SPEC® CPU2017 Floating Point Speed Result Copyright 2017-2023 Standard Performance Evaluation Corporation sipeed SPECspeed2017_fp_base (Test Sponsor: PLCT) SPECspeed2017_fp 0.00CPU2017 License: 0 Test Date: Nov-2023 Hardware Availability: May-2023 **Test Sponsor: PLCT Software Availability:** Nov-2023 **Tested by: PLCT** Threads 603.bwaves_s 607.cactuBSSN s 619.lbm_s 621.wrf_s 627.cam4_s 628.pop2_s 638.imagick_s 644.nab_s 649.fotonik3d_s 654.roms_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: 64 KB I + 64 Kb D on chip per core File System: ext4 🗘 ache L1: L2: 1MB L2 Cache for all core System State: Run level 5 (add definition here) <u>L3</u>: None Base Pointers: 64-bit Other; Peak Pointers: 64-bit None Memory 15.370 GB fixme: If using DDR4, the format is: 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 627.cam4_s (base) did not have enough runs! 619.lbm_s (base) did not have enough runs! 621.wrf_s (base) did not have enough runs! 628.pop2 s (base) did not have enough runs!

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SPECspeed2017_fp_base = 0.00

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0.00

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Errors (Continued)

644.nab_s (base) did not have enough runs!
638.imagick_s (base) did not have enough runs!
649.fotonik3d_s (base) did not have enough runs!
654.roms_s (base) did not have enough runs!
607.cactuBSSN_s (base) did not have enough runs!
603.bwaves_s (base) did not have enough runs!
627.cam4_s (peak) did not have enough runs!
619.lbm_s (peak) did not have enough runs!
621.wrf_s (peak) did not have enough runs!
628.pop2_s (peak) did not have enough runs!
644.nab_s (peak) did not have enough runs!
638.imagick_s (peak) did not have enough runs!
649.fotonik3d_s (peak) did not have enough runs!
654.roms_s (peak) did not have enough runs!
607.cactuBSSN s (peak) did not have enough runs!

603.bwaves_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/runepu.html#flagsurl for information about how to get rid of this error.

Results Table

	Base							Peak						
Benchmark /	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s														
607.cactuBSSN_s	4	38.4	0.00					4	39.9	0.00				
619.lbm_s)/												
621.wrf_s														
627 cam4_s														
628.pop2_s	\ <u>/</u> /													
638.imagick_s														
644.nab_s														
649.fotonik3d_s														
654.roms_s														

SPECspeed2017_fp_base = 0.00

SPECspeed2017_fp_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_fp_base = **6**0.00

SPECspeed2017 fp peak

0.00

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General Notes

Environment variables set by runcpu before the start of tke run: LD_LIBRARY_PATH = "/usr/lib64/:/usr/lib/:/lib64" OMP_STACKSIZE = "120M"

Platform Notes

Sysinfo program /home/sipeed/spec2017/bih/sysinfo Rev: r5974 of 2018-05-19 9bcde872999c33d6164985e46859ea9 running on lpi4a Wed Nov 29 13 4:19 2023

SUT (System Under Test) in 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 systmato program, see

www.spec.org/cpu2017/config.html#sysinfo

0 "physical id" taga found. Perhaps this is an older system,

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

* count chips cores 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 Iscpu:

riscv64 Architecture

Byte Order: Little Endian

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

/proc/cpuinfo cache data cpu-dacheline : 64Bytes

cpu-dcache: 64KB cpu-icache: 64KB cpu-12cache: 1MB

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

From /proc/meminfo

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SPECspeed2017_fp_peak

0.00

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Platform Notes (Continued)

MemTotal: 16116952 kB
HugePages_Total: 0
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)

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_1346/26

BUILD_DATE=20231009

COMMIT_ID=f9867c522485046f1965a3101bd4545520803623

RUNNER_ID=6457521686

uname -a:

Linux lpi46 5.10.1134 #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: Xhome/sipeed/spec2017

Filesystem Fype Size Used Avail Use% Mounted on

/dev/root | 0xt4 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 changes to hardware, firmware, and the "DMTF SMBIOS" standard.

(End of data from sysinfo program)

Compiler Version Notes

FC 607.cactuBSSN_s(base, peak)

Debian clang version 17.0.0 (+rc4-1~exp5revyos1)

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Compiler Version Notes (Continued)

Target: riscv64-unknown-linux-gnu

Thread model: posix
InstalledDir: /usr/bin

Debian clang version 17.0.0 (+rc4-1~exp5revyos1)

Target: riscv64-unknown-linux-gnu

Thread model: posix InstalledDir: /usr/bin

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

Target: riscv64-unknown-linux-gnu

Thread model: posix

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

Base Unknown Flags

607.cactuBSSN_s: "/usr/bin/clang++-17 -std=c++98ARRAY(0x2acc0ab0b8)

"/usr/bin/clang-17 -Wno-implicit-intARRAY/0x2acc10c8c0)

"/usr/bin/flang-new-17ARKAY(0x2acc11ab0)8/

"/usr/bin/clang++-17 -std=c++#8ARRAY/0x2acc138040)

"-g -03ARRAY(0x2acc2428c0)

"-fno-strict-aliasingARRAY(0x2acc243ad0)

Peak Unknown Flags

607.cactuBSSM_s: \usr/bin/clang++-17 -std=c++98ARRAY(0x2acc0ab0b8)

"/usr/bin/glang-17 -Wno-implicit-intARRAY(0x2acc10c8c0)

usr/ban/flang new-17ARRAY(0x2acc11ab08)

g -03ARRAY(0x2acd2428c0)

"-fro-strict-aliasingARRAY(0x2acc243ad0)

607.cactuBSSN_s: ")asr/bin/clang++-17 -std=c++98ARRAY(0x2acc10c5f0)

"/usrybin/clang-17 -Wno-implicit-intARRAY(0x2acc11abe0)

"/usr/bln/flang-new-17ARRAY(0x2acc101360)

"/usr/bin//1ang++-17 -std=c++98ARRAY(0x2acc2656c0)

"-g -OfastARRAY(0x2acc248bb8)

Base Portability Flags

607.cactuBSSN_s: -DSPEC_LP64

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SPECspeed2017_fp_pea

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Base Optimization Flags

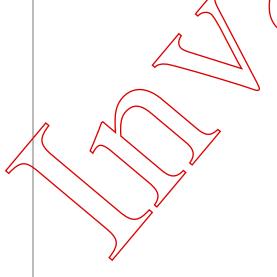
Benchmarks using Fortran, C, and C++:
-DSPEC_OPENMP -DUSE_OPENMP

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

Benchmarks using Fortran, C, and C++:
-DSPEC_OPENMP -DUSE_OPENMP



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