



# SPEC CPU®2017 Floating Point Rate Result

Copyright 2017-2025 Standard Performance Evaluation Corporation

## Cisco Systems

Cisco UCS C245 M8 (AMD EPYC 9475F  
3.65 GHz Processor)

**SPECrate®2017\_fp\_base = 1580**

**SPECrate®2017\_fp\_peak = 1680**

CPU2017 License: 9019

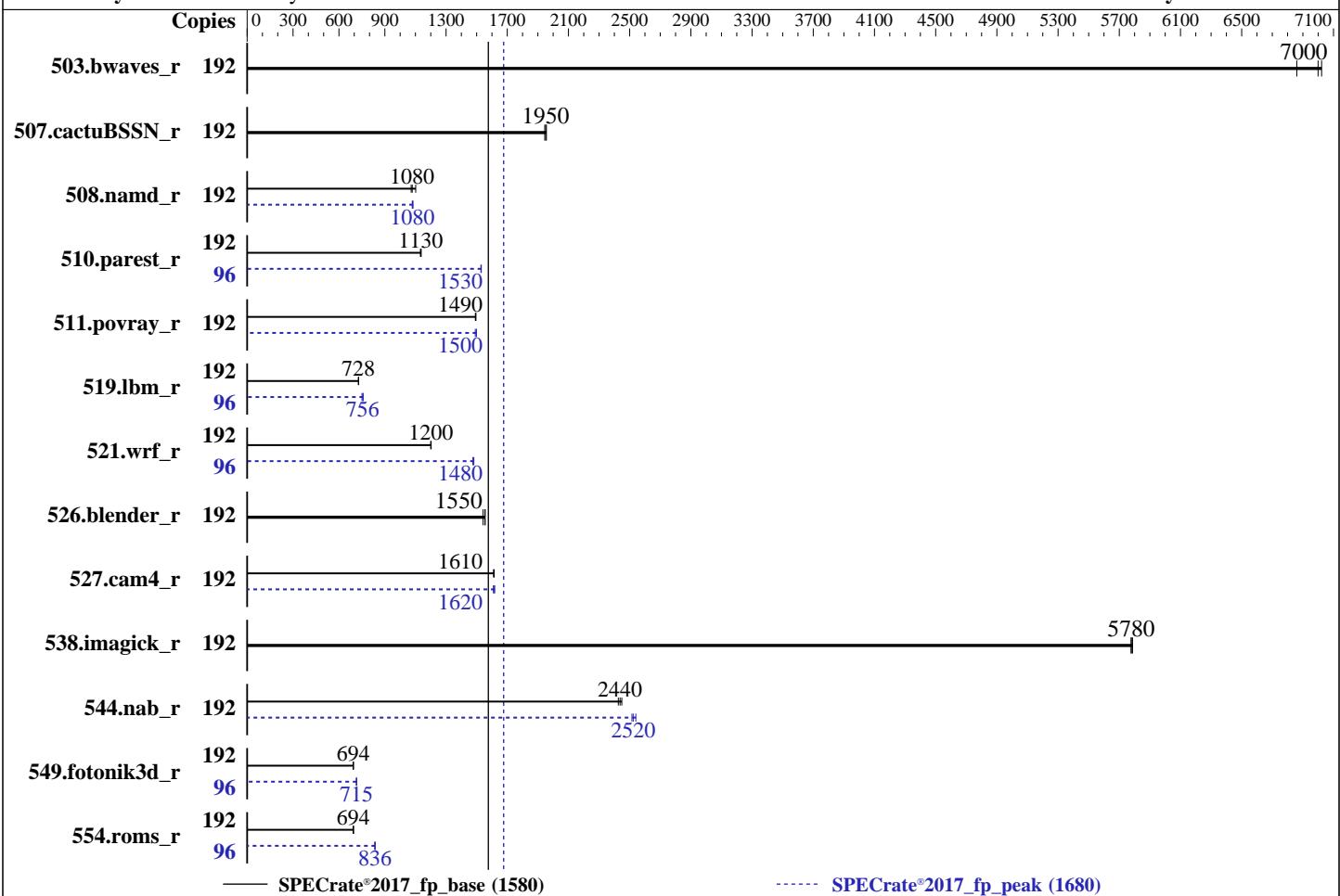
Test Sponsor: Cisco Systems

Tested by: Cisco Systems

**Test Date:** Jun-2025

**Hardware Availability:** Oct-2024

**Software Availability:** Oct-2024



| Hardware   |  | Software          |  |
|------------|--|-------------------|--|
| CPU Name:  | AMD EPYC 9475F   | OS:               | SUSE Linux Enterprise Server 15 SP6  |
| Max MHz:   | 4800   |                   | kernel version   |
| Nominal:   | 3650   |                   | 6.4.0-150600.21-default  |
| Enabled:   | 96 cores, 2 chips, 2 threads/core                      | Compiler:         | C/C++/Fortran: Version 5.0.0 of AOCC   |
| Orderable: | 1,2 chips  | Parallel:         | No   |
| Cache L1:  | 32 KB I + 48 KB D on chip per core                     | Firmware:         | Version 4.3.5c released Dec-2024   |
| L2:        | 1 MB I+D on chip per core                              | File System:      | btrfs  |
| L3:        | 256 MB I+D on chip per chip, 32 MB shared / 6 cores    | System State:     | Run level 3 (multi-user)   |
| Other:     | None   | Base Pointers:    | 64-bit   |
| Memory:    | 1536 GB (24 x 64 GB 2Rx4 PC5-6400B-R, running at 6000) | Peak Pointers:    | 64-bit   |
| Storage:   | 1 x 960 GB SATA SSD                                    | Other:            | None   |
| Other:     | CPU Cooling: Air                                       | 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       |
| 503.bwaves_r    | 192    | 281         | 6860        | 274         | 7020        | <b>275</b> | <b>7000</b> | 192    | 281        | 6860        | 274         | 7020        | <b>275</b> | <b>7000</b> |
| 507.cactubSSN_r | 192    | 125         | 1950        | 124         | 1960        | <b>125</b> | <b>1950</b> | 192    | 125        | 1950        | 124         | 1960        | <b>125</b> | <b>1950</b> |
| 508.namd_r      | 192    | 166         | 1100        | <b>169</b>  | <b>1080</b> | 170        | 1070        | 192    | 169        | 1080        | 168         | 1080        | <b>169</b> | <b>1080</b> |
| 510.parest_r    | 192    | <b>443</b>  | <b>1130</b> | 442         | 1140        | 443        | 1130        | 96     | <b>164</b> | <b>1530</b> | 164         | 1530        | 164        | 1530        |
