



SPEC

SPEC CPU®2026 Integer Rate Result

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MINIS FORUM

(Test Sponsor: Arm)

MINISFORUM EliteMini AI370
(2GHz, AMD Ryzen AI 9 HX 370)

SPECrate®2026_int_base = 5.00

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9044

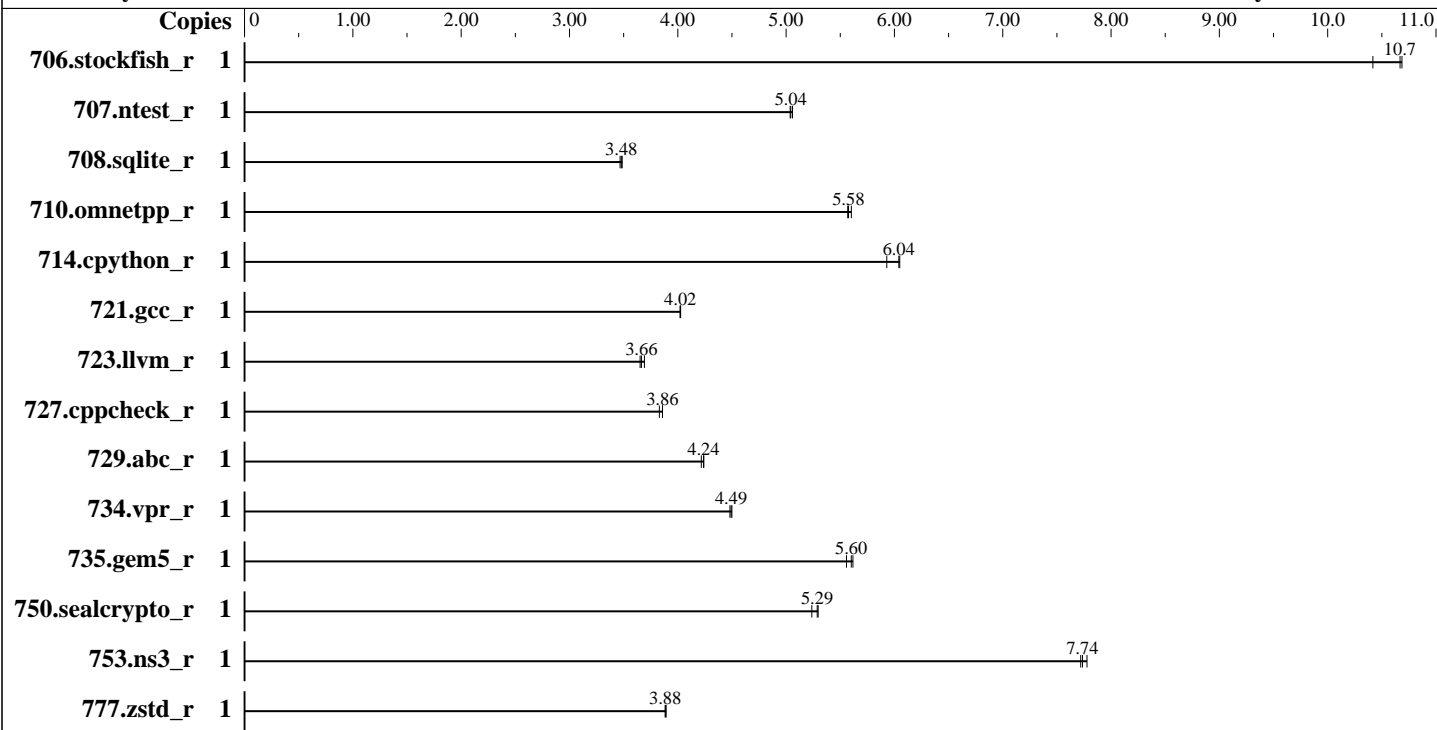
Test Sponsor: Arm

Tested by: Arm

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026



Hardware

CPU Name: AMD Ryzen AI 9 HX 370
 Max MHz: 5100
 Nominal: 2000
 Enabled: 12 (4x Zen5, 8x Zen5c) cores, 1 chip
 Orderable: 1 chips
 Cache L1: 32 KB I + 48 KB D on chip per core
 L2: 1 MB I+D on chip per core
 L3: 24 MB I+D on chip per chip, 16 MB shared / 4 Cores, 8 MB shared / 8 Cores
 Other: None
 Memory: 32 GB (4x8 LPDDR5X-7500MT/s)
 Storage: 1 x 931.5 GB NVMe SSD
 Cooling: Air
 Other: None

