



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

**SPECrate®2017\_fp\_base = 1030**

**SPECrate®2017\_fp\_peak = 1090**

CPU2017 License: 6488

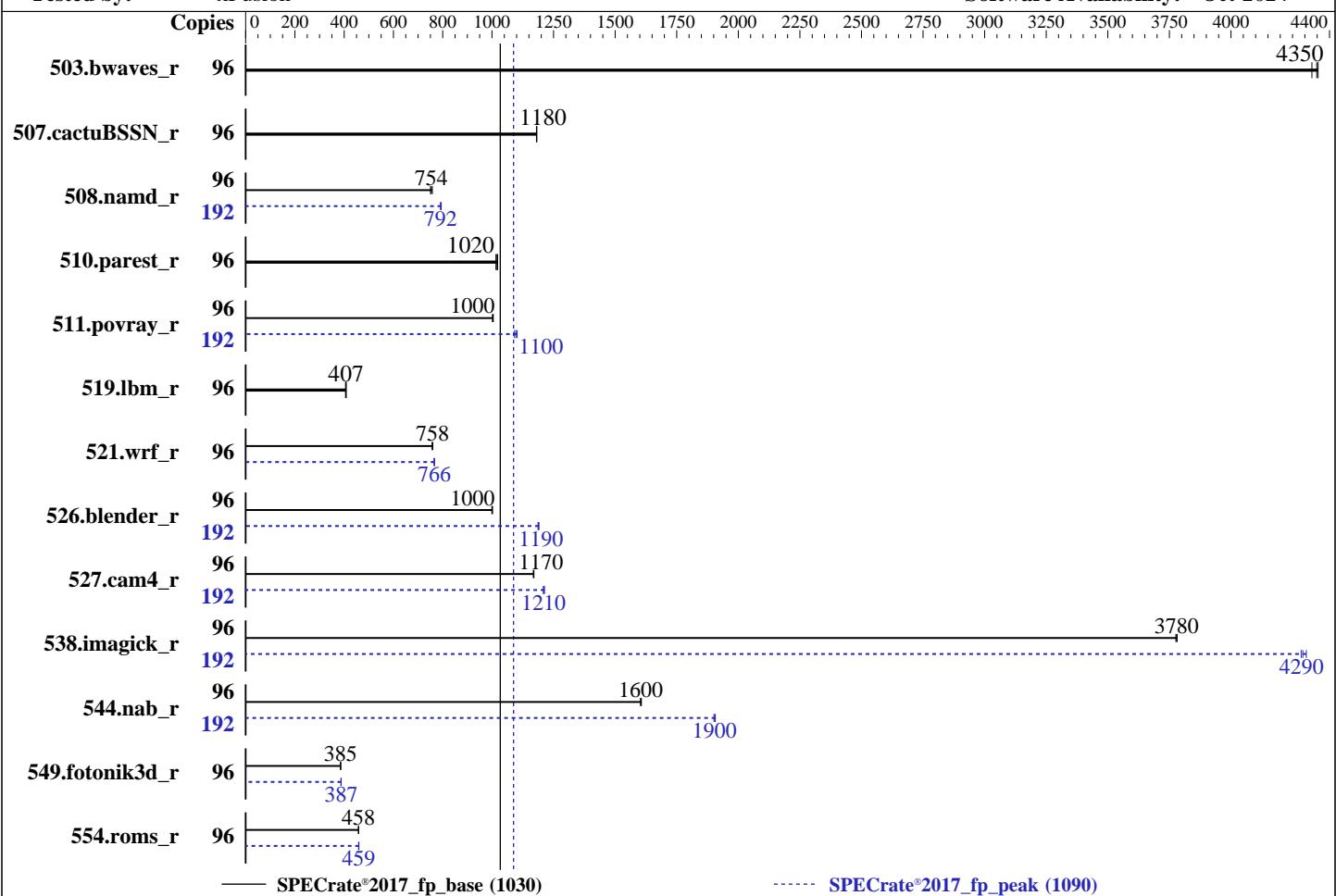
**Test Date:** May-2025

**Test Sponsor:** xFusion

**Hardware Availability:** Oct-2024

**Tested by:** xFusion

**Software Availability:** Oct-2024



Hardware		Software	
CPU Name:	AMD EPYC 9655	OS:	Ubuntu 24.04 LTS
Max MHz:	4500	Compiler:	6.8.0-38-generic
Nominal:	2600	Parallel:	C/C++/Fortran: Version 5.0.0 of AOCC
Enabled:	96 cores, 1 chip, 2 threads/core	Firmware:	No
Orderable:	1 chip	File System:	Version 00.13.01.05 released Feb-2025
Cache L1:	32 KB I + 48 KB D on chip per core	System State:	ext4
L2:	1 MB I+D on chip per core	Base Pointers:	Run level 5 (multi-user)
L3:	384 MB I+D on chip per chip, 32 MB shared / 8 cores	Peak Pointers:	64-bit
Other:	None	Other:	64-bit
Memory:	768 GB (12 x 64 GB 2Rx4 PC5-6400B-R)	Power Management:	None
Storage:	1 x 1.6 TB PCIe NVMe SSD		BIOS and OS set to prefer performance at the cost of additional power usage
Other:	CPU Cooling: Air		



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r	96	<b>221</b>	<b>4350</b>	222	4330	221	4350	96	<b>221</b>	<b>4350</b>	222	4330	221	4350
507.cactubSSN_r	96	<b>103</b>	<b>1180</b>	103	1180	103	1180	96	<b>103</b>	<b>1180</b>	103	1180	103	1180
508.namd_r	96	122	751	<b>121</b>	<b>754</b>	120	758	192	<b>230</b>	<b>792</b>	230	794	230	791
510.parest_r	96	<b>246</b>	<b>1020</b>	247	1020	246	1020	96	<b>246</b>	<b>1020</b>	247	1020	246	1020
511.povray_r	96	223	1010	224	1000	<b>223</b>	<b>1000</b>	192	<b>409</b>	<b>1100</b>	407	1100	411	1090
519.lbm_r	96	<b>248</b>	<b>407</b>	250	406	248	408	96	<b>248</b>	<b>407</b>	250	406	248	408