| 511.povray_r    | 192    | 300         | 1500        | <b>300</b>  | <b>1490</b> | 301        | 1490        | 192    | <b>299</b> | <b>1500</b> | 299         | 1500        | 301        | 1490        |
| 519.lbm_r       | 192    | 278         | 728         | <b>278</b>  | <b>728</b>  | 278        | 728         | 96     | <b>134</b> | <b>756</b>  | 135         | 751         | 133        | 758         |
| 521.wrf_r       | 192    | <b>358</b>  | <b>1200</b> | 358         | 1200        | 359        | 1200        | 96     | <b>146</b> | <b>1480</b> | 146         | 1480        | 145        | 1480        |
| 526.blender_r   | 192    | 188         | 1550        | 190         | 1540        | <b>188</b> | <b>1550</b> | 192    | 188        | 1550        | 190         | 1540        | <b>188</b> | <b>1550</b> |
| 527.cam4_r      | 192    | 209         | 1610        | 208         | 1610        | <b>208</b> | <b>1610</b> | 192    | 209        | 1610        | <b>208</b>  | <b>1620</b> | 208        | 1620        |
| 538.imagick_r   | 192    | 82.7        | 5780        | <b>82.6</b> | <b>5780</b> | 82.5       | 5790        | 192    | 82.7       | 5780        | <b>82.6</b> | <b>5780</b> | 82.5       | 5790        |
| 544.nab_r       | 192    | 132         | 2450        | 133         | 2430        | <b>133</b> | <b>2440</b> | 192    | 127        | 2540        | <b>128</b>  | <b>2520</b> | 128        | 2510        |
| 549.fotonik3d_r | 192    | <b>1078</b> | <b>694</b>  | 1081        | 692         | 1076       | 695         | 96     | <b>523</b> | <b>715</b>  | 524         | 715         | 523        | 715         |
| 554.roms_r      | 192    | <b>440</b>  | <b>694</b>  | 441         | 692         | 439        | 696         | 96     | 183        | 834         | 182         | 837         | <b>183</b> | <b>836</b>  |

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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 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,

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## 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:

NUMA nodes per socket set to NPS4

Determinism Slider set to Power

DF C-States set to Disabled

Enhanced CPU performance set to Auto

```
Sysinfo program /home/cpu2017/bin/sysinfo  
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197  
running on localhost Sat Jun 14 07:29:48 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 254 (254.10+suse.84.ge8d77af424)
- 12. Services, from systemctl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline

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## Platform Notes (Continued)

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 -a