Software

OS: Ubuntu 24.04.3 LTS
 6.14.0-37-generic
 Compiler: C/C++/Fortran: Version 5.1.0 of AOCC, the AMD Optimizing C/C++ and Fortran Compiler
 Compiler Category: Vendor
 Firmware: Version 1.16 released Dec-2024
 File System: ext4
 System State: Run level 5 (graphical multi-user)
 Base Pointers: 64-bit
 Peak Pointers: Not Applicable
 Other: None
 Power Management: OS set to prefer performance at the cost of additional power usage



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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	1	121	10.4	118	10.7	<u>118</u>	<u>10.7</u>							
707.ntest_r	1	117	5.06	118	5.04	<u>117</u>	<u>5.04</u>							
708.sqlite_r	1	<u>152</u>	<u>3.48</u>	151	3.49	152	3.47							
710.omnetpp_r	1	86.7	5.60	<u>87.2</u>	<u>5.58</u>	87.3	5.57							
714.cpython_r	1	<u>79.3</u>	<u>6.04</u>	80.8	5.93	79.2	6.05							
721.gcc_r	1	171	4.02	170	4.03	<u>171</u>	<u>4.02</u>							
723.llvm_r	1	139	3.65	<u>138</u>	<u>3.66</u>	137	3.69							
727.cppcheck_r	1	<u>93.0</u>	<u>3.86</u>	93.0	3.86	93.7	3.83							
729.abc_r	1	108	4.24	<u>108</u>	<u>4.24</u>	109	4.22							
734.vpr_r	1	103	4.48	<u>103</u>	<u>4.49</u>	102	4.50							
735.gem5_r	1	<u>86.9</u>	<u>5.60</u>	86.7	5.62	87.6	5.56							
750.sealcrypto_r	1	<u>101</u>	<u>5.29</u>	101	5.30	102	5.24							
753.ns3_r	1	79.4	7.72	<u>79.2</u>	<u>7.74</u>	78.8	7.78							
777.zstd_r	1	166	3.88	165	3.89	<u>166</u>	<u>3.88</u>							

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

Compiler Notes

Compiler was retrieved from <https://www.amd.com/en/developer/aocc.html> in tar format

Submit Notes

The config file option 'submit' was used.

Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit
THP was enabled by running \$echo always | sudo tee /sys/kernel/mm/transparent_hugepage/enabled
SMT was disabled by running \$sudo sh -c 'echo off > /sys/devices/system/cpu/smt/control'
Performance governor was enabled by running \$cpupower frequency-set --governor performance

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH = "/opt/compilers/aocc/aocc-compiler-5.1.0/lib:/lib64:"



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Platform Notes

sysinfo program /home/fralov/Code/spec2026rc2/bin/sysinfo
Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on ct-cpu-soph-amd Thu Feb 5 11:36:01 2026

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

Table of contents

- 1. uname -srvm
- 2. w
- 3. Username
- 4. ulimit -a
- 5. sysinfo process ancestry
- 6. /proc/cpuinfo
- 7. lscpu
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- 9. /proc/meminfo
- 10. who -r
- 11. Systemd service manager version: systemd 255 (255.4-lubuntu8.12)
- 12. Failed units, from systemctl list-units --state=failed
- 13. Services, from systemctl list-unit-files
- 14. Linux kernel boot-time arguments, from /proc/cmdline
- 15. cpupower frequency-info
- 16. sysctl
- 17. /sys/kernel/mm/transparent_hugepage
- 18. /sys/kernel/mm/transparent_hugepage/khugepaged
- 19. OS release
- 20. Disk information
- 21. /sys/devices/virtual/dmi/id
- 22. dmidecode
- 23. BIOS

```
1. uname -srvm
Linux 6.14.0-37-generic #37~24.04.1-Ubuntu SMP PREEMPT_DYNAMIC Thu Nov 20 10:25:38 UTC 2 x86_64
```

```
2. w
11:36:01 up 12 days, 23:54, 2 users, load average: 0.00, 0.00, 0.00
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
fralov    -        10.34.111.189 11:25       2days     0.00s     0.02s     sshd: fralov [priv]
gdm       tty1    -             23Jan26 12days 6:05      ?         /usr/libexec/ibus-portal
```

