



SPEC CPU®2026 Integer Rate Result

Copyright 2026 Standard Performance Evaluation Corporation

Fsas Technologies Inc.

(Test Sponsor: Fujitsu)

PRIMERGY RX1440 M2,
AMD EPYC 9825, 2.20 GHz

SPECrate®2026_int_base = 499

SPECrate®2026_int_peak = Not Run

CPU2026 License: 19

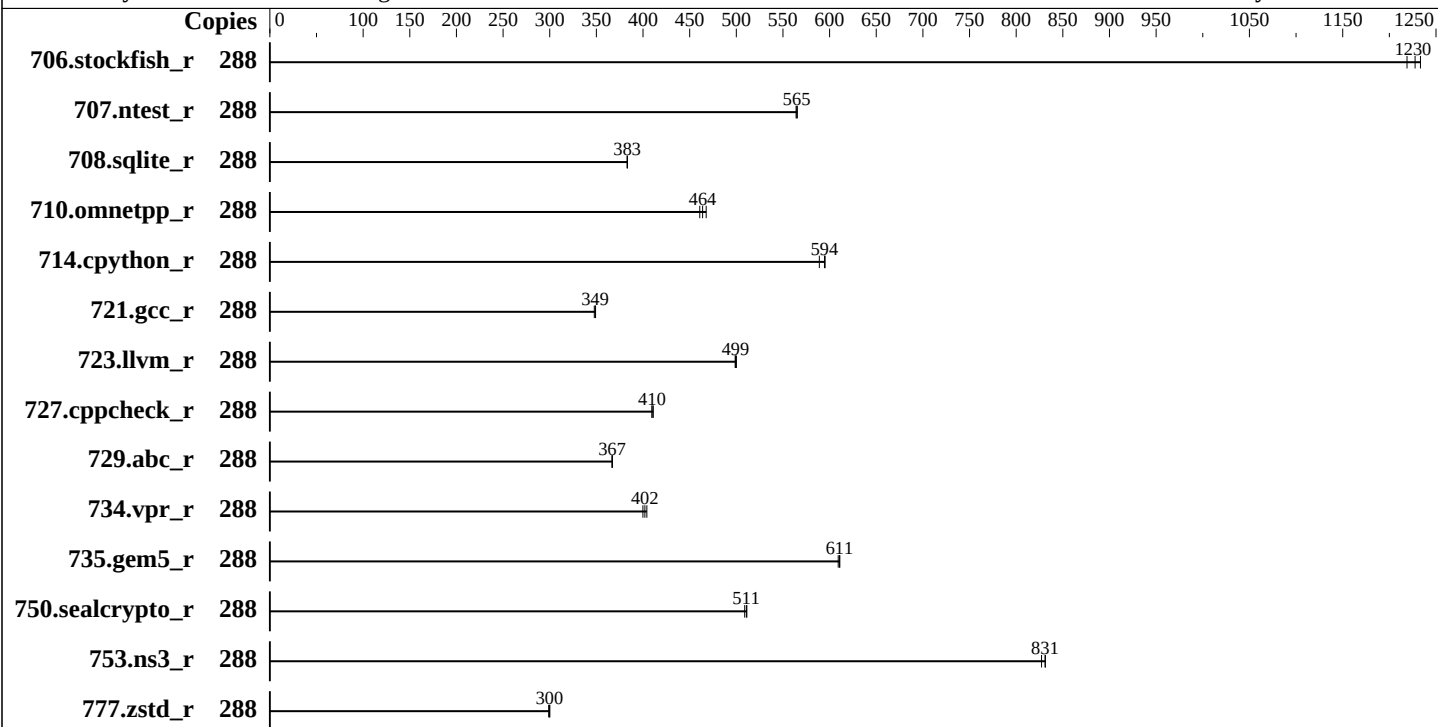
Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: Aug-2026

