SPEC® CPU2017 Integer Speed Result Copyright 2017-2023 Standard Performance Evaluation Corporation sipeed SPECspeed2017_int_base 0.00(Test Sponsor: PLCT) SPECspeed2017_int_peak 0.00CPU2017 License: 0 Test Date: Nov-2023 Hardware Availability: May-2023 **Test Sponsor: PLCT Software Availability:** Nov-2023 **Tested by: PLCT** Threads 600.perlbench_s 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 Hardware **Software** CPU Name: TH1520 OS: Debian GNU/Linux 12 (bookworm) Max MHz.: 2000MHz 5.10.113+Compiler: Debian clang version 17.0.0 (+rc4-1~exp5revyos1) Nominal: 2000MHz Parallel: Enabled: 4 cores, 1 chip Yes Firmware: Nov-2022 Orderable: 🗘 ache L1: 64 KB I + 64 Kb D on chip per core File System: ext4 L2: 1MB L2 Cache for all core System State: Run level 5 (add definition here) L3: None Base Pointers: 64-bit Other: Peak Pointers: 64-bit None 15.370 GB fixme: If using DDR4, the format is: Memory Other: None 'N GB 📈 x N GB nRxn PC4-nnnnX-X)' N5.6B add more disk info here Storage: Other: None **Errors** 'reportable' flag not set during run 620.omnetpp_s (base) did not have enough runs! 605.mcf_s (base) did not have enough runs!

623.xalancbmk_s (base) did not have enough runs! 600.perlbench s (base) did not have enough runs!

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SPECspeed2017_int_base

SPECspeed2017_int

0.00

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Test Date: Nov-2023 Hardware Availability: May-2023 **Software Availability:** Nov-2023

Errors (Continued)

602.gcc s (base) did not have enough runs! 631.deepsjeng_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! 648.exchange2_s (base) did not have enough runs!

657.xz_s (base) did not have enough runs!

620.omnetpp_s (peak) did not have enough runs!

605.mcf_s (peak) did not have enough runs!

623.xalancbmk_s (peak) did not have enough runs!

600.perlbench_s (peak) did not have enough runs!

602.gcc s (peak) did not have enough runs!

631.deepsjeng_s (peak) did not have enough runs!

625.x264_s (peak) did not have enough runs!

641.leela_s (peak) did not have enough runs!

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

657.xz_s (peak) did not have enough runs!

Input set must be 'refspeed' for a valid run (set to 'test' for this run)

Unknown flags were used! See

https://www.spec.org/cpu2017/Docs/runcpu.hthl#flagsurl

for information about how to get tid of this error.

Results Table

	Base							Peak						
Benchmark /	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench														
602.gcc_s		>												
605.mcf_s)/												
620.omnetpp_s		•												
623 xalancbmk_s														
625.x264_s	\ <u>/</u> /													
631.deepsjeng_s														
641.leela_s														
648.exchange2_s	4	38.7	0.00					4	33.8	0.00				
657.xz_s														

SPECspeed2017_int_base = 0.00

SPECspeed2017_int_peak = 0.00

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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SPECspeed2017_int_base = 0.00

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SPECspeed2017_int_peak

ak = 0.00

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General Notes

Environment variables set by runcpu before the start of the run: LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/lib64"

Platform Notes

Sysinfo program /home/sipeed/spec2017/bin/sysinfo Rev: r5974 of 2018-05-19 9bcde8f2999c33d6lf64985e45859ea9 running on lpi4a Wed Nov 29 13/17:12 2023

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

*

* Did not identify cpu model. If you would

* like to write your own sysinto program, see

* www.spec.org/cpu2017/donfig html#sys/nfo

*

* 0 "physical id" 🛵 s found. Perhaps this is an older system,

* or a virtualized system. Not attempting to guess how to

count chips/cares for this system.

4 "processors"

cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

From 1/sdpu:

Architecture: riscv64

Byte Order: / Little Endian

CPU(s): 4
On-line CPU(s) list: 0-3

/proc/cpuinto cache data

cpu-cacheline : 64Bytes

cpu-dcache : 64KB cpu-icache : 64KB cpu-l2cache : 1MB

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

From /proc/meminfo

MemTotal: 16116952 kB

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SPECspeed2017 int peak

(),()()

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Platform Notes (Continued)

HugePages_Total: Hugepagesize: 2048 kB

/usr/bin/lsb_release -d

Debian GNU/Linux 12 (bookworm)

From /etc/*release* /etc/*version* debian_version: 12.0 os-release:

PRETTY_NAME="Debian GNU/Linux 12 (bookworm)

NAME="Debian GNU/Linux"

VERSION ID="12"

VERSION="12 (bookworm)

VERSION_CODENAME=bookworm

ID=debian

HOME_URL="https://www.debian.org/"

SUPPORT_URL="https://www.debian.org/support"

revyos-release:

BUILD_ID=20231009/134826

BUILD_DATE=20231009

COMMIT_ID=f9867c522485046f1965a3101bd4545520803623

RUNNER_ID=645/1521686

uname -a:

Linux lpi4a 5 10.113+ #4 SMP PREEMPT Fri Oct 20 06:59:14 UTC 2023 riscv64 GNU/Linux

run-level 5 Nov 28 13:15

SPEC is set to /home/sipeed/spec2017

Filesystem /dev/root Type Size Used Avail Use% Mounted on

ex24 115G 12G 98G 11% /

Additional information from dmidecode follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent charges to hardware, firmware, and the "DMTF SMBIOS" standard.

(End of data from sysinfo program)

Compiler Version Notes

FC 648.exchange2_s(base, peak)

Debian flang-new version 17.0.0 (+rc4-1~exp5revyos1)

Target: riscv64-unknown-linux-qnu

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Compiler Version Notes (Continued)

Thread model: posix

InstalledDir: /usr/lib/llvm-17/bin

Base Unknown Flags

648.exchange2_s: "/usr/bin/flang-new-17ARRAY(0x2ac0df7ff0)
"/usr/bin/flang-new-17ARRAY(0x2ac1ab98e0)
"-q -O3ARRAY(0x2ac1aba9e8)

Peak Unknown Flags

648.exchange2_s: "/usr/bin/flang-new-1\ARRAY(0x2ac0df7ff0)

"/usr/bin/flang-new-17ARRAY(0x2ac1ab98e%)

"-g -O3ARRAY(0x2ac1aba9e8)

648.exchange2_s: "/usr/bin/flang-new 17ARRAY(0x2ac1aa7b40)

"/usr/bin/flang-new-17ARRAY((*2aclaa7a50)

"-g -OfastARRAY(0x2ac1c06ed0

Base Portability Flags

648.exchange2 s: -DSPEC LP64

Base Optimization Flags

Fortran benchmarks:

-DSPEC_ORENMP DUSE_OPENMP

Peak Portability Flags

Same as Base Portability Flags

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Peak Optimization Flags

Fortran benchmarks:

-DSPEC_OPENMP -DUSE_OPENMP

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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU2017 v1.0.5 on 2023-11-29 13:17:08+0000.

Report generated on 2023-11-29 13:19:22 by CPU2017 PDF formatter v5866.