```
Linux localhost 6.4.0-150600.21-default #1 SMP PREEMPT_DYNAMIC Thu May 16 11:09:22 UTC 2024 (36c1e09)
x86_64 x86_64 x86_64 GNU/Linux
```

2. w

```
07:29:48 up 1 day,  8:29,   3 users,  load average: 0.14, 0.03, 0.01
USER      TTY      FROM                  LOGIN@    IDLE     JCPU     PCPU WHAT
root      ttys1      -                   Thu23    28.00s  0.93s  0.17s /bin/bash ./amd_rate_aocc500_znver5_A1.sh
```

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)            | 6190622   |
| max locked memory    | (kbytes, -l)    | 2097152   |
| max memory size      | (kbytes, -m)    | unlimited |
| open files           | (-n)            | 1024      |
| pipe size            | (512 bytes, -p) | 8         |
| 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)            | 6190622   |
| virtual memory       | (kbytes, -v)    | unlimited |
| file locks           | (-x)            | unlimited |

5. sysinfo process ancestry

```
/usr/lib/systemd/systemd --switched-root --system --deserialize=43
login -- root
-bash
python3 ./run_amd_rate_aocc500_znver5_A1.py -b fprate
/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/CPU2017.001/templogs/preenv.fprate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017
```

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## Platform Notes (Continued)

6. /proc/cpuinfo

```
model name      : AMD EPYC 9475F 48-Core Processor
vendor_id       : AuthenticAMD
cpu family     : 26
model          : 2
stepping        : 1
microcode       : 0xb00211a
bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
TLB size        : 192 4K pages
cpu cores       : 48
siblings        : 96
2 physical ids (chips)
192 processors (hardware threads)
physical id 0: core ids 0-5,8-13,16-21,24-29,32-37,40-45,48-53,56-61
physical id 1: core ids 0-5,8-13,16-21,24-29,32-37,40-45,48-53,56-61
physical id 0: apicids 0-11,16-27,32-43,48-59,64-75,80-91,96-107,112-123
physical id 1: apicids 128-139,144-155,160-171,176-187,192-203,208-219,224-235,240-251
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 9475F 48-Core Processor  |
| BIOS Model name:     | AMD EPYC 9475F 48-Core Processor  |
| BIOS CPU family:     | Unknown CPU @ 3.6GHz  |
| CPU family:          | 107   |
| Model:               | 26  |
| Thread(s) per core:  | 2   |
| Core(s) per socket:  | 48  |
| Socket(s):           | 2   |
| Stepping:            | 1   |
| Frequency boost:     | enabled   |
| CPU(s) scaling MHz:  | 76%   |
| CPU max MHz:         | 4819.1401   |
| CPU min MHz:         | 1500.0000   |
| BogoMIPS:            | 7288.71   |
| Flags:               | fpu vme de pse tsc msr pae mce cx8 apic sep mttr pge mca cmov pat<br>pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb<br>rdtscp lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid<br>extd_apicid aperfmpfperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid<br>sse4_1 sse4_2 x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm<br>cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch<br>osvw ibs skininit wdt tce topoext perfctr_core perfctr_nb bpext<br>perfctr_llc mwaitx cpb cat_l3 cdp_l3 hw_pstate ssbd mba perfmon_v2<br>ibrs ibpb stibp ibrs_enhanced vmmcall fsgsbase tsc_adjust bmi1 avx2<br>smep bmi2 erms invpcid cqmq rdt_a avx512f avx512dq rdseed adx smap<br>avx512ifma clflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt<br>xsavec xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbmm_total<br>cqmq_mbmm_local user_shstk avx_vnni avx512_bf16 clzero irperf<br>xsaveerptr rdpru wbnoinvd amd_ppin cppc arat npt lbrv svm_lock |

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## Platform Notes (Continued)

```
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_vpocntdq la57 rdpid bus_lock_detect
movdiri movdir64b overflow_recov succor smca fsrm avx512_vp2intersect
flush_lld debug_swap
```

Virtualization:

AMD-V 4.5 MiB (96 instances)

L1d cache:

3 MiB (96 instances)

L1i cache:

96 MiB (96 instances)

L2 cache:

512 MiB (16 instances)

L3 cache:

8

NUMA node(s):

0-11,96-107

NUMA node0 CPU(s):

12-23,108-119

NUMA node2 CPU(s):

24-35,120-131

NUMA node3 CPU(s):

36-47,132-143

NUMA node4 CPU(s):

48-59,144-155

NUMA node5 CPU(s):

