SPEC® CPU2017 Floating Point Rate Result Copyright 2017-2023 Standard Performance Evaluation Corporation sipeed SPECrate2017 p base (Test Sponsor: PLCT) SPECrate2017 fp 0.00CPU2017 License: 0 Test Date: Nov-2023 Hardware Availability: May-2023 **Test Sponsor: PLCT Software Availability:** Nov-2023 **Tested by: PLCT** Copies 503.bwaves_r 507.cactuBSSN_r 508.namd_r 510.parest_r 511.povray_r 519.lbm_r 521.wrf_r 526.blender_r 527.cam4_r 538.imagick_r 544.nab_r 549.fotonik3d_r **554.roms H**ardware **Software** OS: CPU Name: Debian GNU/Linux 12 (bookworm) TH1520 Max MHz.: 2000MHz 5.10.113+Nominal: 2000MHz Compiler: Debian clang version 17.0.0 (+rc4-1~exp5revyos1) Enabled: 4 cores, chip Parallel: Orderable: Firmware: Nov-2022 Cache L1: 64 KB I + 64 Kb D on chip per core File System: ext4 MB L2 Cache for all core System State: Run level 5 (add definition here) L2: L3: None Base Pointers: 64-bit Peak Pointers: 64-bit Other: None 15.370 GB fixme: If using DDR4, the format is: Memory: Other: None 'N GB (N x N GB nRxn PC4-nnnnX-X)' 115 GB add more disk info here Storage: Other: None

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 p base

9.00

SPECrate2017 fp

0.00

CPU2017 License: 0 **Test Sponsor: PLCT Tested by: PLCT**

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

Complete set of valid runs for peak rate unavailable (521.wrf r missing)

Complete set of valid runs for peak rate unavailable (519.lbm_r missing)

Complete set of valid runs for peak rate unavailable (507.cactuBSSN_r missing)

Complete set of valid runs for peak rate unavailable (544.nab_rmissing)

Complete set of valid runs for peak rate unavailable (554.roms_r missing)

Complete set of valid runs for peak rate unavailable (511.povray missing)

Complete set of valid runs for peak rate unavailable (549.fotonik3d_r missing)

Complete set of valid runs for peak rate unavailable (538.imagick_r missing)

Complete set of valid runs for peak rate unavailable (508.namd\r missing)

Complete set of valid runs for peak rate unavailable (5/10.parest_r missing)

Complete set of valid runs for peak rate inavailable (\$25 blender r missing)

Complete set of valid runs for peak rate unavailable (503.bwayes_r missing)

Complete set of valid runs for peak rate unavailable (\$27.cam4_nmissing)

There is no set of valid runs with the same number of copies for base

'reportable' flag not set during run

521.wrf r (base) did not have enough runs!

519.lbm_r (base) did not have enough runs!

507.cactuBSSN_r (base) did not have enough runs

544.nab_r (base) did not have enough runs

554.roms_r (base) did not have enough runs

511.povray_r (base) did not have enough runs!

549.fotonik3d_r (base) did not have enough runs!

538.imagick_r (base) did not have enough runs!

508.namd_r (base) did not have enough runs!

510.parest_r (base) did not have enough runs!

526.blender (base) did not have enough runs!

\$03.bwaves_r (base) did not have enough runs!

527 cam4_r (base) did not have enough runs!

521.wrf_r (base) had invalid runs!

521.wrf_r (peak) did not have enough runs!

519.lbm r (peak) did not have enough runs!

507.cactubsSN_r (peak) did not have enough runs!

544.nab_r (peak) did not have enough runs!

554.roms_r (eak) did not have enough runs!

511.povray_r (peak) did not have enough runs!

549.fotonik3d_r (peak) did not have enough runs!

538.imagick_r (peak) did not have enough runs!

508.namd_r (peak) did not have enough runs!

510.parest_r (peak) did not have enough runs!

526.blender r (peak) did not have enough runs!

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 fp_base

SPECrate2017 fp

0.00

CPU2017 License: 0 **Test Sponsor: PLCT Tested by: PLCT**

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

Errors (Continued)

503.bwaves r (peak) did not have enough runs!