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Platform Notes (Continued)

3. Username

From environment variable \$USER: root
From the command 'logname': fralov

4. ulimit -a

```
time(seconds)          unlimited
file(blocks)           unlimited
data(kbytes)           unlimited
stack(kbytes)          unlimited
coredump(blocks)      0
memory(kbytes)         unlimited
locked memory(kbytes) 3541012
process                109673
nofiles                1024
vmemory(kbytes)        unlimited
locks                  unlimited
rtprio                 0
```

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --system --deserialize=110 splash
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: fralov [priv]
sshd: fralov@pts/0
-zsh
sudo zsh
sudo zsh
zsh
runcpu --config=aocc-linux-x86-ratel.cfg --action=run --reportable intrate fprate --iterations=4
runcpu --configfile aocc-linux-x86-ratel.cfg --action run --reportable --iterations 4 --nopower --runmode
rate --tune base --size refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.028/templogs/preenv.intrate.028.0.log --lognum 028.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo -f
$SPEC = /home/fralov/Code/spec2026rc2
```

6. /proc/cpuinfo

```
model name      : AMD Ryzen AI 9 HX 370 w/ Radeon 890M
vendor_id      : AuthenticAMD
cpu family     : 26
model         : 36
stepping      : 0
microcode     : 0xb204019
bugs          : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso vmscape
TLB size     : 192 4K pages
cpu cores    : 12
```

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Platform Notes (Continued)

```

siblings          : 12
1 physical ids (chips)
12 processors (hardware threads)
physical id 0: core ids 0-3,8-15
physical id 0: apicids 0,2,4,6,16,18,20,22,24,26,28,30

```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

From lscpu from util-linux 2.39.3:

```

Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:         48 bits physical, 48 bits virtual
Byte Order:            Little Endian
CPU(s):                24
On-line CPU(s) list:   0-11
Off-line CPU(s) list: 12-23
Vendor ID:             AuthenticAMD
BIOS Vendor ID:        Advanced Micro Devices, Inc.
Model name:            AMD Ryzen AI 9 HX 370 w/ Radeon 890M
BIOS Model name:      AMD Ryzen AI 9 HX 370 w/ Radeon 890M      Unknown CPU @
                       2.0GHz
BIOS CPU family:       107
CPU family:            26
Model:                 36
Thread(s) per core:    1
Core(s) per socket:    12
Socket(s):             1
Stepping:              0
Frequency boost:       enabled
CPU(s) scaling MHz:    89%
CPU max MHz:           5157.0000
CPU min MHz:           0.0000
BogoMIPS:              4000.23

```

```

Flags:                  fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat
                       pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt
                       pdpe1gb rdtscp lm constant_tsc rep_good amd_lbr_v2 nopl xtopology
                       nonstop_tsc cpuid extd_apicid aperfmperf rapl pni pclmulqdq
                       monitor ssse3 fma cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx
                       f16c rdrand lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a
                       misalignsse 3dnowprefetch osvw ibs skinit wdt tce topoext
                       perfctr_core perfctr_nb bpext perfctr_llc mwaitx cpb cat_l3 cdp_l3
                       hw_pstate ssbd mba perfmon_v2 ibrs ibpb stibp ibrs_enhanced
                       vmmcall fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid cqm
                       rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb

```

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Platform Notes (Continued)

