



SPEC CPU®2026 Floating Point Rate Result

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Raspberry Pi

(Test Sponsor: Ampere Computing, Inc.)

SPECrate®2026_fp_base = 3.72

Raspberry Pi 5 Model B Rev 1.1 (16 GB)

SPECrate®2026_fp_peak = 3.93

CPU2026 License: 6412

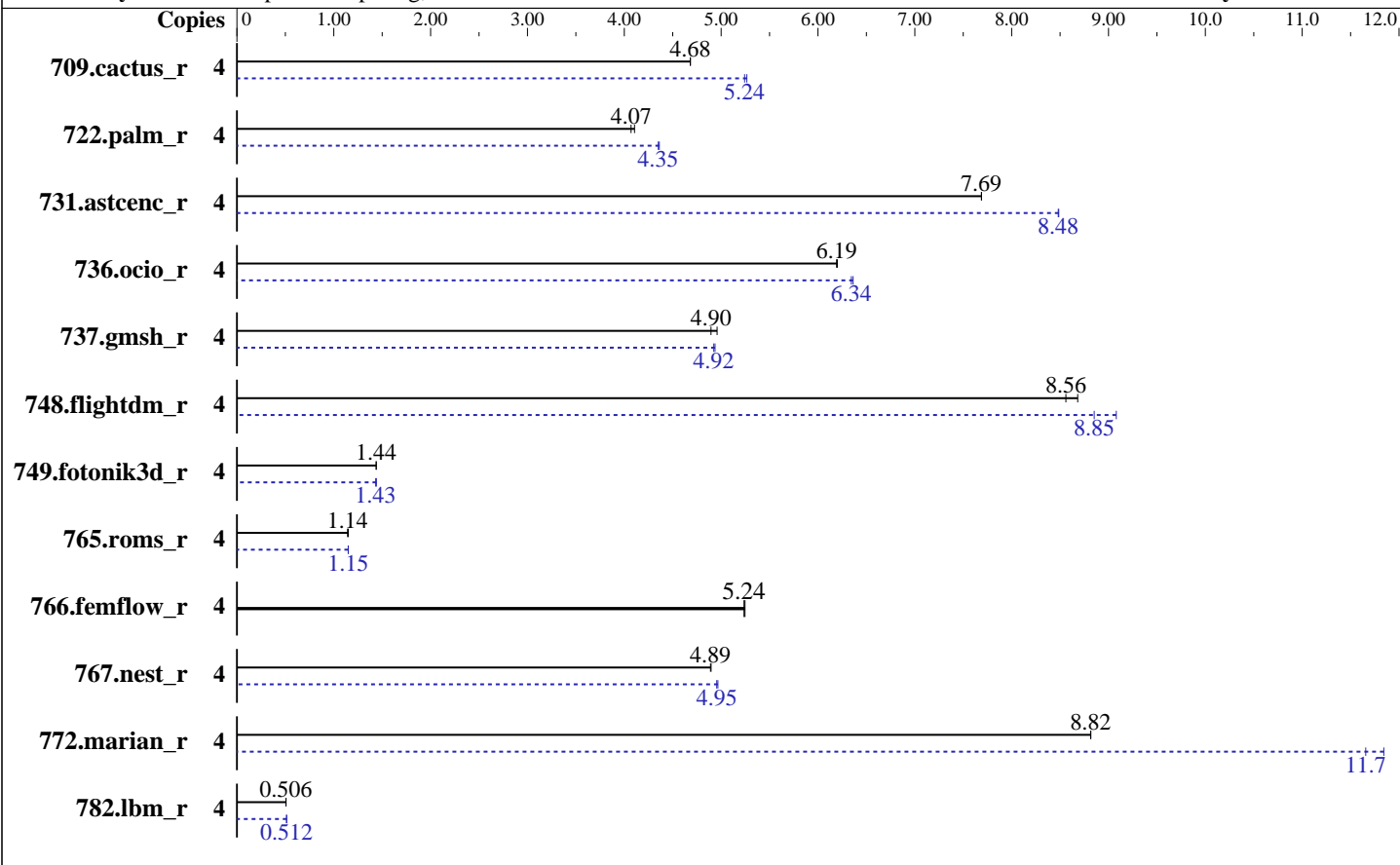
Test Sponsor: Ampere Computing, Inc.