521.wrf_r	96	283	759	<b>284</b>	<b>758</b>	284	757	96	<b>281</b>	<b>766</b>	281	765	281	766
526.blender_r	96	<b>146</b>	<b>1000</b>	146	1000	146	999	192	<b>246</b>	<b>1190</b>	246	1190	246	1190
527.cam4_r	96	<b>144</b>	<b>1170</b>	143	1170	144	1170	192	278	1210	<b>278</b>	<b>1210</b>	277	1210
538.imagick_r	96	63.2	3780	63.1	3780	<b>63.2</b>	<b>3780</b>	192	<b>111</b>	<b>4290</b>	111	4280	111	4310
544.nab_r	96	<b>101</b>	<b>1600</b>	101	1610	101	1600	192	<b>170</b>	<b>1900</b>	170	1900	169	1910
549.fotonik3d_r	96	971	385	<b>971</b>	<b>385</b>	970	386	96	<b>966</b>	<b>387</b>	967	387	965	388
554.roms_r	96	333	458	333	458	<b>333</b>	<b>458</b>	96	333	458	<b>332</b>	<b>459</b>	332	460

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

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  
The kernel stops sending timer ticks to CPUs by using "nohz\_full=1-383"  
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 node-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  
variability, 'sysctl -w kernel.randomize\_va\_space=0' run as root.

To enable Transparent Hugepages (THP) for all allocations,

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Operating System Notes (Continued)

```
'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/cpu2017/amd_rate_aocc500_znver5_A_lib/lib:/home/cpu2017/amd_rate_aocc500_znver5_A_lib/lib32:  
MALLOC_CONF = "retain:true"
```

## General Notes

Binaries were compiled on a system with 2x AMD EPYC 9174F CPU + 1.5TiB Memory using RHEL 8.6

NA: The test sponsor attests, as of date of publication, that CVE-2017-5754 (Meltdown) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5753 (Spectre variant 1) is mitigated in the system as tested and documented.