60-71,156-167

NUMA node6 CPU(s):

72-83,168-179

NUMA node7 CPU(s):

84-95,180-191

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      | 512M     | 16   | Unified     | 3     | 32768 | 1        | 64             |

-----  
8. numactl --hardware

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

available: 8 nodes (0-7)

node 0 cpus: 0-11,96-107

node 0 size: 193074 MB

node 0 free: 191994 MB

node 1 cpus: 12-23,108-119

node 1 size: 193529 MB

node 1 free: 192787 MB

node 2 cpus: 24-35,120-131

node 2 size: 193529 MB

node 2 free: 192778 MB

node 3 cpus: 36-47,132-143

node 3 size: 193529 MB

node 3 free: 192685 MB

node 4 cpus: 48-59,144-155

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## Platform Notes (Continued)

```
node 4 size: 193529 MB
node 4 free: 192752 MB
node 5 cpus: 60-71,156-167
node 5 size: 193529 MB
node 5 free: 192809 MB
node 6 cpus: 72-83,168-179
node 6 size: 193529 MB
node 6 free: 192818 MB
node 7 cpus: 84-95,180-191
node 7 size: 193430 MB
node 7 free: 192648 MB
node distances:
node 0 1 2 3 4 5 6 7
 0: 10 12 12 12 32 32 32 32
 1: 12 10 12 12 32 32 32 32
 2: 12 12 10 12 32 32 32 32
 3: 12 12 12 10 32 32 32 32
 4: 32 32 32 32 10 12 12 12
 5: 32 32 32 32 12 10 12 12
 6: 32 32 32 32 12 12 10 12
 7: 32 32 32 32 12 12 12 10
```

-----

9. /proc/meminfo

MemTotal: 1584826464 kB

-----

10. who -r

run-level 3 Jun 12 23:05

-----

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 getty@ irqbalance iscsi<br>issue-generator kbdsettings klog lvm2-monitor nsqd postfix purge-kernels rollback rsyslog<br>smartd sshd systemd-pstore virtqemud wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6<br>wickedd-nanny   |
| enabled-runtime | systemd-remount-fs   |
| disabled        | autofs autoyast-initscripts blk-availability boot-sysctl ca-certificates chrony-wait<br>chronyd console-getty cups cups-browsed debug-shell dnsmasq ebttables exchange-bmc-os-info<br>firewalld fsidd gpm grub2-once haveged hv_fcopy_daemon hv_kvp_daemon hv_vss_daemon<br>hwloc-dump-hwdata ipmi ipmievrd iscsi-init iscsid issue-add-ssh-keys kexec-load ksm<br>kvm_stat libvirt-guests lunmask man-db-create multipathd nfs nfs-blkmap nfs-server<br>nfsserver rpcbind rpmconfigcheck rsyncd rtkit-daemon serial-getty@ smartd_generate_opts<br>snmpd snmptrapd strongswan strongswan-starter svnservice systemd-boot-check-no-failures<br>systemd-confext systemd-network-generator systemd-nspawn@ systemd-systest<br>systemd-time-wait-sync systemd-timesyncd tcsd udisks2 virtinterfaced virtlockd virtlogd<br>virtnetworkd virtnodededevd virtnwfiterd virtsecretd virtstoraged<br>pcscd systemd-userdb tftpd wickedd |
| indirect        |  |

-----

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

BOOT\_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default

root=UUID=c83597cb-e37b-43a6-bd1c-58cd7f1f9316

splash=silent

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## Platform Notes (Continued)

```
mitigations=auto
quiet
security=apparmor
```

```
-----  
14. cpupower frequency-info  
analyzing CPU 116:  
    current policy: frequency should be within 1.50 GHz and 3.65 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 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  
scan_sleep_millisecs 10000
```

```
-----  
18. OS release  
From /etc/*-release /etc/*-version  
os-release SUSE Linux Enterprise Server 15 SP6
```

```
-----  
19. Disk information
```

(Continued on next page)



# SPEC CPU®2017 Floating Point Rate Result

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## Cisco Systems

Cisco UCS C245 M8 (AMD EPYC 9475F  
3.65 GHz Processor)

SPECrate®2017\_fp\_base = 1580

SPECrate®2017\_fp\_peak = 1680

CPU2017 License: 9019

Test Date: Jun-2025

Test Sponsor: Cisco Systems

Hardware Availability: Oct-2024

Tested by: Cisco Systems

Software Availability: Oct-2024

## Platform Notes (Continued)

SPEC is set to: /home/cpu2017

```
Filesystem      Type   Size  Used Avail Use% Mounted on
/dev/sda2        btrfs  224G  9.5G  210G   5% /home
```

