



# SPEC CPU®2017 Floating Point Rate Result

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## Lenovo Global Technology

ThinkSystem SR645 V3  
(3.15 GHz, AMD EPYC 9455)

SPECrate®2017\_fp\_base = 1480

SPECrate®2017\_fp\_peak = 1550

CPU2017 License: 9017

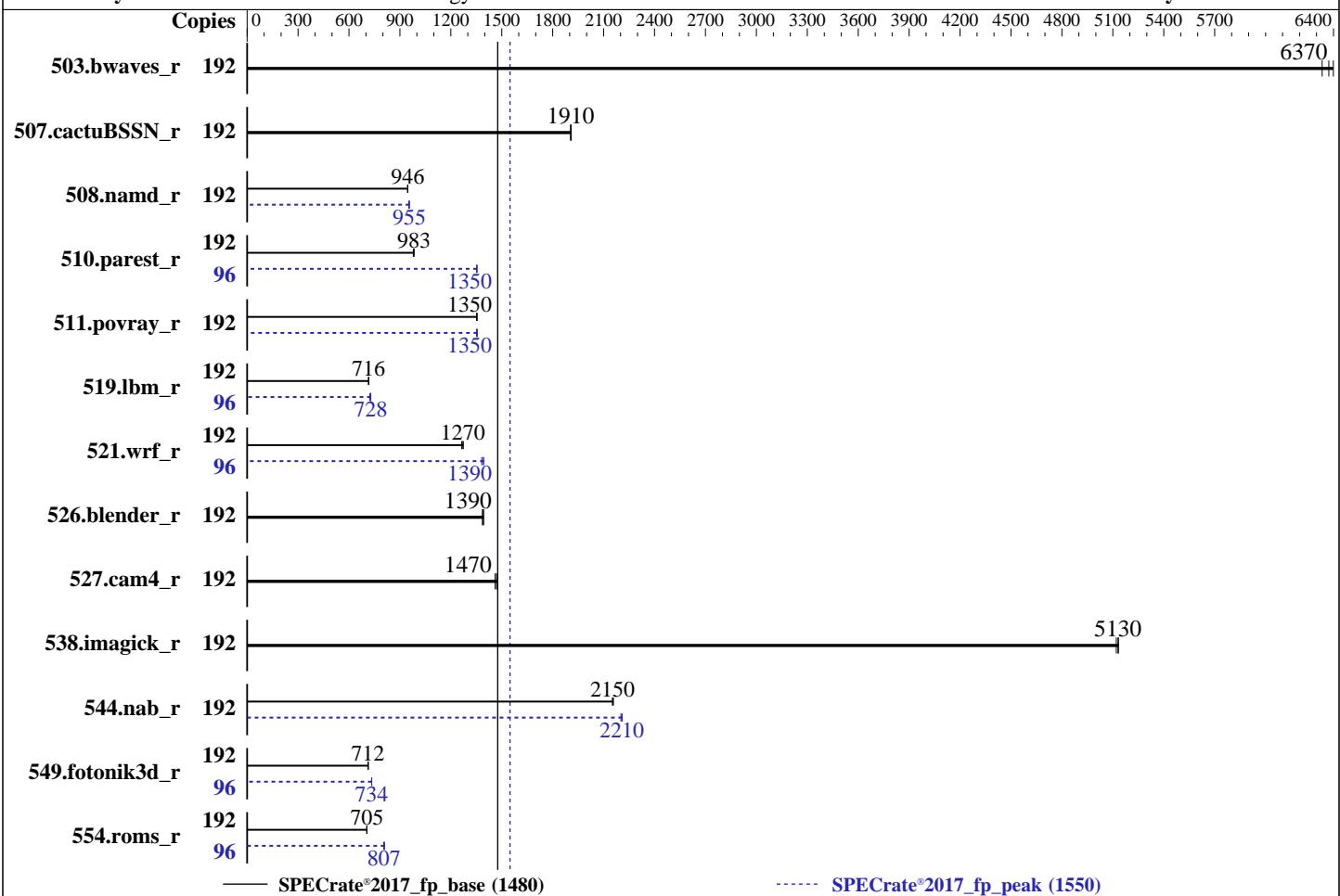
Test Date: Jan-2025

Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024



— SPECrate®2017\_fp\_base (1480)

- - - - - SPECrate®2017\_fp\_peak (1550)