Yes: The test sponsor attests, as of date of publication, that CVE-2017-5715 (Spectre variant 2) is mitigated in the system as tested and documented.

## Platform Notes

BIOS settings:  
Determinism Control = Manual  
Determinism Enable = Power  
TDP Control = Manual  
TDP = 500  
PPT Control = Manual  
PPT = 500  
NUMA Nodes Per Socket = Auto  
ACPI SRAT L3 Cache As NUMA Domain = Enable

```
Sysinfo program /home/cpu2017/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on 2158hv8 Mon May  5 23:31:10 2025
```

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

-----  
Table of contents

- ```
1. uname -a  
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 (255.4-1ubuntu8.1)
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Platform Notes (Continued)

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 -a  
Linux 2158hv8 6.8.0-38-generic #38-Ubuntu SMP PREEMPT\_DYNAMIC Fri Jun 7 15:25:01 UTC 2024 x86\_64 x86\_64  
x86\_64 GNU/Linux

---

2. w  
23:31:10 up 5:00, 1 user, load average: 117.24, 173.37, 184.55  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

---

3. Username  
From environment variable \$USER: root

---

4. ulimit -a  
time(seconds) unlimited  
file(blocks) unlimited  
data(kbytes) unlimited  
stack(kbytes) unlimited  
coredump(blocks) 0  
memory(kbytes) unlimited  
locked memory(kbytes) 2097152  
process 3093750  
nofiles 1024  
vmmemory(kbytes) unlimited  
locks unlimited  
rtprio 0

---

5. sysinfo process ancestry  
/sbin/init  
python3 ./run\_amd\_rate\_aocc500\_znver5\_A1.py  
/bin/bash ./amd\_rate\_aocc500\_znver5\_A1.sh  
runcpu --config amd\_rate\_aocc500\_znver5\_A1.cfg --tune all --reportable --iterations 3 fprate  
runcpu --configfile amd\_rate\_aocc500\_znver5\_A1.cfg --tune all --reportable --iterations 3 --nopower  
--runmode rate --tune base:peak --size test:train:refrate fprate --nopreenv --note-preenv --logfile  
\$SPEC/tmp/CPU2017.021/templogs/preenv.fprate.021.0.log --lognum 021.0 --from\_runcpu 2  
specperl \$SPEC/bin/sysinfo  
\$SPEC = /home/cpu2017

---

6. /proc/cpuinfo  
model name : AMD EPYC 9655 96-Core Processor  
vendor\_id : AuthenticAMD  
cpu family : 26

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Platform Notes (Continued)

