



SPEC CPU®2017 Integer Speed Result

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New H3C Technologies Co., Ltd.

H3C UniServer R4950 G7
AMD EPYC 9754

SPECSpeed®2017_int_base = 11.7

SPECSpeed®2017_int_peak = 11.9

CPU2017 License: 9066

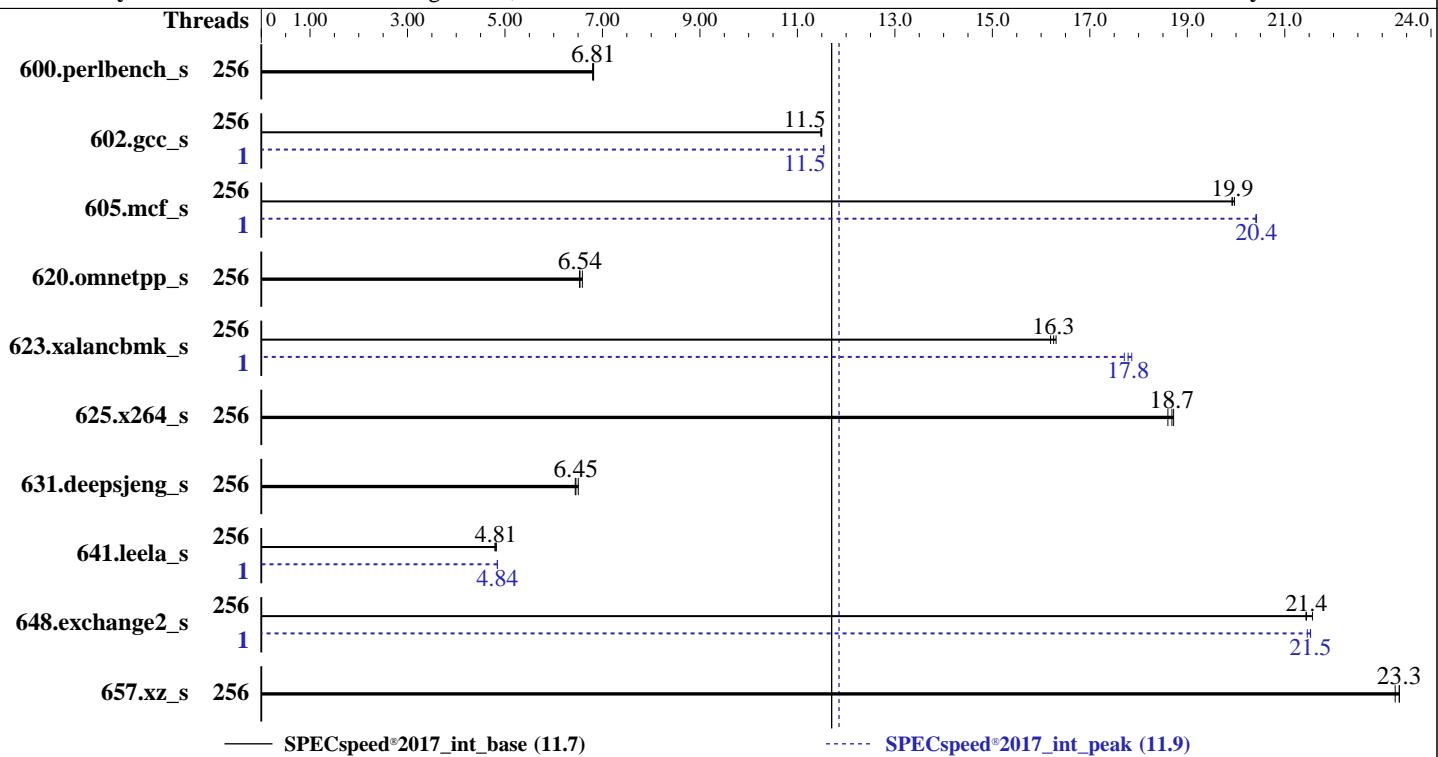
Test Sponsor: New H3C Technologies Co., Ltd.

Tested by: New H3C Technologies Co., Ltd.

Test Date: Mar-2025

Hardware Availability: Oct-2024

Software Availability: Oct-2024



Hardware

CPU Name: AMD EPYC 9754
Max MHz: 3100
Nominal: 2250
Enabled: 256 cores, 2 chips, 2 threads/core
Orderable: 1,2 chips
Cache L1: 32 KB I + 32 KB D on chip per core
L2: 1 MB I+D on chip per core
L3: 256 MB I+D on chip per chip, 16 MB shared / 8 cores
Other: None
Memory: 1536 GB (24 x 64 GB 2Rx4 PC5-4800B-R)
Storage: 1 x 3.84TB SSD
Other: CPU Cooling: Air

Software

OS: Red Hat Enterprise Linux 9.4 (Plow)
Compiler: kernel version 5.14.0-427.13.1.el9_4.x86_64
Parallel: C/C++/Fortran: Version 5.0.0 of AOCC
Firmware: Yes
File System: Version 6.30.37P01 released Mar-2025
System State: xfs
Base Pointers: Run level 3 (multi-user)
Peak Pointers: 64-bit
Other: 64-bit
Power Management: None
Power Management: BIOS and OS set to prefer performance at the cost of additional power usage



