



SPEC CPU®2026 Integer Rate Result

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Raspberry Pi

(Test Sponsor: Ampere Computing, Inc.)

SPECrate®2026_int_base = 4.80

Raspberry Pi 5 Model B Rev 1.1 (16 GB)

SPECrate®2026_int_peak = 4.89

CPU2026 License: 6412

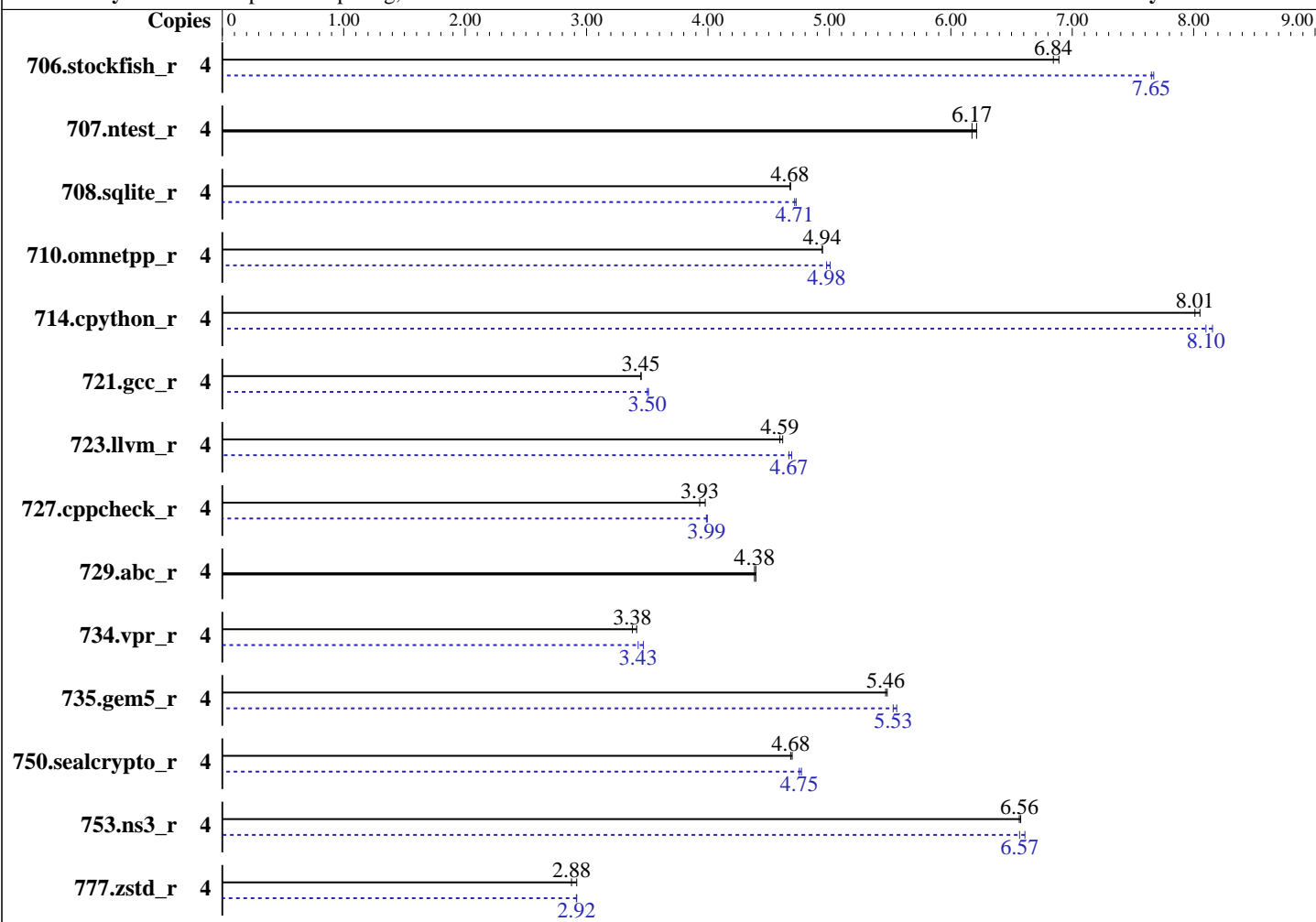
Test Sponsor: Ampere Computing, Inc.