Tested by: Ampere Computing, Inc.

Test Date: Feb-2026

Hardware Availability: Jan-2025

Software Availability: Nov-2025



Hardware

CPU Name: Broadcom BCM2712
 Max MHz: 2400
 Nominal: 2400
 Enabled: 4 cores, 1 chip
 Orderable: 1 board
 Cache L1: 64 KB I + 64 KB D on chip per core
 L2: 2 MB I+D on chip per core 512 KB
 L3: 2 MB I+D on chip per chip
 Other: None
 Memory: 16 GB
 Storage: 1 x 128 GB Samsung PRO Endurance MicroSD
 Cooling: Air
 Other: Adafruit Raspberry Pi 5 case (ID 6307; no fan);
 veakson Portable Desk Fan (UPC 669936718801)

Software

OS: DietPi v9.19.2 (kernel 6.12.47+rpt-rpi-2712)
 Compiler: C/C++/Fortran: Version 14.2.0 of GCC, the GNU Compiler Collection (Debian 14.2.0-19)
 Compiler Category: Community
 Firmware: Version 57db150d released Nov-2025
 File System: ext4
 System State: Run level 3 (multi-user; no GUI)
 Base Pointers: 64-bit
 Peak Pointers: 64-bit
 Other: None
 Power Management: All settings left at default.



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Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
709.cactus_r	4	733	4.68	733	4.68			4	652	5.27	655	5.24		
722.palm_r	4	1297	4.07	1286	4.11			4	1211	4.36	1214	4.35		
731.ascenc_r	4	437	7.69	437	7.69			4	396	8.48	396	8.49		
736.ocio_r	4	565	6.20	565	6.19			4	550	6.36	552	6.34		
737.gmsh_r	4	370	4.96	375	4.90			4	372	4.94	373	4.92		
748.flightdm_r	4	330	8.68	335	8.56			4	315	9.08	324	8.85		
749.fotonik3d_r	4	3213	1.44	3218	1.44			4	3227	1.43	3211	1.44		
765.roms_r	4	5516	1.14	5480	1.15			4	5483	1.15	5478	1.15		
766.femflow_r	4	1121	5.24	1118	5.25			4	1121	5.24	1118	5.25		
767.nest_r	4	648	4.90	649	4.89			4	640	4.95	639	4.97		
772.marian_r	4	716	8.82	716	8.82			4	542	11.7	533	11.8		
782.lbm_r	4	4532	0.506	4516	0.508			4	4462	0.514	4480	0.512		

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

Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit

Environment Variables Notes

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

Platform Notes

System powered via USB-C from Apple 45W USB-C power supply.
HDMI display and keyboard were disconnected during the run.

Sysinfo program /spec/cpu2026-0.902.0/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on ci-pi5 Sat Feb 7 22:42:49 2026

SUT (System Under Test) info as seen by some common utilities.

Table of contents

1. uname -srvm
2. w

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Platform Notes (Continued)

