



SPEC CPU®2026 Floating Point Rate Result

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MINIS FORUM

(Test Sponsor: Arm)

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

SPECrate®2026_fp_base = 8.59

SPECrate®2026_fp_peak = Not Run

CPU2026 License: 9044

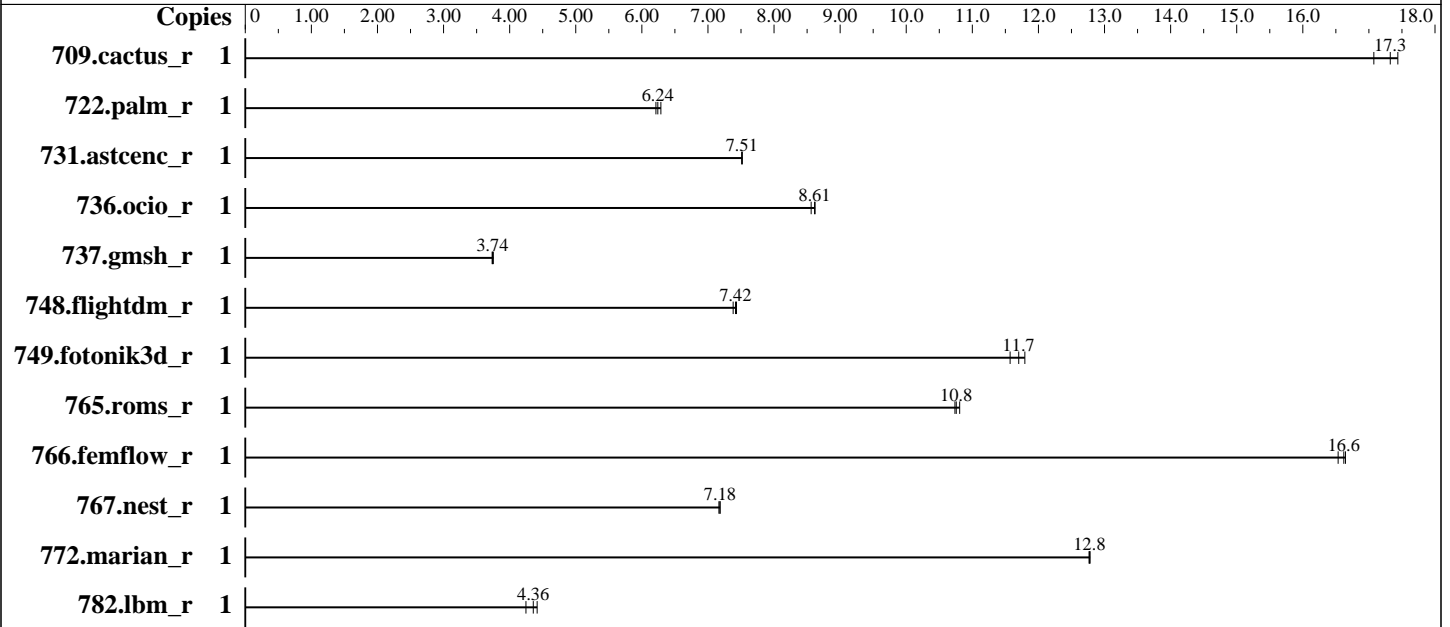
Test Sponsor: Arm

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
709.cactus_r	1	50.2	17.1	<u>49.5</u>	<u>17.3</u>	49.2	17.4							
722.palm_r	1	212	6.21	210	6.29	<u>211</u>	<u>6.24</u>							
731.ascenc_r	1	112	7.51	<u>112</u>	<u>7.51</u>	112	7.52							
736.ocio_r	1	102	8.56	<u>102</u>	<u>8.61</u>	101	8.62							
737.gmsh_r	1	122	3.75	<u>123</u>	<u>3.74</u>	123	3.73							
748.flightdm_r	1	<u>96.5</u>	<u>7.42</u>	96.3	7.43	97.0	7.38							
749.fotonik3d_r	1	99.9	11.6	<u>98.8</u>	<u>11.7</u>	98.0	11.8							
765.roms_r	1	147	10.7	146	10.8	<u>146</u>	<u>10.8</u>							
766.femflow_r	1	<u>88.3</u>	<u>16.6</u>	88.7	16.5	88.1	16.6							
767.nest_r	1	<u>110</u>	<u>7.18</u>	111	7.17	110	7.18							
772.marian_r	1	124	12.8	<u>124</u>	<u>12.8</u>	124	12.8							
782.lbm_r	1	135	4.25	<u>132</u>	<u>4.36</u>	130	4.42							

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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:"

Platform Notes

sysinfo program /home/fralov/Code/spec2026rc2/bin/sysinfo

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Platform Notes (Continued)

Rev: 069f95da7e7f5d81b2ce48a82150e54f
running on ct-cpu-soph-amd Thu Feb 5 13:04:41 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
8. numactl --hardware
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
13:04:41 up 13 days, 1:22, 3 users, load average: 1.00, 1.00, 1.00
USER      TTY      FROM          LOGIN@      IDLE        JCPU       PCPU       WHAT
rorhol01  -        10.57.55.9   12:42      2days    0.00s     0.01s    sshd: rorhol01 [priv]
gdm       tty1    -            23Jan26   13days   6:07      ?        /usr/libexec/ibus-portal
```

```
3. Username
From environment variable $USER: root
```

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Platform Notes (Continued)

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
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 fprate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.028/templogs/preenv.fprate.028.1.log --lognum 028.1 --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
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.

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Platform Notes (Continued)

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:          94%
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
                              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 cpc
                              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

```

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Platform Notes (Continued)

```

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/swaps barriers and __user pointer
sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP
always-on; PBRSE-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.

```

available: 1 nodes (0)
node 0 cpus: 0-11
node 0 size: 27664 MB
node 0 free: 1865 MB
node distances:
node 0
0: 10

```

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Platform Notes (Continued)

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-oomd 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 systemd-pcrlock-secureboot-authority systemd-pcrlock-secureboot-policy systemd-sysextd 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 uidd
masked	alsa-utils cryptdisks cryptdisks-early hwclock saned sudo x11-common

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Platform Notes (Continued)

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 4:
  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
vm.zone_reclaim_mode           0
```

17. /sys/kernel/mm/transparent_hugepage

```
defrag          always defer defer+madvise [madvise] never
enabled         [always] madvise never
hpage_pmd_size  2097152
shmem_enabled   always within_size advise [never] deny force
```

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Platform Notes (Continued)

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

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

```



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Compiler Version Notes

=====
C | 782.lbm_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++ | 731.astcenc_r(base) 736.ocio_r(base) 748.flightdm_r(base)
766.femflow_r(base) 767.nest_r(base) 772.marian_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 | 709.cactus_r(base) 737.gmsh_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

=====
Fortran | 722.palm_r(base) 749.fotonik3d_r(base) 765.roms_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

C++ benchmarks:

clang++

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Base Compiler Invocation (Continued)

Fortran benchmarks:

flang

Benchmarks using both C and C++:

clang++ clang

Base 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
 737.gmsh_r: -fno-unsafe-math-optimizations -DSPEC_LP64
 748.flightdm_r: -fno-reciprocal-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

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

Fortran benchmarks:

-m64 -std=f2018 -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 CPU®2026 Floating Point Rate Result

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MINIS FORUM

(Test Sponsor: Arm)

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

SPECrate®2026_fp_base = 8.59

SPECrate®2026_fp_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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