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

```
Vendor:          Cisco Systems Inc
Product:         UCSC-C245-M8SX
Product Family:  Cisco UCS Rack Server
Serial:          WZP2750Z0CS
```

-----  
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:

```
22x 0xCE00 M321R8GA0PB2-CCPEC 64 GB 2 rank 6400, configured at 6000
1x 0xCE00 M321R8GA0PB2-CCPKC 64 GB 2 rank 6400, configured at 6000
1x 0xCE00 M321R8GA0PB2-CCPPC 64 GB 2 rank 6400, configured at 6000
```

-----  
22. BIOS

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

```
BIOS Vendor:      Cisco Systems, Inc.
BIOS Version:    C245M8.4.3.5c.0.1202241033
BIOS Date:       12/02/2024
BIOS Revision:   5.35
```

## 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

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)

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CPU2017 License: 9019

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Test Sponsor: Cisco Systems

Hardware Availability: Oct-2024

Tested by: Cisco Systems

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

=====

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)

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

(Continued on next page)



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CPU2017 License: 9019

Test Date: Jun-2025

Test Sponsor: Cisco Systems

Hardware Availability: Oct-2024

Tested by: Cisco Systems

Software Availability: Oct-2024

## Base Compiler Invocation (Continued)

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 -Mbyteswapio -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

## 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 -fsto  
-fstruct-layout=7 -mllvm -unroll-threshold=50  
-mllvm -inline-threshold=1000 -fremap-arrays -fstrip-mining  
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lamdalloc  
-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 -fsto

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Tested by: Cisco Systems

Software Availability: Oct-2024

## Base Optimization Flags (Continued)

C++ benchmarks (continued):

```
-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 -fsto -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 -fsto
-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
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Wl,-mllvm -Wl,-extra-inliner
-O3 -march=znver5 -fveclib=AMDLIBM -ffast-math -fno-PIE -no-pie
-fsto -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
-fsto -fstruct-layout=7 -mllvm -unroll-threshold=50
```

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Test Sponsor: Cisco Systems

Hardware Availability: Oct-2024

Tested by: Cisco Systems

Software Availability: Oct-2024

## Base Optimization Flags (Continued)

Benchmarks using Fortran, C, and C++ (continued):

```
-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 -flang -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
```

## Peak Compiler Invocation

C benchmarks:

```
clang
```

C++ benchmarks:

```
clang++
```

Fortran benchmarks:

```
flang
```

Benchmarks using both Fortran and C:

```
flang clang
```

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## Cisco Systems

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Test Sponsor: Cisco Systems

Hardware Availability: Oct-2024

Tested by: Cisco Systems

Software Availability: Oct-2024

## Peak Compiler Invocation (Continued)

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: -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
-freemap-arrays -fstrip-mining
-mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3 -zopt -lamdlibm
-lamdaloc -ldl
```

```
538.imagick_r: basepeak = yes
```

```
544.nab_r: -m64 -flto -Wl,-mllvm -Wl,-ldist-scalar-expand
-fenable-aggressive-gather -Ofast -march=znver5
-fveclib=AMDLIBM -ffast-math -fstruct-layout=7
-mllvm -unroll-threshold=50 -freemap-arrays -fstrip-mining
-mllvm -inline-threshold=1000
-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
```

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## Peak Optimization Flags (Continued)

508.namd\_r (continued):

-lamdalloc -ldl

510.parest\_r: -m64 -std=c++14 -flto -Wl,-mllvm -Wl,-suppress-fmas  
-Wl,-mllvm -Wl,-x86-use-vzeroupper=false -Ofast  
-march=znver5 -fveclib=AMDLIBM -ffast-math  
-mllvm -unroll-threshold=100  
-mllvm -reduce-array-computations=3 -zopt -lamdlibm  
-lamdalloc -ldl

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 -lamdalloc -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  
-lamdalloc -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 -lamdalloc  
-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

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Tested by: Cisco Systems

Software Availability: Oct-2024

## Peak Optimization Flags (Continued)

527.cam4\_r (continued):

```
-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: basepeak = yes

Benchmarks using Fortran, C, and C++:

507.cactuBSSN\_r: basepeak = yes

## 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
```

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## Peak Other Flags (Continued)

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.html>

<http://www.spec.org/cpu2017/flags/Cisco-Platform-Settings-AMD-Turin-v1.1-revG.html>

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

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

<http://www.spec.org/cpu2017/flags/Cisco-Platform-Settings-AMD-Turin-v1.1-revG.xml>

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