- 3. Username
- 4. ulimit -a
- 5. sysinfo process ancestry
- 6. /proc/cpuinfo
- 7. lscpu
- 8. numactl warning
- 9. /proc/meminfo
- 10. Systemd service manager version: systemd 257 (257.9-1~deb13u1)
- 11. Services, from systemctl list-unit-files
- 12. Linux kernel boot-time arguments, from /proc/cmdline
- 13. sysctl
- 14. OS release
- 15. Disk information
- 16. dmidecode warning

```
-----
1. uname -srvm
Linux 6.12.47+rpt-rpi-2712 #1 SMP PREEMPT Debian 1:6.12.47-1+rpt1 (2025-09-16) aarch64
```

```
-----
2. w
22:42:49 up 8:04, 0 users, load average: 2.15, 3.47, 3.82
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
```

```
-----
3. Username
From environment variable $USER: cloyce
```

```
-----
4. ulimit -a
time(seconds)      unlimited
file(blocks)       unlimited
data(kbytes)       unlimited
stack(kbytes)      unlimited
coredump(blocks)   0
memory(kbytes)     unlimited
locked memory(kbytes) 8192
process            64597
nofiles            1024
vmemory(kbytes)    unlimited
locks              unlimited
rtprio            0
```

```
-----
5. sysinfo process ancestry
/sbin/init
```

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Platform Notes (Continued)

```
tmux a
zsh
runcpu --reportable -c rpi-gcc fprate
runcpu --reportable --configfile rpi-gcc --nopower --runmode rate --tune base:peak --size refrate fprate
--nopreenv --note-preenv --logfile $SPEC/tmp/CPU2026.012/templogs/preenv.fprate.012.0.log --lognum 012.0
--from_runcpu 2
specperl $SPEC/bin/sysinfo -f
$SPEC = /spec/cpu2026-0.902.0
```

6. /proc/cpuinfo

```
CPU implementer : 0x41
CPU architecture: 8
CPU variant     : 0x4
CPU part       : 0xd0b
CPU revision    : 1
Features       : fp asimd evtstrm aes pmull sha1 sha2 crc32 atomics fphp asimdhp cpuid asimdrdm lrcpc
                dcpop asimddp
```

WARNING: the number of "processors" from /proc/cpuinfo does not seem to match the number of hardware threads as reported by lscpu. Please verify counts independently.

7. lscpu

From lscpu from util-linux 2.41:

```
Architecture: aarch64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
CPU(s): 4
On-line CPU(s) list: 0-3
Vendor ID: ARM
Model name: Cortex-A76
Model: 1
Thread(s) per core: 1
Core(s) per cluster: 4
Socket(s): -
Cluster(s): 1
Stepping: r4p1
CPU(s) scaling MHz: 62%
CPU max MHz: 2400.0000
CPU min MHz: 1500.0000
BogoMIPS: 108.00
Flags: fp asimd evtstrm aes pmull sha1 sha2 crc32 atomics fphp asimdhp
       cpuid asimdrdm lrcpc dcpop asimddp
L1d cache: 256 KiB (4 instances)
L1i cache: 256 KiB (4 instances)
L2 cache: 2 MiB (4 instances)
```

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Platform Notes (Continued)

```

L3 cache:                2 MiB (1 instance)
NUMA node(s):            8
NUMA node0 CPU(s):      0-3
NUMA node1 CPU(s):      0-3
NUMA node2 CPU(s):      0-3
NUMA node3 CPU(s):      0-3
NUMA node4 CPU(s):      0-3
NUMA node5 CPU(s):      0-3
NUMA node6 CPU(s):      0-3
NUMA node7 CPU(s):      0-3
Vulnerability Gather data sampling: Not affected
Vulnerability Indirect target selection: Not affected
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Reg file data sampling: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; __user pointer sanitization
Vulnerability Spectre v2: Mitigation; CSV2, BHB
Vulnerability Srbds: Not affected
Vulnerability Tsa: Not affected
Vulnerability Tsx async abort: Not affected
Vulnerability Vmscape: Not affected

```

From `lscpu --cache:`

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	64K	256K	4	Data	1	256		64
L1i	64K	256K	4	Instruction	1	256		64
L2	512K	2M	8	Unified	2	1024		64
L3	2M	2M	16	Unified	3	2048		64

8. `numactl` warning

Unable to get information from '`numactl --hardware`'. Please consider installing `numactl`.