```
model      : 2
stepping   : 1
microcode  : 0xb00211e
bugs       : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size   : 192 4K pages
cpu cores  : 96
siblings   : 192
1 physical ids (chips)
192 processors (hardware threads)
physical id 0: core ids 0-95
physical id 0: apicids 0-191
```

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:         52 bits physical, 57 bits virtual
Byte Order:            Little Endian
CPU(s):                192
On-line CPU(s) list:  0-191
Vendor ID:             AuthenticAMD
BIOS Vendor ID:       Advanced Micro Devices, Inc.
Model name:            AMD EPYC 9655 96-Core Processor
BIOS Model name:      AMD EPYC 9655 96-Core Processor Unknown CPU @ 2.6GHz
BIOS CPU family:      107
CPU family:            26
Model:                 2
Thread(s) per core:   2
Core(s) per socket:   96
Socket(s):             1
Stepping:              1
Frequency boost:      enabled
CPU(s) scaling MHz:  58%
CPU max MHz:          4509.3750
CPU min MHz:          1500.0000
BogoMIPS:              5191.65
Flags:                 fpu vme de pse tsc msr pae mce cx8 apic sep mttr 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 aperfmpf perf_rapl_pni pclmulqdq monitor ssse3 fma cx16 pcid
                      sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm
                      cmp_legacy extapic cr8_legacy abm sse4a misalignsse 3dnnowprefetch
                      osvw ibs skininit 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 bml1 avx2
                      smep bmi2 erms invpcid cqmq rdt_a avx512f avx512dq rdseed adx smap
                      avx512ifma clflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt
                      xsavec xgetbv1 xsaves cqmq_llc cqmq_occur_llc cqmq_mbm_total
                      cqmq_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 vmbc_clean flushbyasid decodeassist pausefilter
                      pfthreshold avic v_vmsave_vmlload 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
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

**SPECrate®2017\_fp\_base = 1030**

**SPECrate®2017\_fp\_peak = 1090**

**CPU2017 License:** 6488

**Test Date:** May-2025

**Test Sponsor:** xFusion

**Hardware Availability:** Oct-2024

**Tested by:** xFusion

**Software Availability:** Oct-2024

## Platform Notes (Continued)

|                                       |                                                                                                                                   |
|---------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| L1d cache:                            | 4.5 MiB (96 instances)                                                                                                            |
| L1i cache:                            | 3 MiB (96 instances)                                                                                                              |
| L2 cache:                             | 96 MiB (96 instances)                                                                                                             |
| L3 cache:                             | 384 MiB (12 instances)                                                                                                            |
| NUMA node(s):                         | 12                                                                                                                                |
| NUMA node0 CPU(s):                    | 0-7,96-103                                                                                                                        |
| NUMA node1 CPU(s):                    | 8-15,104-111                                                                                                                      |
| NUMA node2 CPU(s):                    | 16-23,112-119                                                                                                                     |
| NUMA node3 CPU(s):                    | 24-31,120-127                                                                                                                     |
| NUMA node4 CPU(s):                    | 32-39,128-135                                                                                                                     |
| NUMA node5 CPU(s):                    | 40-47,136-143                                                                                                                     |
| NUMA node6 CPU(s):                    | 48-55,144-151                                                                                                                     |
| NUMA node7 CPU(s):                    | 56-63,152-159                                                                                                                     |
| NUMA node8 CPU(s):                    | 64-71,160-167                                                                                                                     |
| NUMA node9 CPU(s):                    | 72-79,168-175                                                                                                                     |
| NUMA node10 CPU(s):                   | 80-87,176-183                                                                                                                     |
| NUMA node11 CPU(s):                   | 88-95,184-191                                                                                                                     |
| Vulnerability Gather data sampling:   | Not affected                                                                                                                      |
| Vulnerability Itlb multihit:          | Not affected                                                                                                                      |
| Vulnerability Llft:                   | 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/swaps barriers and __user pointer sanitization                                                               |
| Vulnerability Spectre v2:             | Mitigation; Enhanced / Automatic IBRS; IBPB conditional; STIBP always-on; RSB filling; PBRSB-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      | 4.5M     | 12   | Data        | 1     | 64    | 1        | 64             |
| L1i  | 32K      | 3M       | 8    | Instruction | 1     | 64    | 1        | 64             |
| L2   | 1M       | 96M      | 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: 12 nodes (0-11)

node 0 cpus: 0-7,96-103

node 0 size: 63999 MB

node 0 free: 62996 MB

node 1 cpus: 8-15,104-111

node 1 size: 64506 MB

node 1 free: 63615 MB

node 2 cpus: 16-23,112-119

node 2 size: 64506 MB

node 2 free: 63551 MB

node 3 cpus: 24-31,120-127

node 3 size: 64506 MB

node 3 free: 63573 MB

node 4 cpus: 32-39,128-135

node 4 size: 64506 MB

node 4 free: 63629 MB

node 5 cpus: 40-47,136-143

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Platform Notes (Continued)