```

avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves
  cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local user_shstk
avx_vnni avx512_bf16 clzero irperf xsaveerptr rdpru wbnoinvd cppc
arat npt lbrv svm_lock nrip_save tsc_scale vmcb_clean flushbyasid
decodeassists pausefilter pfthreshold avic v_vmsave_vmload vgif
x2avic v_spec_ctrl vnmi avx512vbmi umip pku ospke avx512_vbmi2
gfni vaes vpclmulqdq avx512_vnni avx512_bitalg avx512_vpopcntdq
rdpid bus_lock_detect movdiri movdir64b overflow_recov succor smca
  fsrm avx512_vp2intersect flush_lld amd_lbr_pmc_freeze

```

```

Virtualization: AMD-V
L1d cache: 576 KiB (12 instances)
L1i cache: 384 KiB (12 instances)
L2 cache: 12 MiB (12 instances)
L3 cache: 24 MiB (2 instances)
NUMA node(s): 1
NUMA node0 CPU(s): 0-11
Vulnerability Gather data sampling: Not affected
Vulnerability Ghostwrite: 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: Mitigation; IBPB on VMEXIT only
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer
  sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP
  always-on; PBRBS-eIBRS Not affected; BHI Not affected
Vulnerability Srbds: Not affected
Vulnerability Tsa: Not affected
Vulnerability Tsx async abort: Not affected
Vulnerability Vmscape: Mitigation; IBPB on VMEXIT

```

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	576K	12	Data	1	64	1	64
L1i	32K	384K	8	Instruction	1	64	1	64
L2	1M	12M	16	Unified	2	1024	1	64
L3	16M	24M	16	Unified	3	16384	1	64

8. numactl --hardware

NOTE: a numactl 'node' might or might not correspond to a physical chip.

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Platform Notes (Continued)

```

available: 1 nodes (0)
node 0 cpus: 0-11
node 0 size: 27664 MB
node 0 free: 1775 MB
node distances:
node    0
  0:    10

```

```

-----
9. /proc/meminfo
   MemTotal:      28328100 kB

```

```

-----
10. who -r
    run-level 5 Jan 23 11:42

```

```

-----
11. Systemd service manager version: systemd 255 (255.4-lubuntu8.12)
    Default Target    Status
    graphical         degraded

```

```

-----
12. Failed units, from systemctl list-units --state=failed
    UNIT                                LOAD    ACTIVE SUB    DESCRIPTION
* snap-firefox-7672.mount not-found failed failed snap-firefox-7672.mount
Legend: LOAD    -> Reflects whether the unit definition was properly loaded.
        ACTIVE -> The high-level unit activation state, i.e. generalization of SUB.
        SUB    -> The low-level unit activation state, values depend on unit type.
1 loaded units listed.

```

```

-----
13. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled ModemManager NetworkManager NetworkManager-dispatcher NetworkManager-wait-online
accounts-daemon anacron apparmor apport avahi-daemon bluetooth cloud-config cloud-final
cloud-init cloud-init-local console-setup cron cups cups-browsed dmesg e2scrub_reap getty@
gnome-remote-desktop gpu-manager grub-common grub-initrd-fallback kerneloops
keyboard-setup networkd-dispatcher openvpn power-profiles-daemon rsyslog secureboot-db
setvtrgb snapd ssh ssl-cert sssd switcheroo-control sysstat systemd-oom systemd-pstore
systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw
unattended-upgrades wpa_supplicant
enabled-runtime netplan-ovs-cleanup systemd-fsck-root systemd-remount-fs
disabled brltty console-getty debug-shell nftables openvpn-client@ openvpn-server@ openvpn@ rsync
rtkit-daemon serial-getty@ speech-dispatcherd 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

```

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Platform Notes (Continued)

```

systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysext
systemd-time-wait-sync upower wpa_supplicant-nl80211@ wpa_supplicant-wired@
wpa_supplicant@
generated speech-dispatcher
indirect saned@ spice-vdagentd sssd-autofs sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo
systemd-sysupdate systemd-sysupdate-reboot uuidd
masked alsa-utils cryptdisks cryptdisks-early hwclock saned sudo x11-common

```

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

```

BOOT_IMAGE=/boot/vmlinuz-6.14.0-37-generic
root=UUID=5136668a-0005-4623-86d6-f99bc0eecl1e
ro
quiet
splash
vt.handoff=7

```

15. cpupower frequency-info