9. `/proc/meminfo`

MemTotal: 16604176 kB

'`who -r`' did not return a run level

(Continued on next page)



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Platform Notes (Continued)

10. Systemd service manager version: systemd 257 (257.9-1~deb13u1)
Default Target Status
graphical running

11. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	console-setup cron dietpi-kill_ssh dietpi-postboot dietpi-preboot dietpi-ramlog fake-hwclock-load fake-hwclock-save getty@ keyboard-setup networking rpi-EEPROM-update ssh sshd-keygen systemd-pstore systemd-timesyncd
enabled-runtime	systemd-fsck-root systemd-remount-fs
disabled	console-getty debug-shell dietpi-cloudshell dietpi-firstboot dietpi-fs_partition_resize dietpi-vpn dietpi-wifi-monitor e2scrub_reap ifupdown-wait-online rsync sysstat systemd-boot-check-no-failures systemd-confext systemd-network-generator systemd-networkd systemd-networkd-wait-online systemd-networkd-wait-online@ systemd-pcrlock-file-system systemd-pcrlock-firmware-code systemd-pcrlock-firmware-config systemd-pcrlock-machine-id systemd-pcrlock-make-policy systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext systemd-time-wait-sync systemd-udev-load-credentials wpa_supplicant wpa_supplicant-nl80211@ wpa_supplicant-wired@ wpa_supplicant@
indirect	serial-getty@ sshd@
masked	apt-daily apt-daily-upgrade cryptdisks cryptdisks-early fake-hwclock getty-static hwclock serial-getty@ttyAMA0 serial-getty@ttyS0 sudo systemd-logind x11-common

12. Linux kernel boot-time arguments, from /proc/cmdline

```
reboot=w
coherent_pool=1M
8250.nr_uarts=1
pci=pcie_bus_safe
cgroup_disable=memory
numa_policy=interleave
nvme.max_host_mem_size_mb=0
bcm2708_fb.fbwidth=1920
bcm2708_fb.fbheight=1080
bcm2708_fb.fbdepth=16
bcm2708_fb.fbswap=1
numa=fake=8
system_heap.max_order=0
iommu_dma_numa_policy=interleave
smc95xx.macaddr=88:A2:9E:03:6B:8B
vc_mem.mem_base=0x3fc00000
vc_mem.mem_size=0x40000000
root=PARTUUID=b06e45c0-02
rootfstype=ext4
rootwait
fsck.repair=yes
```

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Platform Notes (Continued)

```
net.ifnames=0
logo.nologo
console=ttyAMA0,115200
console=tty1
```

13. sysctl

```
kernel.randomize_va_space      2
vm.compaction_proactiveness    20
vm.dirty_background_bytes      0
vm.dirty_background_ratio      10
vm.dirty_bytes                  0
vm.dirty_expire_centisecs      3000
vm.dirty_ratio                  20
vm.dirty_writeback_centisecs   500
vm.dirtytime_expire_seconds    43200
vm.extfrag_threshold           500
vm.min_unmapped_ratio          1
vm.swappiness                    1
vm.watermark_boost_factor      15000
vm.watermark_scale_factor       10
vm.zone_reclaim_mode           0
```

14. OS release

```
From /etc/*-release /etc/*-version
os-release Debian GNU/Linux 13 (trixie)
```

15. Disk information

```
SPEC is set to: /spec/cpu2026-0.902.0
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/root       ext4  117G   22G   91G   20% /
```

16. dmidecode warning

```
Could not find dmidecode
```

```
BIOS: (could not find information)
```

Compiler Version Notes

```
=====  
C      | 782.lbm_r(base, peak)  
-----
```

```
gcc (Debian 14.2.0-19) 14.2.0
```

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Compiler Version Notes (Continued)

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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

=====
C++ | 731.astcenc_r(base, peak) 736.ocio_r(base, peak)
| 748.flightdm_r(base, peak) 766.femflow_r(base, peak)
| 767.nest_r(base, peak) 772.marian_r(base, peak)
=====

g++ (Debian 14.2.0-19) 14.2.0
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warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