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 |
| 706.stockfish_r | 4 | 736 | 6.84 | 731 | 6.89 | | | 4 | 659 | 7.65 | 657 | 7.67 | | |
| 707.ntest_r | 4 | 384 | 6.17 | 381 | 6.21 | | | 4 | 384 | 6.17 | 381 | 6.21 | | |
| 708.sqlite_r | 4 | 452 | 4.68 | 451 | 4.68 | | | 4 | 447 | 4.73 | 448 | 4.71 | | |
| 710.omnetpp_r | 4 | 393 | 4.94 | 393 | 4.94 | | | 4 | 391 | 4.98 | 388 | 5.01 | | |
| 714.cpython_r | 4 | 238 | 8.05 | 239 | 8.01 | | | 4 | 237 | 8.10 | 235 | 8.16 | | |
| 721.gcc_r | 4 | 796 | 3.45 | 795 | 3.45 | | | 4 | 782 | 3.51 | 784 | 3.50 | | |
| 723.llvm_r | 4 | 442 | 4.59 | 439 | 4.62 | | | 4 | 435 | 4.67 | 433 | 4.69 | | |
| 727.cppcheck_r | 4 | 361 | 3.98 | 365 | 3.93 | | | 4 | 359 | 3.99 | 360 | 3.99 | | |
| 729.abc_r | 4 | 419 | 4.38 | 418 | 4.39 | | | 4 | 419 | 4.38 | 418 | 4.39 | | |
| 734.vpr_r | 4 | 540 | 3.41 | 546 | 3.38 | | | 4 | 538 | 3.43 | 532 | 3.47 | | |
| 735.gem5_r | 4 | 356 | 5.48 | 357 | 5.46 | | | 4 | 351 | 5.55 | 353 | 5.53 | | |
| 750.sealcrypto_r | 4 | 458 | 4.68 | 457 | 4.69 | | | 4 | 451 | 4.75 | 450 | 4.77 | | |
| 753.ns3_r | 4 | 373 | 6.58 | 374 | 6.56 | | | 4 | 371 | 6.61 | 373 | 6.57 | | |
| 777.zstd_r | 4 | 896 | 2.88 | 883 | 2.92 | | | 4 | 882 | 2.92 | 883 | 2.92 | | |

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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 14:42:23 2026

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

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Platform Notes (Continued)

-
1. `uname -srvm`
 2. `w`
 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
14:42:23 up 4 min, 0 users, load average: 0.08, 0.02, 0.01
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
```

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Platform Notes (Continued)

```

5. sysinfo process ancestry
  /sbin/init
  tmux a
  zsh
  runcpu --reportable -c rpi-gcc intrate
  runcpu --reportable --configfile rpi-gcc --nopower --runmode rate --tune base:peak --size refrate intrate
  --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2026.011/templogs/preenv.intrate.011.0.log --lognum 011.0
  --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:          71%
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

```

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Platform Notes (Continued)

```

L1d cache:                256 KiB (4 instances)
L1i cache:                256 KiB (4 instances)
L2 cache:                 2 MiB (4 instances)
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
L1i      64K      256K      4 Instruction       1  256
L2      512K      2M         8 Unified           2 1024
L3       2M       2M        16 Unified           3 2048

```

8. numactl warning

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

```

9. /proc/meminfo
MemTotal:      16604176 kB

```

(Continued on next page)



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Platform Notes (Continued)

'who -r' did not return a run level

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-sysexit 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
smsc95xx.macaddr=88:A2:9E:03:6B:8B
vc_mem.mem_base=0x3fc00000
vc_mem.mem_size=0x40000000
root=PARTUUID=b06e45c0-02
```