Hardware Availability: Oct-2026

Software Availability: Jan-2026



Hardware

CPU Name: AMD EPYC 9825
Max MHz: 3700
Nominal: 2200
Enabled: 144 cores, 1 chip, 2 threads/core
Orderable: 1 chip
Cache L1: 32 KB I + 48 KB D on chip per core
L2: 1 MB I+D on chip per core
L3: 384 MB I+D on chip per chip, 32 MB shared / 12 cores
Other: None
Memory: 768 GB (12 x 64 GB 2Rx4 PC5-6400B-R, running at 5200)
Storage: 1 x SATA SSD, 960 GB
Cooling: Air
Other: None

Software

OS: SUSE Linux Enterprise Server 15 SP6
kernel version 6.4.0-150600.23.22-default
Compiler: C/C++/Fortran: Version 5.1.0 of AOCC
Compiler Category: Vendor
Firmware: Fujitsu BIOS Version V5.0.0.35 R2.13.0 for D4130-A1x. Released Aug-2026
tested as V5.0.0.35 R2.12.0 for D4130-A1x Apr-2026
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other: None
Power Management: BIOS and 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	288	294	1230	298	1220	<u>296</u>	<u>1230</u>							
707.ntest_r	288	302	565	302	564	<u>302</u>	<u>565</u>							
708.sqlite_r	288	397	383	<u>397</u>	<u>383</u>	397	383							
710.omnetpp_r	288	304	461	299	468	<u>302</u>	<u>464</u>							
714.cpython_r	288	<u>232</u>	<u>594</u>	234	589	232	595							
721.gcc_r	288	566	349	568	348	<u>566</u>	<u>349</u>							
723.llvm_r	288	293	499	292	500	<u>293</u>	<u>499</u>							
727.cppcheck_r	288	252	410	<u>252</u>	<u>410</u>	252	411							
729.abc_r	288	360	367	360	367	<u>360</u>	<u>367</u>							
734.vpr_r	288	329	404	<u>330</u>	<u>402</u>	332	400							
735.gem5_r	288	<u>230</u>	<u>611</u>	230	611	230	609							
750.sealcrypto_r	288	<u>302</u>	<u>511</u>	303	509	302	511							
753.ns3_r	288	<u>212</u>	<u>831</u>	212	831	213	827							
777.zstd_r	288	<u>619</u>	<u>300</u>	618	300	621	299							

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

Compiler Notes

The AMD64 AOCC Compiler Suite is available at
<http://developer.amd.com/amd-aocc/>

Submit Notes

The config file option 'submit' was used.
'numactl' was used to bind copies to the cores.
See the configuration file for details.

Operating System Notes

'ulimit -s unlimited' was used to set environment stack size limit
'ulimit -l 2097152' was used to set environment locked pages in memory limit
runcpu command invoked through numactl i.e.:
numactl --interleave=all runcpu <etc>
To limit dirty cache to 8% of memory, 'sysctl -w vm.dirty_ratio=8' run as root.
To limit swap usage to minimum necessary, 'sysctl -w vm.swappiness=1' run as root.
To free non-local memory and avoid remote memory usage,
'sysctl -w vm.zone_reclaim_mode=1' run as root.
To clear filesystem caches, 'sync; sysctl -w vm.drop_caches=3' run as root.
To disable address space layout randomization (ASLR) to reduce run-to-run

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Operating System Notes (Continued)

variability, 'sysctl -w kernel.randomize_va_space=0' run as root.
To enable Transparent Hugepages (THP) for all allocations,
'echo always > /sys/kernel/mm/transparent_hugepage/enabled' and
'echo always > /sys/kernel/mm/transparent_hugepage/defrag' run as root.

