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

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Licheeni 4a

SPECrate2017 fp_base = 0.00

SPECrate2017_fp_peaks

0.00

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

Errors

Complete set of valid runs for peak rate unavailable (508.namd_r missing)

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

Complete set of valid runs for peak rate unavailable (510.parest_r missing)

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

Complete set of valid runs for peak rate unavailable (527.cam4_r missing)

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

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

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

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

Complete set of valid runs for peak rate unavailable (526.blender_x missing)

Complete set of valid runs for peak rate inavailable (Trovray_r missing)

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

Complete set of valid runs for peak rate unavailable (507.cactub(SN) r missing)

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

'reportable' flag not set during run

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

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

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

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

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

538.imagick r (base) did not have enough runs!

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

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

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

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

51 1.povrayer (base) did not have enough runs!

503.bwaves_r (base) did not have enough runs!

507.cactuBSSN_r (base) did not have enough runs!

503.bwaves_r (base) had invalid runs!

508 name r (peak) did not have enough runs!

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

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

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

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

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

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

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

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

526.blender_r (peak) did not have enough runs!

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

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SPECrate2017 fp_base = 0.00

SPECrate2017_fp_peak

0.00

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Errors (Continued)

503.bwaves_r (peak) did not have enough runs!

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

503.bwaves_r (peak) had invalid runs!

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

Run of 503.bwaves_r (base) was not valid; status is RE

Run of 503.bwaves_r (peak) was not valid; status is RE

Unknown flags were used! See

https://www.spec.org/cpu2017/Docs/runcpunttnl#flagsurl for information about how to get rid of this error.

Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r	4	0.431	0.00	,		\n'\		4	0.444	0.00				
507.cactuBSSN_r														
508.namd_r			/(N									
510.parest_r		^	\bigcup	$\langle \rangle$	\cup									
511.povray_r				\setminus $/$										
519.lbm_r		\sim												
521.wrf_r	Λ	//	\)										
526.blender_r	6		II											
527.cam4_r														
538.imagick_r	/		7											
544.nab_r														
\$49.fotonik3d_r		1												
554.roms_r														
SDEC of	- 2017 E-	/	0.00						l					

SPECrate2017_fp_base = 0.00

 $SPECrate 2017_{fo}$ peak = 0.00

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/lib64"

Platform Notes

Sysinfo program /home/sipeed/spec2017/bin/sysinfo Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9

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SPECrate2017 p base = 9.00

SPECrate2017_fp_peak

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Test Date:
Hardware Ava

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(),()()

Platform Notes (Continued)

running on lpi4a Wed Nov 29 13:22:12 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 sysinfo program see

* 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/count might not be reliable. Use with caution.)

From lscpu:

Architecture: Byte Order;

Little Endian

CPU(s):

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

/proc/cpuinfo cache data

cpu-cacheline: 64Bytes

cpu-dcache: 64KB

cpu-lcache : 64KB cpu-l2cache : 1MB

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

From /proc/meminfo

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:

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0.00

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Platform Notes (Continued)

```
PRETTY_NAME="Debian GNU/Linux 12 (bookworm)"
NAME="Debian GNU/Linux"
```

VERSION_ID="12"

PLCT

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 12G 98G 11% /

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

TC 503.bwaves_r(base, peak)

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

Target: risev64-unknown-linux-gnu

Thread model: posix

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

Base Unknown Flags

503.bwaves_r: "/usr/bin/flang-new-17ARRAY(0x2acb64d2a0)"/usr/bin/flang-new-17ARRAY(0x2acb63d428)

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Optimization Flags

Fortran benchmarks:

503.bwaves_r: No flags used

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

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