## Hardware

CPU Name: AMD EPYC 9455  
Max MHz: 4400  
Nominal: 3150  
Enabled: 96 cores, 2 chips, 2 threads/core  
Orderable: 1,2 chips  
Cache L1: 32 KB I + 48 KB D on chip per core  
L2: 1 MB I+D on chip per core  
L3: 256 MB I+D on chip per chip,  
32 MB shared / 6 cores  
Other: None  
Memory: 768 GB (24 x 32 GB 2Rx8 PC5-6400B-R, running at 6000)  
Storage: 1 x 480 GB SATA SSD  
Other: CPU Cooling: Air

## Software

OS: SUSE Linux Enterprise Server 15 SP6  
Compiler: Kernel 6.4.0-150600.21-default  
Parallel: C/C++/Fortran: Version 5.0.0 of AOCC  
Firmware: No  
File System: Lenovo BIOS Version KAE13II 5.30 released Dec-2024  
System State: xfs  
Base Pointers: Run level 3 (multi-user)  
Peak Pointers: 64-bit  
Other: 64-bit  
Power Management: None  
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	301	6400	304	6330	<b>302</b>	<b>6370</b>	192	301	6400	304	6330	<b>302</b>	<b>6370</b>
507.cactubSSN_r	192	127	1910	128	1910	<b>128</b>	<b>1910</b>	192	127	1910	128	1910	<b>128</b>	<b>1910</b>
508.namd_r	192	193	947	193	945	<b>193</b>	<b>946</b>	192	<b>191</b>	<b>955</b>	191	956	<b>191</b>	953
510.parest_r	192	511	983	<b>511</b>	<b>983</b>	513	979	96	185	1350	<b>186</b>	<b>1350</b>	186	1350
511.povray_r	192	<b>332</b>	<b>1350</b>	331	1350	332	1350	192	331	1360	<b>331</b>	<b>1350</b>	332	1350
519.lbm_r	192	283	715	283	716	<b>283</b>	<b>716</b>	96	140	723	<b>139</b>	<b>728</b>	139	728
521.wrf_r	192	338	1270	340	1260	<b>338</b>	<b>1270</b>	96	154	1390	156	1380	<b>155</b>	<b>1390</b>
526.blender_r	192	210	1390	211	1390	<b>210</b>	<b>1390</b>	192	210	1390	211	1390	<b>210</b>	<b>1390</b>
527.cam4_r	192	<b>228</b>	<b>1470</b>	228	1470	230	1460	192	<b>228</b>	<b>1470</b>	228	1470	<b>230</b>	1460
538.imagick_r	192	<b>93.1</b>	<b>5130</b>	93.0	5130	93.3	5120	192	<b>93.1</b>	<b>5130</b>	93.0	5130	93.3	5120
544.nab_r	192	<b>150</b>	<b>2150</b>	150	2150	150	2160	192	147	2200	146	2210	<b>146</b>	<b>2210</b>
549.fotonik3d_r	192	<b>1050</b>	<b>712</b>	1048	714	1051	712	96	510	733	<b>510</b>	<b>734</b>	510	734
554.roms_r	192	432	706	<b>433</b>	<b>705</b>	433	705	96	189	809	<b>189</b>	<b>807</b>	189	806

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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.

cpupower set to performance mode

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## Operating System Notes (Continued)

```
cpupower frequency-set -r -g performance
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/cpu2017-1.1.9-amd-aocc500_znver5_A1.2/amd_rate_aocc500_znver5_A_lib/lib:/home/cpu2017-1.1.9-amd-
    -aocc500_znver5_A1.2/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 configuration:

Choose Operating Mode set to Maximum Performance and then set it to Custom Mode

P-State set to Enabled

NUMA Nodes per Socket set to NPS4

L1 Stride Prefetcher set to Disabled

ACPI SRAT L3 Cache as NUMA Domain set to Enabled

```
Sysinfo program /home/cpu2017-1.1.9-amd-aocc500_znver5_A1.2/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Wed Jan 22 09:34:13 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

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## Platform Notes (Continued)

13. Linux kernel boot-time arguments, from /proc/cmdline  
14. cpupower frequency-info  
15. tuned-adm active  
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 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  
09:34:13 up 4 min, 1 user, load average: 0.24, 0.43, 0.24  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT

---

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) 3094018  
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) 3094018  
virtual memory (kbytes, -v) unlimited  
file locks (-x) unlimited