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
LD_LIBRARY_PATH =
"/home/Benchmark/cpu2026-1.0.1/amd_rate_aocc510_znver5_B_lib/lib:/home/Benchmark/cpu2026-1.0.1/amd_rate_aocc510_znver5_B_lib/lib32:"
MALLOCCONF = "retain:true"

General Notes

Binaries were compiled on a system with 2x AMD EPYC Venice256 CPU + 2TiB Memory using Ubuntu 24.04

Platform Notes

BIOS configuration:
L1 Stride Prefetcher = Disabled
L2 Up/Down Prefetcher = Disabled
Determinism Slider = Power
TDP Control = Manual
TDP Limit = 400
Package Power Limit Control = Manual
Package Power Limit = 400
Power Profile Selection = High Performance
NUMA nodes per socket = NPS4
Probe Filter Organization = Shared
FAN Control = Full

Sysinfo program /home/Benchmark/cpu2026-1.0.1/bin/sysinfo
Rev: 779ab21020787073335a329f3a45e2cd
running on localhost Sat Aug 8 06:00:06 2026

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

Table of contents

1. uname -srvvm
2. w
3. Username

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Platform Notes (Continued)

```
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 254 (254.10+suse.84.ge8d77af424)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS
```

```
-----
1. uname -srvm
```

```
Linux 6.4.0-150600.23.22-default #1 SMP PREEMPT_DYNAMIC Fri Sep 13 10:42:50 UTC 2024 (5c05eeb) x86_64
```

```
-----
2. w
```

```
06:00:06 up 3 min,  1 user,  load average: 0.49, 0.55, 0.26
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
root      tty1      -               05:58    28.00s  4.72s  3.58s python3
./run_amd_rate_aocc510_znver5_B1_intrrate.py
```

```
-----
3. Username
```

```
From environment variable $USER:  root
```

```
-----
4. ulimit -a
```

```
core file size          (blocks, -c) unlimited
data seg size           (kbytes, -d) unlimited
scheduling priority     (-e) 0
file size               (blocks, -f) unlimited
pending signals         (-i) 3090342
max locked memory       (kbytes, -l) 2048
max memory size         (kbytes, -m) unlimited
open files              (-n) 1024
pipe size               (512 bytes, -p) 8
```

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Platform Notes (Continued)

POSIX message queues (bytes, -q) 819200
real-time priority (-r) 0
stack size (kbytes, -s) unlimited
cpu time (seconds, -t) unlimited
max user processes (-u) 3090342
virtual memory (kbytes, -v) unlimited
file locks (-x) unlimited

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=42
login -- root
-bash
-bash
python3 ./run_amd_rate_aocc510_znver5_B1_intrate.py
runcpu --config amd_rate_aocc510_znver5_B1.cfg --tune base --reportable --iterations 3 intrate
runcpu --configfile amd_rate_aocc510_znver5_B1.cfg --tune base --reportable --iterations 3 --nopower
--runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2026.002/templogs/preenv.intrate.002.0.log --lognum 002.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/Benchmark/cpu2026-1.0.1
```

6. /proc/cpuinfo

```
model name      : AMD EPYC 9825 144-Core Processor
vendor_id       : AuthenticAMD
cpu family      : 26
model           : 17
stepping        : 0
microcode       : 0xb101059
bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size        : 192 4K pages
cpu cores       : 144
siblings        : 288
1 physical ids (chips)
288 processors (hardware threads)
physical id 0: core ids 0-11,16-27,32-43,48-59,64-75,80-91,96-107,112-123,128-139,144-155,160-171,176-187
physical id 0: apicids
0-23,32-55,64-87,96-119,128-151,160-183,192-215,224-247,256-279,288-311,320-343,352-375
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

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Platform Notes (Continued)

CPU op-mode(s):	32-bit, 64-bit
Address sizes:	52 bits physical, 57 bits virtual
Byte Order:	Little Endian
CPU(s):	288
On-line CPU(s) list:	0-287
Vendor ID:	AuthenticAMD
BIOS Vendor ID:	Advanced Micro Devices, Inc.
Model name:	AMD EPYC 9825 144-Core Processor
BIOS Model name:	AMD EPYC 9825 144-Core Processor
BIOS CPU family:	107
CPU family:	26
Model:	17
Thread(s) per core:	2
Core(s) per socket:	144
Socket(s):	1
Stepping:	0
Frequency boost:	enabled
CPU(s) scaling MHz:	61%
CPU max MHz:	3714.6479
CPU min MHz:	1500.0000
BogoMIPS:	4393.52
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 nonstop_tsc cpuid extd_apicid aperfmperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic 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 amd_ppin 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 la57 rdpid bus_lock_detect movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect flush_lld debug_swap amd_lbr_pmc_freeze
Virtualization:	AMD-V
L1d cache:	6.8 MiB (144 instances)
L1i cache:	4.5 MiB (144 instances)
L2 cache:	144 MiB (144 instances)
L3 cache:	384 MiB (12 instances)
NUMA node(s):	4