=====
C++, C | 709.cactus_r(base pass 0, peak pass 0) 737.gmsh_r(base pass 0, peak
| pass 0)
=====

g++ (Debian 14.2.0-19) 14.2.0
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C++, C | 709.cactus_r(base pass 0, peak pass 0) 737.gmsh_r(base pass 0, peak
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C++, C | 709.cactus_r(base pass 0, peak pass 0) 737.gmsh_r(base pass 0, peak pass 0)

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=====
Fortran | 722.palm_r(base, peak) 749.fotonik3d_r(base, peak) 765.roms_r(base, peak)

GNU Fortran (Debian 14.2.0-19) 14.2.0
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Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Fortran benchmarks:
gfortran

Benchmarks using both C and C++:
g++ gcc

Base Portability Flags

709.cactus_r: -DSPEC_LP64
722.palm_r: -DSPEC_LP64
731.ascenc_r: -DSPEC_LP64
736.ocio_r: -DSPEC_LP64
737.gmsh_r: -DSPEC_LP64
748.flightdm_r: -DSPEC_LP64
749.fotonik3d_r: -DSPEC_LP64
765.roms_r: -DSPEC_LP64

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Base Portability Flags (Continued)

766.femflow_r: -DSPEC_LP64

767.nest_r: -DSPEC_LP64

772.marian_r: -DSPEC_LP64

782.lbm_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-mabi=lp64 -std=c18 -g -O3 -flto

C++ benchmarks:

-mabi=lp64 -std=c++17 -g -O3 -flto

Fortran benchmarks:

-mabi=lp64 -std=f2018 -g -O3 -flto -fallow-argument-mismatch

Benchmarks using both C and C++:

-mabi=lp64 -std=c++17 -std=c18 -g -O3 -flto

Peak Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both C and C++:

g++ gcc

Peak Portability Flags

709.cactus_r: -DSPEC_LP64

722.palm_r: -DSPEC_LP64

731.ascenc_r: -DSPEC_LP64

736.ocio_r: -fno-finite-math-only(*) -DSPEC_LP64

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Peak Portability Flags (Continued)

737.gmsh_r: -fno-fast-math(*) -DSPEC_LP64
 748.flightdm_r: -fno-fast-math(*) -DSPEC_LP64
 749.fotonik3d_r: -DSPEC_LP64
 765.roms_r: -DSPEC_LP64
 766.femflow_r: -DSPEC_LP64
 767.nest_r: -fno-finite-math-only(*) -DSPEC_LP64
 772.marian_r: -DSPEC_LP64
 782.lbm_r: -DSPEC_LP64

(*) Indicates a portability flag that was found in a non-portability variable.

Peak Optimization Flags

C benchmarks:

-mabi=lp64 -std=c18 -Ofast -mcpu=native -flto

C++ benchmarks:

731.astcenc_r: -mabi=lp64 -std=c++17 -Ofast -mcpu=native -flto

736.ocio_r: Same as 731.astcenc_r

748.flightdm_r: Same as 731.astcenc_r

766.femflow_r: basepeak = yes

767.nest_r: Same as 731.astcenc_r

772.marian_r: Same as 731.astcenc_r

Fortran benchmarks:

-mabi=lp64 -std=f2018 -Ofast -mcpu=native -flto

-fallow-argument-mismatch

Benchmarks using both C and C++:

-mabi=lp64 -std=c++17 -std=c18 -Ofast -mcpu=native -flto

The flags file that was used to format this result can be browsed at

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.html>

You can also download the XML flags source by saving the following link:

<http://www.spec.org/cpu2026/results/flags/gcc-rev-A2.xml>



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Tested with SPEC CPU[®]2026 v0.902.0 on 2026-02-08 01:42:48-0500.
Report generated on 2026-05-11 16:35:40 by CPU2026 PDF formatter (unknown).
Originally published on 2026-05-05.