```
node 5 size: 64506 MB
node 5 free: 63591 MB
node 6 cpus: 48-55,144-151
node 6 size: 64506 MB
node 6 free: 63571 MB
node 7 cpus: 56-63,152-159
node 7 size: 64506 MB
node 7 free: 63440 MB
node 8 cpus: 64-71,160-167
node 8 size: 64506 MB
node 8 free: 63599 MB
node 9 cpus: 72-79,168-175
node 9 size: 64506 MB
node 9 free: 63611 MB
node 10 cpus: 80-87,176-183
node 10 size: 64506 MB
node 10 free: 63535 MB
node 11 cpus: 88-95,184-191
node 11 size: 64444 MB
node 11 free: 63513 MB
node distances:
node   0   1   2   3   4   5   6   7   8   9   10  11
  0: 10  11  11  12  12  12  12  12  12  12  12  12
  1: 11  10  11  12  12  12  12  12  12  12  12  12
  2: 11  11  10  12  12  12  12  12  12  12  12  12
  3: 12  12  12  10  11  11  12  12  12  12  12  12
  4: 12  12  12  11  10  11  12  12  12  12  12  12
  5: 12  12  12  11  11  10  12  12  12  12  12  12
  6: 12  12  12  12  12  12  10  11  11  12  12  12
  7: 12  12  12  12  12  12  11  10  11  12  12  12
  8: 12  12  12  12  12  12  11  11  10  12  12  12
  9: 12  12  12  12  12  12  12  12  12  10  11  11
 10: 12  12  12  12  12  12  12  12  12  11  10  11
 11: 12  12  12  12  12  12  12  12  11  11  11  10
```

---

```
9. /proc/meminfo
MemTotal:      792072780 kB
```

---

```
10. who -r
run-level 5 May 5 18:32
```

---

```
11. Systemd service manager version: systemd 255 (255.4-1ubuntu8.1)
Default Target      Status
graphical          degraded
```

---

```
12. Failed units, from systemctl list-units --state=failed
UNIT                  LOAD     ACTIVE SUB     DESCRIPTION
* fwupd-refresh.service           loaded failed failed Refresh fwupd metadata and update motd
* systemd-networkd-wait-online.service loaded failed failed Wait for Network to be Configured
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.
2 loaded units listed.
```

---

```
13. Services, from systemctl list-unit-files
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

**SPECrate®2017\_fp\_base = 1030**

**SPECrate®2017\_fp\_peak = 1090**

**CPU2017 License:** 6488

**Test Date:** May-2025

**Test Sponsor:** xFusion

**Hardware Availability:** Oct-2024

**Tested by:** xFusion

**Software Availability:** Oct-2024

## Platform Notes (Continued)

| STATE           | UNIT FILES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled         | ModemManager NetworkManager NetworkManager-dispatcher NetworkManager-wait-online apparmor apport blk-availability cloud-config cloud-final cloud-init cloud-init-local console-setup cron dmesg e2scrub_reap finalrd getty@ gpu-manager grub-common grub-initrd-fallback keyboard-setup lvm2-monitor multipathd networkd-dispatcher networking open-iscsi open-vm-tools pollinate rsyslog secureboot-db setvtrgb snapd sysstat systemd-networkd systemd-networkd-wait-online systemd-pstore systemd-resolved systemd-timesyncd thermald ua-reboot-cmds ubuntu-advantage udisks2 ufw unattended-upgrades vgaauth wpa_supplicant |
| enabled-runtime | netplan-ovs-cleanupsystemd-fsck-root systemd-remount-fs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| disabled        | console-getty debug-shell ifupdown-wait-online iscsables rsync serial-getty@ ssh systemd-boot-check-no-failures systemd-confex systemd-network-generator                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|                 | 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 upower wpa_supplicant-nl80211@ wpa_supplicant-wired@                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| wpa_supplicant@ |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| indirect        | systemd-sysupdate systemd-sysupdate-reboot uuidd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| masked          | cryptdisks cryptdisks-early hwclock multipath-tools-boot screen-cleanup sudo x11-common                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

-----

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

```
BOOT_IMAGE=/vmlinuz-6.8.0-38-generic
root=/dev/mapper/ubuntu--vg-ubuntu--lv
ro
nohz_full=1-383
```

-----

15. cpupower frequency-info

```
analyzing CPU 109:
    current policy: frequency should be within 1.50 GHz and 2.60 GHz.
                    The governor "performance" may decide which speed to use
                    within this range.

    boost state support:
        Supported: yes
        Active: yes
        Boost States: 0
        Total States: 3
        Pstate-P0: 800MHz
```