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Platform Notes (Continued)

NUMA node0 CPU(s): 0-35,144-179
NUMA node1 CPU(s): 36-71,180-215
NUMA node2 CPU(s): 72-107,216-251
NUMA node3 CPU(s): 108-143,252-287
Vulnerability Gather data sampling: 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; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP
always-on; RSB filling; PBRSE-eIBRS Not affected; BHI Not affected
Vulnerability Srbds: Not affected
Vulnerability Tsx async abort: Not affected

From lscpu --cache:

NAME	ONE-SIZE	ALL-SIZE	WAYS	TYPE	LEVEL	SETS	PHY-LINE	COHERENCY-SIZE
L1d	48K	6.8M	12	Data	1	64	1	64
L1i	32K	4.5M	8	Instruction	1	64	1	64
L2	1M	144M	16	Unified	2	1024	1	64
L3	32M	384M	16	Unified	3	32768	1	64

8. numactl --hardware

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

available: 4 nodes (0-3)
node 0 cpus: 0-35,144-179
node 0 size: 192589 MB
node 0 free: 191527 MB
node 1 cpus: 36-71,180-215
node 1 size: 193517 MB
node 1 free: 192646 MB
node 2 cpus: 72-107,216-251
node 2 size: 193517 MB
node 2 free: 192565 MB
node 3 cpus: 108-143,252-287
node 3 size: 192988 MB
node 3 free: 192067 MB
node distances:
node 0 1 2 3
0: 10 12 12 12
1: 12 10 12 12

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Platform Notes (Continued)

2: 12 12 10 12
3: 12 12 12 10

9. /proc/meminfo

MemTotal: 791154392 kB

10. who -r

run-level 3 Aug 8 05:57

11. Systemd service manager version: systemd 254 (254.10+suse.84.ge8d77af424)

Default Target	Status
multi-user	running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
-------	------------

enabled	YaST2-Firstboot YaST2-Second-Stage apparmor auditd cron display-manager getty@ irqbalance iscsi issue-generator kbdsettings kdump kdump-early kdump-notify klog lvm2-monitor nsd postfix purge-kernels rollback rsyslog smartd sshd systemd-pstore virtqemud wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
---------	---

enabled-runtime	systemd-remount-fs
-----------------	--------------------

disabled	autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait chronyd console-getty cups cups-browsed debug-shell dnsmasq ebttables exchange-bmc-os-info firewallld fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievd iscsi-init iscsid issue-add-ssh-keys kexec-load ksm kvm_stat libvirt-guests lunmask man-db-create multipathd nfs nfs-blkmap nfs-server nfsserver rpcbind rpmconfigcheck rsyncd serial-getty@ smartd_generate_opts snmpd snmptrapd strongswan strongswan-starter svnservice systemd-boot-check-no-failures systemd-conext systemd-network-generator systemd-nspawn@ systemd-sysexit systemd-time-wait-sync systemd-timesyncd tcscd udisks2 virtinterfaced virtlockd virtlogd virtnetworkd virtnodedevd virtnwfilterd virtsecret d virtstoraged vncserver@
----------	---

indirect	pcscd systemd-userdbd tftp wickedd
----------	------------------------------------

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

BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.23.22-default
root=UUID=874a8456-2509-4663-baf4-1f501264c5d3
splash=silent
mitigations=auto
quiet
security=apparmor
crashkernel=384M,high
crashkernel=72M,low

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Platform Notes (Continued)

14. cpupower frequency-info

analyzing CPU 199:

current policy: frequency should be within 1.50 GHz and 2.20 GHz.