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Platform Notes (Continued)

```
rootfstype=ext4
rootwait
fsck.repair=yes
net.ifnames=0
logo.nologo
console=ttyAMA10,115200
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)



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Compiler Version Notes

=====
C | 708.sqlite_r(base, peak) 714.cpython_r(base, peak) 777.zstd_r(base,
| peak)
=====

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

=====
C++ | 706.stockfish_r(base, peak) 707.ntest_r(base, peak)
| 727.cppcheck_r(base, peak) 753.ns3_r(base, peak)
=====

g++ (Debian 14.2.0-19) 14.2.0
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=====

=====
C++, C | 710.omnetpp_r(base pass 0, peak pass 0) 721.gcc_r(base pass 0, peak
| pass 0) 723.llvm_r(base pass 0, peak pass 0) 729.abc_r(base pass 0,
| peak pass 0) 734.vpr_r(base pass 0, peak pass 0) 735.gem5_r(base
| pass 0, peak pass 0) 750.sealcrypto_r(base pass 0, peak pass 0)
=====

g++ (Debian 14.2.0-19) 14.2.0
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=====

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C++, C | 710.omnetpp_r(base pass 0, peak pass 0) 721.gcc_r(base pass 0, peak
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| pass 0, peak pass 0) 750.sealcrypto_r(base pass 0, peak pass 0)
=====

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C++, C | 710.omnetpp_r(base pass 0, peak pass 0) 721.gcc_r(base pass 0, peak
| pass 0) 723.llvm_r(base pass 0, peak pass 0) 729.abc_r(base pass 0,
| peak pass 0) 734.vpr_r(base pass 0, peak pass 0) 735.gem5_r(base
| pass 0, peak pass 0) 750.sealcrypto_r(base pass 0, peak pass 0)
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Compiler Version Notes (Continued)

```
| peak pass 0) 734.vpr_r(base pass 0, peak pass 0) 735.gem5_r(base
| pass 0, peak pass 0) 750.sealcrypto_r(base pass 0, peak pass 0)
```

g++ (Debian 14.2.0-19) 14.2.0

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```
=====  
C++, C | 710.omnetpp_r(base pass 0, peak pass 0) 721.gcc_r(base pass 0, peak
| pass 0) 723.llvm_r(base pass 0, peak pass 0) 729.abc_r(base pass 0,
| peak pass 0) 734.vpr_r(base pass 0, peak pass 0) 735.gem5_r(base
| pass 0, peak pass 0) 750.sealcrypto_r(base pass 0, peak pass 0)
```

gcc (Debian 14.2.0-19) 14.2.0

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Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Benchmarks using both C and C++:

g++ gcc

Base Portability Flags

706.stockfish_r: -DSPEC_LP64

707.ntest_r: -DSPEC_LP64

708.sqlite_r: -DSPEC_LP64

710.omnetpp_r: -DSPEC_LP64

714.cpython_r: -DSPEC_LP64

721.gcc_r: -DSPEC_LP64

723.llvm_r: -DSPEC_LP64

727.cppcheck_r: -DSPEC_LP64

729.abc_r: -DSPEC_LP64

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Base Portability Flags (Continued)

734.vpr_r: -DSPEC_LP64
735.gem5_r: -DSPEC_LP64
750.sealcrypto_r: -DSPEC_LP64
753.ns3_r: -DSPEC_LP64
777.zstd_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

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++

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

Peak Portability Flags

706.stockfish_r: -DSPEC_LP64
707.ntest_r: -DSPEC_LP64
708.sqlite_r: -DSPEC_LP64
710.omnetpp_r: -fno-finite-math-only(*) -DSPEC_LP64
714.cpython_r: -DSPEC_LP64
721.gcc_r: -DSPEC_LP64
723.llvm_r: -DSPEC_LP64
727.cppcheck_r: -DSPEC_LP64
729.abc_r: -DSPEC_LP64

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Peak Portability Flags (Continued)

734.vpr_r: -fno-finite-math-only(*) -DSPEC_LP64
735.gem5_r: -fno-finite-math-only(*) -DSPEC_LP64
750.sealcrypto_r: -DSPEC_LP64
753.ns3_r: -fno-finite-math-only(*) -DSPEC_LP64
777.zstd_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:

706.stockfish_r: -mabi=lp64 -std=c++17 -Ofast -mcpu=native -flto

707.ntest_r: basepeak = yes

727.cppcheck_r: Same as 706.stockfish_r

753.ns3_r: Same as 706.stockfish_r

Benchmarks using both C and C++:

710.omnetpp_r: -mabi=lp64 -std=c++17 -std=c18 -Ofast -mcpu=native -flto

721.gcc_r: Same as 710.omnetpp_r

723.llvm_r: Same as 710.omnetpp_r

729.abc_r: basepeak = yes

734.vpr_r: Same as 710.omnetpp_r

735.gem5_r: Same as 710.omnetpp_r

750.sealcrypto_r: Same as 710.omnetpp_r

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>



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Software Availability: Nov-2025

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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