_int_base **0.2**830 SPECspeed®2017_int Vot Run Test Date: CPU2017 License: nnn (Your SPEC license number) Oct-2020 **Test Sponsor:** not applicable Hardware Availability: Software Availability: Tested by: not applicable 0.190 0.205 0.220 0.235 0.250 0.265 0.285 **Threads** 0 0.0150 0.0350 0.0550 0.0750 600.perlbench_s 0.283 602.gcc_s 605.mcf s 620.omnetpp_s 623.xalancbmk_s 625.x264 s 631.deepsjeng_s 641.leela s 648.exchange2_s 657.xz_s SRECspeed®2017_int_base (0.2830) Hardware Software OS: Ubuntu 18.04.3 LTS CPU Name: Intel Xeon Bronze 3106 Max MHz: 4.15.0-70-generic C/C++/Fortran: Version 10.1.0 of GCC, the Nominal: Compiler: 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:

Errors

Other:

Power Management: --

reportable' flag not set during run 600.perlbench_s (base) did not have enough runs! 631.deepsjeng_s (base) did not have enough runs! 657.xz_s (base) did not have enough runs! 641.leela_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! 602.gcc_s (base) did not have enough runs! 623.xalancbmk_s (base) did not have enough runs! 625.x264_s (base) did not have enough runs! 605.mcf_s (base) did not have enough runs!

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

9 TB add more disk info here

(Continued on next page)

Storage:

Other:

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SPECspeed®2017_int_base

0.2830

SPECspeed®2017 int peak 7 **Mot Run**

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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		7(Peak							
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s								\mathbb{N}						
602.gcc_s	1	<u>14072</u>	0.283					//						
605.mcf_s														
620.omnetpp_s							_							
623.xalancbmk_s							/							
625.x264_s														
631.deepsjeng_s						\)\(\)\(\)								
641.leela_s														
648.exchange2_s					77/	1								
657.xz_s		^	$\bigcup \mathcal{A}$											

SPECspeed*2017_int_base = 0.2830

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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 Sat Oct 24 15:29:48 2020

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

(Continued on next page)

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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

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

Genuine Intel

Stepping:

1334.979 CPU MHz: 1700.0000 CPU max MNz: CPU min MHz 800.0000 Bog dMIPS: 3400.00 x-TV

Wirtualizati Lld 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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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

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

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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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/j110/home nfs 6.9T 4.4T 2.3T 66% /u/home

Type

From /sys/devices/virtual/dmi/id

BIOS: HPE U32 11/13/2019

Vendor: HPE

Product: ProLiant DL36 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

C | 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/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=riscx64-unknown-linux-gnu
- --prefix /u/home/sghmidtf/riscv-gnu-toolchain/build
- --with-systoot=/whome/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-cotstrap --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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Base Unknown Flags

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

Base Runtime Environment

C benchmarks:

602.gcc_s: No flags used

Base Compiler Invocation

C benchmarks:

602.gcc_s: gcc

Base Portability Flags

602.gcc_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=cy9 -O3 -DSPEC_SUPPRESS_OPENMP

- -fno-unsake-math-optimizations -fno-openmp -fno-strict-aliasing
- -fgnu89-inline

Base Other Flags

C benchmarks:

 $602.gcc_s: \verb|-fcommon-fallow-argument-mismatch|$

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