The governor "performance" may decide which speed to use
within this range.

boost state support:

Supported: yes

Active: yes

15. sysctl

kernel.numa_balancing	1
kernel.randomize_va_space	0
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	8
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	1
vm.watermark_boost_factor	15000
vm.watermark_scale_factor	10
vm.zone_reclaim_mode	1

16. /sys/kernel/mm/transparent_hugepage

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

17. /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

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Platform Notes (Continued)

scan_sleep_millisecs 10000

18. OS release

From /etc/*-release /etc/*-version

os-release SUSE Linux Enterprise Server 15 SP6

19. Disk information

SPEC is set to: /home/Benchmark/cpu2026-1.0.1

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda3	xfs	851G	180G	672G	22%	/home

20. /sys/devices/virtual/dmi/id

Vendor: FUJITSU

Product: PRIMERGY RX1440 M2

Product Family: SERVER

Serial: XXXXXXXXXXXX

21. dmidecode

Additional information from dmidecode 3.4 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:

12x Micron Technology MTC40F2046S1RC64BD2 MWFF 64 GB 2 rank 6400, configured at 5200

22. BIOS

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

BIOS Vendor: FUJITSU // American Megatrends Inc.

BIOS Version: V5.0.0.35 R2.12.0 for D4130-A1x

BIOS Date: 04/13/2026

BIOS Revision: 2.12

Firmware Revision: 2.49

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

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Compiler Version Notes (Continued)

Thread model: posix

InstalledDir: /opt/AMD/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/AMD/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/AMD/aocc/aocc-compiler-5.1.0/bin

Base Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Benchmarks using both C and C++:

clang++ clang

Base Optimization Flags

C benchmarks:

```
-m64 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-ldist-scalar-expand -fenable-aggressive-gather  
-Wl,-mllvm -Wl,-extra-inliner -O3 -march=znver5 -fvecLib=AMDLIBM  
-fno-PIE -no-pie -flto -fstruct-layout=7 -mllvm -unroll-threshold=50  
-mllvm -inline-threshold=1000 -fremap-arrays -fstrip-mining
```

(Continued on next page)



SPEC CPU®2026 Integer Rate Result

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Fsas Technologies Inc.

(Test Sponsor: Fujitsu)

PRIMERGY RX1440 M2,
AMD EPYC 9825, 2.20 GHz

SPECrate®2026_int_base = 499

SPECrate®2026_int_peak = Not Run

CPU2026 License: 19

Test Sponsor: Fujitsu

Tested by: Fsas Technologies Inc.

Test Date: Aug-2026

Hardware Availability: Oct-2026

Software Availability: Jan-2026

Base Optimization Flags (Continued)

C benchmarks (continued):

-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lflang
-lamdalloc

C++ benchmarks:

-m64 -std=c++17 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5
-fveclib=AMDLIBM -flto -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt -fno-PIE -no-pie
-fvirtual-function-elimination -fvisibility=hidden -lamdlibm -lflang
-lamdalloc

Benchmarks using both C and C++:

-m64 -std=c++17 -std=c18 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5
-fveclib=AMDLIBM -fno-PIE -no-pie -flto -fstruct-layout=7
-mllvm -unroll-threshold=50 -mllvm -inline-threshold=1000
-fremap-arrays -fstrip-mining -mllvm -reduce-array-computations=3
-zopt -mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000 -fvirtual-function-elimination
-fvisibility=hidden -lamdlibm -lflang -lamdalloc

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.00.html>

<http://www.spec.org/cpu2026/results/flags/Fujitsu-Platform-Settings-V1.0-Turin-RevF.html>

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

<http://www.spec.org/cpu2026/results/flags/aocc-flags.2026-05-04.00.xml>

<http://www.spec.org/cpu2026/results/flags/Fujitsu-Platform-Settings-V1.0-Turin-RevF.xml>

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