```

analyzing CPU 9:
  current policy: frequency should be within 1.39 GHz and 3.29 GHz.
                   The governor "performance" may decide which speed to use
                   within this range.

boost state support:
  Supported: yes
  Active: yes

```

16. sysctl

```

kernel.numa_balancing          0
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.nr_hugepages                0
vm.nr_hugepages_mempolicy      0
vm.nr_overcommit_hugepages     0
vm.swappiness                   60
vm.watermark_boost_factor      15000
vm.watermark_scale_factor      10

```

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Platform Notes (Continued)

vm.zone_reclaim_mode 0

```

-----
17. /sys/kernel/mm/transparent_hugepage
defrag          always defer defer+madvice [madvice] never
enabled         [always] madvice never
hpage_pmd_size 2097152
shmem_enabled  always within_size advise [never] deny force

```

```

-----
18. /sys/kernel/mm/transparent_hugepage/khugepaged
alloc_sleep_millisecs 60000
defrag                 1
max_ptes_none         511
max_ptes_shared       256
max_ptes_swap         64
pages_to_scan         4096
scan_sleep_millisecs 10000

```

```

-----
19. OS release
From /etc/*-release /etc/*-version
os-release Ubuntu 24.04.3 LTS

```

```

-----
20. Disk information
SPEC is set to: /home/fralov/Code/spec2026rc2
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p2 ext4  915G  320G  549G  37% /

```

```

-----
21. /sys/devices/virtual/dmi/id
Vendor:          Micro Computer (HK) Tech Limited
Product:         EliteMini Series
Product Family: EliteMini
Serial:          YY516VA370EDMPE00080

```

```

-----
22. dmidecode
Additional information from dmidecode 3.5 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.
Memory:
  4x Micron Technology MT62F2G32D4DS-026 WT 8 GB 2 rank 7500

```

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Platform Notes (Continued)

23. BIOS

(This section combines info from /sys/devices and dmidecode.)

BIOS Vendor: American Megatrends International, LLC.

BIOS Version: 1.16

BIOS Date: 12/26/2024

BIOS Revision: 1.16

Firmware Revision: 1.16

Compiler Version Notes

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

AMD clang version 17.0.6 (CLANG: AOCC_5.1.0-Build#1994 2025_12_23)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/compilers/aocc/aocc-compiler-5.1.0/bin
=====

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

AMD clang version 17.0.6 (CLANG: AOCC_5.1.0-Build#1994 2025_12_23)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/compilers/aocc/aocc-compiler-5.1.0/bin
=====

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

AMD clang version 17.0.6 (CLANG: AOCC_5.1.0-Build#1994 2025_12_23)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/compilers/aocc/aocc-compiler-5.1.0/bin
=====

Base Compiler Invocation

C benchmarks:

clang

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Base Compiler Invocation (Continued)

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

Base Portability Flags

706.stockfish_r: -DSPEC_LP64
 707.ntest_r: -DSPEC_LP64
 708.sqlite_r: -DSPEC_LP64
 710.omnetpp_r: -fno-fast-math -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
 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

Base Optimization Flags

C benchmarks:

-m64 -std=c18 -g -ffast-math -flto=full -O3 -march=native

C++ benchmarks:

-m64 -std=c++17 -g -ffast-math -flto=full -O3 -march=native

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -g -ffast-math -flto=full -O3
-march=native

The flags files that were used to format this result can be browsed at

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

<http://www.spec.org/cpu2026/results/flags/Minisforum-Platform-Settings-AMD-rev2.html>



SPEC

SPEC CPU®2026 Integer Rate Result

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MINIS FORUM

(Test Sponsor: Arm)

MINISFORUM EliteMini AI370
(2GHz, AMD Ryzen AI 9 HX 370)

SPECrate®2026_int_base = 5.00

SPECrate®2026_int_peak = Not Run

CPU2026 License: 9044

Test Sponsor: Arm

Tested by: Arm

Test Date: Feb-2026

Hardware Availability: Jul-2025

Software Availability: Jan-2026

You can also download the XML flags sources by saving the following links:

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

<http://www.spec.org/cpu2026/results/flags/Minisforum-Platform-Settings-AMD-rev2.xml>

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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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