527.cam4_r (peak) did not have enough runs!

521.wrf_r (peak) had invalid runs!

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

Run of 521.wrf_r (base) was not valid; status is RE

Run of 521.wrf r (peak) was not valid; status is RE

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							Peak						
Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
		_	,		\n'\								
		(N									
	^	\bigcup		\cup									
			$\setminus J$										
	\mathcal{I}												
A	0.660	0.00)				4	0.667	0.00				
		II											
/		7											
	1												
4	54.5	0.00					4	54.2	0.00				
	4	4 54.5	4 54.5 0.00	Copies Seconds Ratio Seconds 0.660 0.00 4 54.5 0.00	Copies Seconds Ratio Seconds Ratio 0.660 0.00 4 54.5 0.00	Copies Seconds Ratio Seconds Ratio Seconds 0.660 0.00 4 54.5 0.00	Copies Seconds Ratio Seconds Ratio Seconds Ratio 4 0.660 0.00	Copies Seconds Ratio Seconds Ratio Copies 4 0.660 0.00 4 4 54.5 0.00 4 4	Copies Seconds Ratio Seconds Ratio Copies Seconds 4 0.660 0.00 4 0.667 4 54.5 0.00 4 54.2	Copies Seconds Ratio Seconds Ratio Copies Seconds Ratio 4 54.5 0.00 4 54.2 0.00	Copies Seconds Ratio Seconds Ratio Copies Seconds Ratio Seconds 4 0.660 0.00 4 0.667 0.00 4 54.5 0.00 4 54.2 0.00	Copies Seconds Ratio Seconds Ratio Seconds Ratio Seconds Ratio 4 54.5 0.00 4 54.2 0.00 4 54.2 0.00	Copies Seconds Ratio Seconds Ratio Seconds Ratio Seconds A 0.660 0.00 4 0.667 0.00 4 54.5 0.00 4 54.2 0.00

SPECrate2017_fp_base = 0.00

SPECrate2017_fp_peak =

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

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 9bcde8f2999c33d61f64985e45859ea9

0.00

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 fp_base 00.0

SPECrate2017 fp

CPU2017 License: 0 **Test Sponsor: PLCT** Tested by: **PLCT** Test Date: Nov-2023 Hardware Availability: May-2023 **Software Availability:** Nov-2023

(),()()

Platform Notes (Continued)

running on lpi4a Thu Nov 30 03:16:56 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 sysin(fo) program * www.spec.org/cpu2017/config.html#sysinfo

0 "physical id" tags 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/couing might not be reliable. Use with caution.)

From lscpu:

Architecture: Byte Order

Little Endian

CPU(s): On-line CPU(s) list

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

cpu-deache: 64KB cpy-1cache : 64KB cpa-12cache:

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

From /proc/meminfo

MemTata1:16116952 kB Huge dges_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:

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 fp base = 9.00

SPECrate2017_fp_peak

Licheepi 4a

CPU2017 License: 0
Test Sponsor: PLCT
Tested by: PLCT

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

(),()()

Platform Notes (Continued)

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_134626

BUILD_DATE=20231009

COMMIT_ID=f9867c522485046f1965a3101bd4545520803623

RUNNER_ID=645752168

uname -a:

Linux lpi4a 5.10.113+ #4 SMP PREEMPT Fr; Oct 20 06:59:14 UTC 2023 riscv64 GNU/Linux

run-level 5 Nov 28 13:15

SPEC is set to: /home/sigeed/spec2017

Filesystem Type Size Used Avail Use% Mounted on

/dev/root 9xt4 115G 13G 97G 12% /

Additional information from dwidecode 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 554.roms_r(base, peak)

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

Target: risev64-unknown-linux-qnu

Thread model: posix

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

CC 521.wrf_r(base, peak)

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

Target: riscv64-unknown-linux-gnu

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 fp_base = 0.00

SPECrate2017_fp_peaky

Licheepi 4a

CPU2017 License: 0
Test Sponsor: PLCT
Tested by: PLCT

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

(),()()