-----

16. sysctl

|                              |       |
|------------------------------|-------|
| kernel.numa_balancing        | 1     |
| kernel.randomize_va_space    | 0     |
| vm.compaction_prolactiveness | 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     |

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Platform Notes (Continued)

17. /sys/kernel/mm/transparent\_hugepage  
defrag [always] defer defer+madvise madvise never  
enabled [always] madvise never  
huge\_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 LTS

20. Disk information  
SPEC is set to: /home/cpu2017  
Filesystem Type Size Used Avail Use% Mounted on  
/dev/mapper/ubuntu--vg-ubuntu--lv ext4 196G 17G 170G 9% /

21. /sys/devices/virtual/dmi/id  
Product: 2158H V8  
Product Family: Turin

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:  
12x SK Hynix HMCG94AHBRA485N 64 GB 2 rank 6400

23. BIOS  
(This section combines info from /sys/devices and dmidecode.)  
BIOS Vendor: American Megatrends International, LLC.  
BIOS Version: 00.13.01.05  
BIOS Date: 02/10/2025  
BIOS Revision: 1.5

## Compiler Version Notes

=====  
C | 519.lbm\_r(base, peak) 538.imagick\_r(base, peak) 544.nab\_r(base, peak)  
=====

AMD clang version 17.0.6 (CLANG: AOCC\_5.0.0-Build#1316 2024\_09\_09)  
Target: x86\_64-unknown-linux-gnu

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Compiler Version Notes (Continued)

```
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
-----
=====
C++      | 508.namd_r(base, peak) 510.parest_r(base, peak)
-----
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
-----
=====
C++, C    | 511.povray_r(base, peak) 526.blender_r(base, peak)
-----
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
-----
=====
C++, C, Fortran | 507.cactusBSSN_r(base, peak)
-----
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
-----
=====
Fortran     | 503.bwaves_r(base, peak) 549.fotonik3d_r(base, peak) 554.roms_r(base, peak)
-----
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
-----
=====
Fortran, C   | 521.wrf_r(base, peak) 527.cam4_r(base, peak)
-----
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin
AMD clang version 17.0.6 (CLANG: AOCC_5.0.0-Build#1316 2024_09_09)
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Compiler Version Notes (Continued)

Target: x86\_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-5.0.0-4925-1316/bin

---

## Base Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Fortran benchmarks:

flang

Benchmarks using both Fortran and C:

flang clang

Benchmarks using both C and C++:

clang++ clang

Benchmarks using Fortran, C, and C++:

clang++ clang flang

## Base Portability Flags

503.bwaves\_r: -DSPEC\_LP64  
507.cactuBSSN\_r: -DSPEC\_LP64  
508.namd\_r: -DSPEC\_LP64  
510.parest\_r: -DSPEC\_LP64  
511.povray\_r: -DSPEC\_LP64  
519.lbm\_r: -DSPEC\_LP64  
521.wrf\_r: -DSPEC\_CASE\_FLAG -Mbyteswapi -DSPEC\_LP64  
526.blender\_r: -funsigned-char -DSPEC\_LP64  
527.cam4\_r: -DSPEC\_CASE\_FLAG -DSPEC\_LP64  
538.imagick\_r: -DSPEC\_LP64  
544.nab\_r: -DSPEC\_LP64  
549.fotonik3d\_r: -DSPEC\_LP64  
554.roms\_r: -DSPEC\_LP64



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Base Optimization Flags

C benchmarks:

```
-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-ldist-scalar-expand -fenable-aggressive-gather -O3
-march=znver5 -fveclib=AMDLIBM -ffast-math -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 -lamdlibm -lamdaloc
-lflang -ldl
```

C++ benchmarks:

```
-m64 -std=c++14 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Wl,-mllvm -Wl,-extra-inliner
-O3 -march=znver5 -fveclib=AMDLIBM -ffast-math -flto
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lamdaloc
-lflang -ldl
```

Fortran benchmarks:

