SPEC® CPU2017 Integer Rate Result Copyright 2017-2023 Standard Performance Evaluation Corporation sipeed SPECrate2017 int base 0.00(Test Sponsor: PLCT) SPECrate2017 int 0.00CPU2017 License: 0 Test Date: Nov-2023 Hardware Availability: May-2023 **Test Sponsor: PLCT Software Availability:** Nov-2023 **Tested by: PLCT** Copies 500.perlbench_r 502.gcc_r 505.mcf_r 520.omnetpp_r 523.xalancbmk_r 525.x264_r 531.deepsjeng_r 541.leela_r 548.exchange2_r 557.xz_r 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 No Firmware: Nov-2022 Orderable: 64 KB I + 64 Kb D on chip per core File System: 🗘 ache L1: ext4 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 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** Complete set of valid runs for peak rate unavailable (502.gcc_r missing) Complete set of valid runs for peak rate unavailable (531.deepsjeng_r missing) Complete set of valid runs for peak rate unavailable (520.omnetpp_r missing) Complete set of valid runs for peak rate unavailable (500.perlbench_r missing) Complete set of valid runs for peak rate unavailable (523.xalancbmk r missing)

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SPECrate2017 int base = 9.00

SPECrate2017_int_peak

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

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Errors (Continued)

Complete set of valid runs for peak rate unavailable (557.xz_r missing)

Complete set of valid runs for peak rate unavailable (548.exchange2_r missing)

Complete set of valid runs for peak rate unavailable (505.mgf_missing)

Complete set of valid runs for peak rate unavailable (525.x264, r missing)

Complete set of valid runs for peak rate unavailable (541.leela_r missing)

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

'reportable' flag not set during run

502.gcc_r (base) did not have enough runs!

531.deepsjeng_r (base) did not have enough runs!

520.omnetpp_r (base) did not have enough runs!

500.perlbench_r (base) did not have enough runs!

523.xalancbmk_r (base) did not have enough runs!

557.xz_r (base) did not have enough runs!

548.exchange2_r (base) did not have enough runs?

505.mcf_r (base) did not have enough runs!

525.x264_r (base) did not have enough runs!

541.leela_r (base) did not have enough runs)

502.gcc_r (peak) did not have enough runs!

531.deepsjeng_r (peak) did not have enough runs.

520.omnetpp_r (peak) did not have enough runs!

500.perlbench_r (peak) did not have enough runs!

523.xalancbmk_r (peak) did not have enough runs!

557.xz_r (peak) did not have enough runs!

548.exchange2_r (peak) did not have enough runs!

505.mcf_r (peak) did not have enough runs!

525.x264_r (peak) did not have enough runs!

(541.leela r (peak) did not have enough runs!

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

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 | | | | | | | |
|-----------------|--------|---------|-------|---------|-------|---------|-------|--------|---------|-------|---------|-------|---------|-------|--|--|
| Benchmark | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | | |
| 500.perlbench_r | | | | | | | | | | | | | | | | |
| 502.gcc_r | | | | | | | | | | | | | | | | |
| 505.mcf_r | | | | | | | | | | | | | | | | |

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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Software Availability: Nov-2023

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Results Table (Continued)

| | Base | | | | | | | | Peak | | | | | | | |
|-----------------|--------|---------|-------|---------|-------|---------|-------|---------------|---------|---------------|---------|-------|---------|-------|--|--|
| Benchmark | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | Copies | Seconds | Ratio | Seconds | Ratio | Seconds | Ratio | | |
| 520.omnetpp_r | | | | | | | | | | \mathcal{I} | | | | | | |
| 523.xalancbmk_r | | | | | | | | | | | | | | | | |
| 525.x264_r | | | | | | | | |)/ | | | | | | | |
| 531.deepsjeng_r | | | | | | | | | | | | | | | | |
| 541.leela_r | | | | | | | | | | | | | | | | |
| 548.exchange2_r | 4 | 39.0 | 0.00 | | | (| | 4 | 34.0 | 0.00 | | | | | | |
| 557.xz_r | | | | | | | | \mathcal{N} | | | | | | | | |

SPECrate2017_int_base = 0.00

 $SPECrate2017_int_peak = 0.00$

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/lib4/ /usr/lib/:/lib64"

Platform Notes

Sysinfo program /home/sipeed/spec2017/bin/sysinfo Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9 running on lp14a Wed Nov 29 12:59:53 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/cpuinto

- * 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,
- st or a $m \overset{.}{v}$ irtualized system. Not attempting to quess 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 lscpu:

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Platform Notes (Continued)

```
Architecture:
                     riscv64
                     Little Endian
Byte Order:
CPU(s):
On-line CPU(s) list: 0-3
```

/proc/cpuinfo cache data cpu-cacheline : 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

16116952 kB MemTotal: HugePages_Total: Hugepagesize: 2048 kB

/usr/bin/lsb_release -d Debian GNU/Linux 12 (bbol

From /etc/*release** debian_version: 12 os-release:/

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

VERSION="12 (bookworm)" VERSION_CODENAME=bookworm ID debian

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

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

vyos-release:

BUILD_10≠20231009_134626 BUILD_DATE=20231009

COMMIZ_ID=f9867c522485046f1965a3101bd4545520803623

RUNNER_ID=6457521686

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 Type Size Used Avail Use% Mounted on

/dev/root ext4 115G 12G 98G 11% /

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0.00

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Platform Notes (Continued)

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 548.exchange2_r(base, peak)

Debian flang-new version 17.0.0 (+rc4-1~exp5xexyos1)

Target: riscv64-unknown-linux-ghu

Thread model: posix

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

Base Unknown Flags

548.exchange2_r: "/usr/bin hlang-new-1/ARRAY(0x2af1326008)

Peak Unknown Flags

548.exchange2_r"/usr/bin/flang-new-17ARRAY(0x2af1326008)

"/usr/bin/flang-new-17ARRAY(0x2af1322e78)

-g -03ARRAY(0x2a2131e970)

548.exchange2_r: "_usr/bin/flang-new-17ARRAY(0x2af1325980)

"/usr/bin/flang-new-17ARRAY(0x2af1301890)

"-g -OfastARRAY(0x2af1487a30)

Base Portability Flags

548.exchange2_r: -DSPEC_LP64

[&]quot;/usr/bin/flang-new-17ARRAY(0x2af1322e78)

[&]quot;-g -03ARRAY(0x2af131e970)

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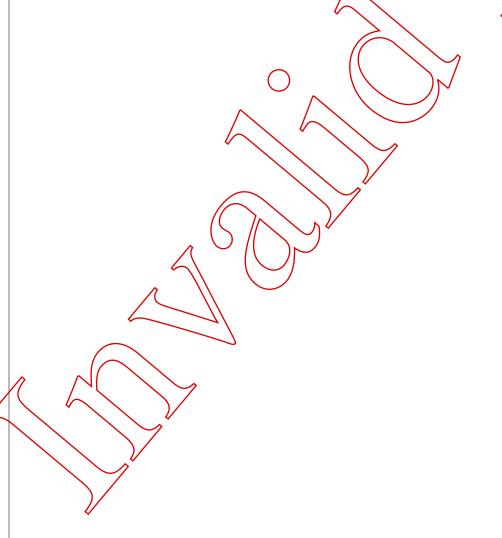
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0.00

Peak Portability Flags

Same as Base Portability Flags



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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 12:59:49+0000.

Report generated on 2023-11-29 13:03:59 by CPU2017 PDF formatter v5866.