---

5. sysinfo process ancestry  
/usr/lib/systemd/systemd --switched-root --system --deserialize=42  
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups  
sshd: root [priv]  
sshd: root@notty  
/bin/bash ./02.remote\_local\_SPECcpu\_1.01.sh  
/bin/bash ./Run026-compliant-amd-ratefp.sh  
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/CPU2017.028/templogs/preenv.fprate.028.0.log --lognum 028.0 --from\_runcpu 2

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## Platform Notes (Continued)

```
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017-1.1.9-amd-aocc500_znver5_A1.2
```

```
-----  
6. /proc/cpuinfo  
    model name      : AMD EPYC 9455 48-Core Processor  
    vendor_id       : AuthenticAMD  
    cpu family     : 26  
    model          : 2  
    stepping       : 1  
    microcode      : 0xb00211a  
    bugs           : sysret_ss_atrs 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 9455 48-Core Processor
BIOS Model name:	AMD EPYC 9455 48-Core Processor
BIOS CPU family:	Unknown CPU @ 3.1GHz
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:	100%
CPU max MHz:	3150.0000
CPU min MHz:	1500.0000
BogoMIPS:	6290.26
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 aperfmpfperf 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 osw ibr skinit wdt tce topoext perfctr_core perfctr_nb bpext perfctr_llc mwaitx cpb cat_13 cdp_13 hw_pstate ssbd mba perfmon_v2 ibrs ibpb stibp ibrs_enhanced vmmcall fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid cqmq rdt_a avx512f avx512dq rdseed adx smap

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```
avx512ifma clflushopt clwb avx512cd sha_ni avx512bw avx512vl xsaveopt
xsavec xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbm_total
cqmq_mbm_local user_shstk avx_vnni avx512_bf16 clzero irperf
xsaverptr rdpru wbnoinvd amd_ppin cppo arat npt lbrv svm_lock
nrip_save tsc_scale vmcb_clean flushbyasid decodeassists 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
```

Virtualization:

L1d cache:	AMD-V
	4.5 MiB (96 instances)
L1i cache:	3 MiB (96 instances)
L2 cache:	96 MiB (96 instances)
L3 cache:	512 MiB (16 instances)

NUMA node(s):

NUMA node0 CPU(s):	16
	0-5,96-101
NUMA node1 CPU(s):	6-11,102-107
NUMA node2 CPU(s):	12-17,108-113
NUMA node3 CPU(s):	18-23,114-119
NUMA node4 CPU(s):	24-29,120-125
NUMA node5 CPU(s):	30-35,126-131
NUMA node6 CPU(s):	36-41,132-137
NUMA node7 CPU(s):	42-47,138-143
NUMA node8 CPU(s):	48-53,144-149
NUMA node9 CPU(s):	54-59,150-155
NUMA node10 CPU(s):	60-65,156-161
NUMA node11 CPU(s):	66-71,162-167
NUMA node12 CPU(s):	72-77,168-173
NUMA node13 CPU(s):	78-83,174-179
NUMA node14 CPU(s):	84-89,180-185
NUMA node15 CPU(s):	90-95,186-191

Vulnerability Gather data sampling:

Vulnerability Itlb multihit:

Vulnerability Llft:

Vulnerability Mds:

Vulnerability Meltdown:

Vulnerability Mmio stale data:

Vulnerability Reg file data sampling:

Vulnerability Retbleed:

Vulnerability Spec rstack overflow:

Vulnerability Spec store bypass:

Vulnerability Spectre v1:

Vulnerability Spectre v2:

Vulnerability Srbds:

Vulnerability Tsx async abort:

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: 16 nodes (0-15)