```
-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-enable-X86-prefetching
-Wl,-mllvm -Wl,-enable-aggressive-gather=true
-Wl,-mllvm -Wl,-enable-masked-gather-sequence=false -O3 -march=znver5
-fveclib=AMDLIBM -ffast-math -flto -Mrecursive -funroll-loops
-mllvm -lsr-in-nested-loop -mllvm -reduce-array-computations=3
-fepilog-vectorization-of-inductions -zopt -lamdlibm -lamdaloc
-lflang -ldl
```

Benchmarks using both Fortran and C:

```
-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-enable-X86-prefetching
-Wl,-mllvm -Wl,-enable-aggressive-gather=true
-Wl,-mllvm -Wl,-enable-masked-gather-sequence=false -O3 -march=znver5
-fveclib=AMDLIBM -ffast-math -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 -Mrecursive -funroll-loops
-mllvm -lsr-in-nested-loop -fepilog-vectorization-of-inductions
-lamdlibm -lamdaloc -lflang -ldl
```

Benchmarks using both C and C++:

```
-m64 -std=c++14 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Base Optimization Flags (Continued)

Benchmarks using both C and C++ (continued):

```
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Wl,-mllvm -Wl,-extra-inliner  
-O3 -march=znver5 -fveclib=AMDLIBM -ffast-math -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 -lamdlibm -lamdaloc -lflang  
-ldl
```

Benchmarks using Fortran, C, and C++:

```
-m64 -std=c++14 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Wl,-mllvm -Wl,-extra-inliner  
-O3 -march=znver5 -fveclib=AMDLIBM -ffast-math -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 -Mrecursive -funroll-loops  
-mllvm -lsr-in-nested-loop -fepilog-vectorization-of-inductions  
-lamdlibm -lamdaloc -lflang -ldl
```

## Base Other Flags

C benchmarks:

```
-Wno-unused-command-line-argument
```

C++ benchmarks:

```
-Wno-unused-command-line-argument
```

Fortran benchmarks:

```
-Wno-unused-command-line-argument
```

Benchmarks using both Fortran and C:

```
-Wno-unused-command-line-argument
```

Benchmarks using both C and C++:

```
-Wno-unused-command-line-argument
```

Benchmarks using Fortran, C, and C++:

```
-Wno-unused-command-line-argument
```



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Peak Compiler Invocation

C benchmarks:

clang

C++ benchmarks:

clang++

Fortran benchmarks:

flang

Benchmarks using both Fortran and C:

flang clang

Benchmarks using both C and C++:

clang++ clang

Benchmarks using Fortran, C, and C++:

clang++ clang flang

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

519.lbm\_r: basepeak = yes

538.imagick\_r: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -fsto  
-fstruct-layout=7 -mllvm -unroll-threshold=50  
-fremap-arrays -fstrip-mining  
-mllvm -inline-threshold=1000  
-mllvm -reduce-array-computations=3 -zopt -lamdlibm  
-lamdaloc -ldl

544.nab\_r: -m64 -fsto -Wl,-mllvm -Wl,-ldist-scalar-expand  
-fenable-aggressive-gather -Ofast -march=znver5  
-fveclib=AMDLIBM -ffast-math -fstruct-layout=7  
-mllvm -unroll-threshold=50 -fremap-arrays -fstrip-mining  
-mllvm -inline-threshold=1000

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Peak Optimization Flags (Continued)

544.nab\_r (continued):

```
-mllvm -reduce-array-computations=3 -zopt -lamdlibm  
-lamdaloc -ldl
```

C++ benchmarks:

```
508.namd_r: -m64 -std=c++14  
-Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-mllvm -unroll-threshold=100  
-mllvm -reduce-array-computations=3 -zopt -lamdlibm  
-lamdaloc -ldl
```

510.parest\_r: basepeak = yes

Fortran benchmarks:

503.bwaves\_r: basepeak = yes

```
549.fotonik3d_r: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-Mrecursive -mllvm -reduce-array-computations=3  
-fepilog-vectorization-of-inductions -fvector-transform  
-fscalar-transform -lamdlibm -lamdaloc -ldl -lflang
```

```
554.roms_r: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-Mrecursive -mllvm -reduce-array-computations=3  
-fepilog-vectorization-of-inductions -zopt -lamdlibm  
-lamdaloc -ldl -lflang
```