Compiler Version Notes (Continued)

Thread model: posix

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

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

Target: riscv64-unknown-linux-gnu

Thread model: posix
InstalledDir: /usr/bin

Base Unknown Flags

521.wrf_r: "/usr/bin/flang-new-17ARRAY(x2ac4d87518)

"/usr/bin/clang-17 -Wno-implicit-intARRAY(0x2ac4db3cb8)

"/usr/bin/flang-new-17ARRAW(0x2ac4dc1ab8)

"-g -O3ARRAY(0x2ac4dc5b20)

"-fno-strict-aliasingARRAY(0x2ac4efb0a8)

554.roms_r: "/usr/bin/flang-new-17ARRAY(0x2ac4d809f8)

"/usr/bin/flang-new-17ARFAY(0x2ac4d1f148/

"-g -03ARRAY(0x2ac4efb060)

Peak Unknown Flags

521.wrf_r: "/usr/bin/flang-new-17ARRAY(0x2ac4d87518)

"/usr/bin/clang-17 -Wno implicit-intARRAY(0x2ac4db3cb8)

"/usr/bin/flang-new-17ARRAY(0x2ac4dclab8)

"-g -03ARRAY(0x2ac4dc5b20)

-fno-scrict-aliasingARRAY(0x2ac4efb0a8)

554.roms_r:"/usr/bin/flang-new-17ARRAY(0x2ac4d809f8)

"/usr/bin/flang-new-17ARRAY(0x2ac4d1f148)

g -03ARRAY(0x2ac4efb060)

521.wrfr: "/wsr/bin/flang-new-17ARRAY(0x2ac4d90e40)

"/usr/bln/clang-17 -Wno-implicit-intARRAY(0x2ac4efad78)

"/usr/bin lang-new-17ARRAY(0x2ac4f2fd90)

"-g -OfastARRAY(0x2ac4f39980)

554.roms_r: "/usr/bin/flang-new-17ARRAY(0x2ac4d90ee8)

"/usr/bin/flang-new-17ARRAY(0x2ac4d9fd38)

"-g -OfastARRAY(0x2ac4f37570)

SPEC CPU2017 Floating Point Rate Result Copyright 2017-2023 Standard Performance Evaluation Corporation sipeed SPECrate2017 p base **.00**.00 (Test Sponsor: PLCT) SPECrate2017_fp_ 0.00Test Date: CPU2017 License: 0 Nov-2023 Hardware Availability: May-2023 **Test Sponsor: PLCT Software Availability:** Nov-2023 **Tested by: PLCT** Runtime Environment Fortran benchmarks: 554.roms_r: No flags used Benchmarks using both Fortran and C: 521.wrf_r: No flags used Compiler Invocation Fortran benchmarks: 554.roms_r: No flags used Benchmarks using both Fortran and C 521.wrf_r: No flags used **P**ortability Flags DSPEC LP64 521.wrf_r: -DSPEC_CASE_FLAG 554.roms_r: -DSPEC LP64 **Optimization Flags** Fortran benchmarks: 554 roms r: No flags used Benchmarks using both Fortran and C: 521.wrf_r: 6 flags used **Runtime Environment** Fortran benchmarks:

(Continued on next page)

Standard Performance Evaluation Corporation (info@spec.org)

https://www.spec.org/

Page 7

Copyright 2017-2023 Standard Performance Evaluation Corporation

sipeed

(Test Sponsor: PLCT)

SPECrate2017 fp_base = 9.00

SPECrate2017_fp_peak

Licheepi 4a

CPU2017 License: 0
Test Sponsor: PLCT
Tested by: PLCT

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

0.00

Runtime Environment (Continued)

554.roms_r: No flags used

Benchmarks using both Fortran and C:

521.wrf_r: No flags used

Other Flags

Fortran benchmarks:

554.roms_r: No flags used

Benchmarks using both Fortran and C:

521.wrf_r: No flags used

SPEC is a registered trademark of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 2023-11-30 03:16:52+0000.

Report generated on 2023-11-30 18:21:51 by CPU2017 PDF formatter v5866.