node 0 cpus: 0-5,96-101

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## Platform Notes (Continued)

```
node 0 size: 47958 MB
node 0 free: 47641 MB
node 1 cpus: 6-11,102-107
node 1 size: 48342 MB
node 1 free: 48037 MB
node 2 cpus: 12-17,108-113
node 2 size: 48380 MB
node 2 free: 48085 MB
node 3 cpus: 18-23,114-119
node 3 size: 48380 MB
node 3 free: 48069 MB
node 4 cpus: 24-29,120-125
node 4 size: 48380 MB
node 4 free: 47777 MB
node 5 cpus: 30-35,126-131
node 5 size: 48380 MB
node 5 free: 48109 MB
node 6 cpus: 36-41,132-137
node 6 size: 48380 MB
node 6 free: 48108 MB
node 7 cpus: 42-47,138-143
node 7 size: 48380 MB
node 7 free: 48125 MB
node 8 cpus: 48-53,144-149
node 8 size: 48380 MB
node 8 free: 48126 MB
node 9 cpus: 54-59,150-155
node 9 size: 48380 MB
node 9 free: 48130 MB
node 10 cpus: 60-65,156-161
node 10 size: 48380 MB
node 10 free: 48137 MB
node 11 cpus: 66-71,162-167
node 11 size: 48380 MB
node 11 free: 48167 MB
node 12 cpus: 72-77,168-173
node 12 size: 48380 MB
node 12 free: 48103 MB
node 13 cpus: 78-83,174-179
node 13 size: 48380 MB
node 13 free: 48106 MB
node 14 cpus: 84-89,180-185
node 14 size: 48380 MB
node 14 free: 48152 MB
node 15 cpus: 90-95,186-191
node 15 size: 48281 MB
node 15 free: 48029 MB
node distances:
node 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
 0: 10 11 12 12 12 12 12 12 32 32 32 32 32 32 32 32
  1: 11 10 12 12 12 12 12 12 32 32 32 32 32 32 32 32
  2: 12 12 10 11 12 12 12 12 32 32 32 32 32 32 32 32
  3: 12 12 11 10 12 12 12 12 32 32 32 32 32 32 32 32
  4: 12 12 12 12 10 11 12 12 32 32 32 32 32 32 32 32
  5: 12 12 12 12 11 10 12 12 32 32 32 32 32 32 32 32
  6: 12 12 12 12 12 12 10 11 32 32 32 32 32 32 32 32
  7: 12 12 12 12 12 12 11 10 32 32 32 32 32 32 32 32
  8: 32 32 32 32 32 32 32 32 10 11 12 12 12 12 12 12
  9: 32 32 32 32 32 32 32 32 11 10 12 12 12 12 12 12
 10: 32 32 32 32 32 32 32 32 12 12 10 11 12 12 12 12
```

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```
11: 32 32 32 32 32 32 32 32 32 12 12 11 10 12 12 12 12
12: 32 32 32 32 32 32 32 32 32 12 12 12 12 10 11 12 12
13: 32 32 32 32 32 32 32 32 32 12 12 12 12 11 10 12 12
14: 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 10 11
15: 32 32 32 32 32 32 32 32 32 12 12 12 12 12 12 11 10
```

```
-----  
9. /proc/meminfo  
MemTotal: 792095608 kB
```

```
-----  
10. who -r  
run-level 3 Jan 22 09:30
```

```
-----  
11. Systemd service manager version: systemd 254 (254.10+stable.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 issue-generator  
kdbsettings klog lvm2-monitor nsqd postfix purge-kernels rollback rsyslog sapconf smartd  
sshd sysctl-logger systemd-pstore tuned wickedd wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6  
wickedd-nanny  
enabled-runtime systemd-remount-fs  
disabled autofs autoyield-initscripts blk-availability boot-sysctl ca-certificates chrony-wait  
chronyd console-getty cups cups-browsed debug-shell ebttables exchange-bmc-os-info  
firewalld fsidd gpm grub2-once haveged hwloc-dump-hwdata ipmi ipmievrd issue-add-ssh-keys  
kexec-load lunmask man-db-create multipathd nfs nfs-blkmap rpcbind rpmconfigcheck rsyncd  
serial-getty@ smartd_generate_opts snmpd snmptrapd sysstat systemd-boot-check-no-failures  
systemd-confext systemd-network-generator systemd-sysext systemd-time-wait-sync  
systemd-timesyncd  
generated ntp_sync  
indirect systemd-userdbd uuidd wickedd
```

```
-----  
13. Linux kernel boot-time arguments, from /proc/cmdline  
BOOT_IMAGE=/boot/vmlinuz-6.4.0-150600.21-default  
root=UUID=36ce2ea9-ca92-4f5a-b22a-9bea62fad028  
splash=silent  
mitigations=auto  
quiet  
security=apparmor
```

```
-----  
14. cpupower frequency-info  
analyzing CPU 23:  
    current policy: frequency should be within 1.50 GHz and 3.15 GHz.  
        The governor "performance" may decide which speed to use  
        within this range.  
boost state support:  
    Supported: yes  
    Active: yes
```