Benchmarks using both Fortran and C:

```
521.wrf_r: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-fstruct-layout=7 -mllvm -unroll-threshold=50  
-fremap-arrays -fstrip-mining  
-mllvm -inline-threshold=1000  
-mllvm -reduce-array-computations=3 -zopt -Mrecursive  
-funroll-loops -mllvm -lsr-in-nested-loop  
-fepilog-vectorization-of-inductions -lamdlibm -lamdaloc
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

CPU2017 License: 6488

Test Date: May-2025

Test Sponsor: xFusion

Hardware Availability: Oct-2024

Tested by: xFusion

Software Availability: Oct-2024

## Peak Optimization Flags (Continued)

521.wrf\_r (continued):

-ldl -lflang

527.cam4\_r: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-enable-X86-prefetching -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-fstruct-layout=7 -mllvm -unroll-threshold=50  
-mllvm -inline-threshold=1000 -fremap-arrays  
-mllvm -reduce-array-computations=3 -zopt -Mrecursive  
-funroll-loops -mllvm -lsr-in-nested-loop  
-fepilog-vectorization-of-inductions -lamdlibm -lamdalloc  
-ldl -lflang

Benchmarks using both C and C++:

511.povray\_r: -m64 -std=c++14  
-Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false  
-Wl,-mllvm -Wl,-extra-inliner -Ofast -march=znver5  
-fveclib=AMDLIBM -ffast-math -flto -fstruct-layout=7  
-mllvm -unroll-threshold=50 -mllvm -inline-threshold=1000  
-fremap-arrays -mllvm -reduce-array-computations=3 -zopt  
-mllvm -unroll-threshold=100  
-mllvm -loop-unswitch-threshold=200000 -lamdlibm  
-lamdalloc -ldl

526.blender\_r: -m64 -std=c++14  
-Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6  
-Wl,-mllvm -Wl,-reduce-array-computations=3  
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math -flto  
-fstruct-layout=7 -mllvm -unroll-threshold=50  
-fremap-arrays -fstrip-mining  
-mllvm -inline-threshold=1000  
-mllvm -reduce-array-computations=3 -zopt  
-mllvm -unroll-threshold=100 -lamdlibm -lamdalloc -ldl

Benchmarks using Fortran, C, and C++:

507.cactuBSSN\_r: basepeak = yes



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## xFusion

FusionServer 2158H V8  
(AMD EPYC 9655)

CPU2017 License: 6488

Test Sponsor: xFusion

Tested by: xFusion

SPECrate®2017\_fp\_base = 1030

SPECrate®2017\_fp\_peak = 1090

Test Date: May-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024

## Peak Other Flags

C benchmarks:

-Wno-unused-command-line-argument

C++ benchmarks:

-Wno-unused-command-line-argument

Fortran benchmarks:

-Wno-unused-command-line-argument

Benchmarks using both Fortran and C:

-Wno-unused-command-line-argument

Benchmarks using both C and C++:

-Wno-unused-command-line-argument

Benchmarks using Fortran, C, and C++:

-Wno-unused-command-line-argument

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

<http://www.spec.org/cpu2017/flags/aocc500-flags.2024-10-10.html>

<http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-AMD-V1.5.html>

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

<http://www.spec.org/cpu2017/flags/aocc500-flags.2024-10-10.xml>

<http://www.spec.org/cpu2017/flags/xFusion-Platform-Settings-AMD-V1.5.xml>

SPEC CPU and SPECrate are registered trademarks of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

For questions about this result, please contact the tester. For other inquiries, please contact [info@spec.org](mailto:info@spec.org).

Tested with SPEC CPU®2017 v1.1.9 on 2025-05-05 19:31:10-0400.

Report generated on 2025-06-03 15:46:28 by CPU2017 PDF formatter v6716.

Originally published on 2025-06-03.