```
-----  
15. tuned-adm active  
Current active profile: virtual-host
```

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SPECrate®2017\_fp\_base = 1480

SPECrate®2017\_fp\_peak = 1550

CPU2017 License: 9017

Test Date: Jan-2025

Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024

## Platform Notes (Continued)

```
-----  
16. sysctl  
kernel.numa_balancing          1  
kernel.randomize_va_space      0  
vm.compaction_proactiveness   20  
vm.dirty_background_bytes     0  
vm.dirty_background_ratio     5  
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
```

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

```
-----  
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 SUSE Linux Enterprise Server 15 SP6
```

```
-----  
20. Disk information  
SPEC is set to: /home/cpu2017-1.1.9-amd-aocc500_znver5_A1.2  
Filesystem  Type  Size  Used Avail Use% Mounted on  
/dev/sda3    xfs   442G  109G  334G  25% /
```

```
-----  
21. /sys/devices/virtual/dmi/id  
Vendor:      Lenovo  
Product:     ThinkSystem SR645 V3  
Product Family: ThinkSystem  
Serial:      1234567890
```

```
-----  
22. dmidecode  
Additional information from dmidecode 3.4 follows.  WARNING: Use caution when you interpret this section.
```

(Continued on next page)



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## Platform Notes (Continued)

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 HMCG88AHBRA471N 32 GB 2 rank 6400, configured at 6000  
2x SK Hynix HMCG88AHBRA472N 32 GB 2 rank 6400, configured at 6000  
10x SK Hynix HMCG88AHBRA478N 32 GB 2 rank 6400, configured at 6000

-----  
23. BIOS

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

BIOS Vendor: Lenovo  
BIOS Version: KAE131I-5.30  
BIOS Date: 12/17/2024  
BIOS Revision: 5.30  
Firmware Revision: 54.6

## 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)  
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)

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CPU2017 License: 9017

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Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

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

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

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



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CPU2017 License: 9017

Test Date: Jan-2025

Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024

## 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

## 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 -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 -flto
-mllvm -unroll-threshold=100 -mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lamdalloc
-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 -lamdalloc
```

(Continued on next page)



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## Lenovo Global Technology

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SPECrate®2017\_fp\_peak = 1550

CPU2017 License: 9017

Test Date: Jan-2025

Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024

## Base Optimization Flags (Continued)

Fortran benchmarks (continued):

-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 -lamdalloc -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
-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 -lamdalloc -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 -lamdalloc -lflang -ldl
```

## Base Other Flags

C benchmarks:

-Wno-unused-command-line-argument

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Test Sponsor: Lenovo Global Technology

Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024

## Base Other Flags (Continued)

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

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



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CPU2017 License: 9017

Test Sponsor: Lenovo Global Technology

Tested by: Lenovo Global Technology

Test Date: Jan-2025

Hardware Availability: Feb-2025

Software Availability: Oct-2024

## 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
-lamdaloc -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
-lamdaloc -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
```

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Software Availability: Oct-2024

## Peak Optimization Flags (Continued)

549.fotonik3d\_r (continued):

```
-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
-freemap-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
-ldl -lflang
```

527.cam4\_r: basepeak = yes

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
-freemap-arrays -mllvm -reduce-array-computations=3 -zopt
-mllvm -unroll-threshold=100
-mllvm -loop-unswitch-threshold=200000 -lamdlibm
-lamdaloc -ldl
```

526.blender\_r: basepeak = yes

Benchmarks using Fortran, C, and C++:

(Continued on next page)



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Hardware Availability: Feb-2025

Tested by: Lenovo Global Technology

Software Availability: Oct-2024

## Peak Optimization Flags (Continued)

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

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/Lenovo-Platform-SPECcpu2017-Flags-V1.2-Turin-E.html>  
<http://www.spec.org/cpu2017/flags/aocc500-flags.2024-10-10.html>

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

<http://www.spec.org/cpu2017/flags/Lenovo-Platform-SPECcpu2017-Flags-V1.2-Turin-E.xml>  
<http://www.spec.org/cpu2017/flags/aocc500-flags.2024-10-10.xml>

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Tested with SPEC CPU®2017 v1.1.9 on 2025-01-21 20:34:13-0500.

Report generated on 2025-02-11 17:14:35 by CPU2017 PDF formatter v6716.

Originally published on 2025-02-11.