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Results Table

Benchmark	Base								Peak							
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	256	261	6.80	260	6.81	260	6.82	256	261	6.80	260	6.81	260	6.82		
602.gcc_s	256	346	11.5	346	11.5	347	11.5	1	345	11.5	345	11.5	345	11.5		
605.mcf_s	256	237	19.9	236	20.0	237	19.9	1	231	20.4	231	20.4	231	20.4		
620.omnetpp_s	256	248	6.59	249	6.54	250	6.53	256	248	6.59	249	6.54	250	6.53		
623.xalancbmk_s	256	87.2	16.3	86.9	16.3	87.5	16.2	1	79.7	17.8	79.3	17.9	80.0	17.7		
625.x264_s	256	94.4	18.7	94.2	18.7	94.8	18.6	256	94.4	18.7	94.2	18.7	94.8	18.6		
631.deepsjeng_s	256	220	6.50	222	6.44	222	6.45	256	220	6.50	222	6.44	222	6.45		
641.leela_s	256	356	4.79	355	4.81	354	4.82	1	352	4.84	352	4.85	352	4.84		
648.exchange2_s	256	137	21.4	136	21.6	137	21.4	1	137	21.5	137	21.5	137	21.5		
657.xz_s	256	266	23.3	265	23.4	265	23.3	256	266	23.3	265	23.4	265	23.3		

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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,
'echo always > /sys/kernel/mm/transparent_hugepage/enabled' and
'echo always > /sys/kernel/mm/transparent_hugepage/defrag' run as root.



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Environment Variables Notes

Environment variables set by runcpu before the start of the run:

```
GOMP_CPU_AFFINITY = "0-511"
LD_LIBRARY_PATH =
    "/home/cpu2017/amd_speed_aocc500_znver5_A/lib/lib:/home/cpu2017/amd_speed_aocc500_znver5_A/lib/lib32:/
     usr/local/mpc-131/lib:/usr/local/gmp-630/lib:/usr/local/mpfr-421/lib:/usr/local/isl-027/lib:/usr/local
     /gcc-1420/lib64:/usr/local/lib:/usr/lib"
LIBOMP_NUM_HIDDEN_HELPER_THREADS = "0"
MALLOC_CONF = "retain:true"
OMP_DYNAMIC = "false"
OMP_SCHEDULE = "static"
OMP_STACKSIZE = "128M"
OMP_THREAD_LIMIT = "512"
```

Environment variables set by runcpu during the 602.gcc_s peak run:

```
GOMP_CPU_AFFINITY = "0"
```

Environment variables set by runcpu during the 605.mcf_s peak run:

```
GOMP_CPU_AFFINITY = "0"
```

Environment variables set by runcpu during the 623.xalancbmk_s peak run:

```
GOMP_CPU_AFFINITY = "0"
```

Environment variables set by runcpu during the 641.leela_s peak run:

```
GOMP_CPU_AFFINITY = "0"
```

Environment variables set by runcpu during the 648.exchange2_s peak run:

```
GOMP_CPU_AFFINITY = "0"
```

General Notes

Binaries were compiled on a system with 2x AMD EPYC 9D64 CPU + 500GiB Memory using Ubuntu 22.04

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:
SMT Control set to Enabled
SVM Mode set to Disabled
Power Profile Selection set to High Performance Mode
Determinism Slider set to Power
cTDP set to 400
PPT set to 400
NUMA nodes per socket set to NPS 4
ACPI SRAT L3 cache as NUMA domain set to Enabled

```
Sysinfo program /home/cpu2017/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Fri Mar 21 12:46:44 2025
```

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

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Platform Notes (Continued)

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12. Failed units, from systemctl list-units --state=failed
13. Services, from systemctl list-unit-files
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```
1. uname -a
Linux localhost.localdomain 5.14.0-427.13.1.el9_4.x86_64 #1 SMP PREEMPT_DYNAMIC Wed Apr 10 10:29:16 EDT
2024 x86_64 x86_64 x86_64 GNU/Linux
```

```
2. w
12:46:44 up 9:45, 2 users, load average: 0.49, 0.14, 0.05
USER     TTY      LOGIN@    IDLE   JCPU   PCPU WHAT
root     pts/0    03:02   9:44m  0.00s  0.00s -bash
root     pts/0    03:03   52.00s  1.55s  0.28s /bin/bash ./amd_speed_aocc500_znver5_A1.sh
```

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

```
4. ulimit -a
real-time non-blocking time (microseconds, -R) unlimited
core file size (blocks, -c) 0
data seg size (kbytes, -d) unlimited
scheduling priority (-e) 0
file size (blocks, -f) unlimited
pending signals (i) 6188189
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
```

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Platform Notes (Continued)

```
cpu time          (seconds, -t) unlimited
max user processes      (-u) 6188189
virtual memory        (kbytes, -v) unlimited
file locks            (-x) unlimited

-----
5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize 31
sshd: /usr/sbin/sshd -D [listener] 0 of 10-100 startups
sshd: root [priv]
sshd: root@pts/0
-bash
python3 ./run_amd_speed_aocc500_znver5_A1.py
/bin/bash ./amd_speed_aocc500_znver5_A1.sh
runcpu --config amd_speed_aocc500_znver5_A1.cfg --tune all --reportable --iterations 3 intspeed
runcpu --configfile amd_speed_aocc500_znver5_A1.cfg --tune all --reportable --iterations 3 --nopower
--runmode speed --tune base:peak --size test:train:refspeed intspeed --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2017.004/templogs/preenv.intspeed.004.0.log --lognum 004.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/cpu2017

-----
6. /proc/cpuinfo
model name      : AMD EPYC 9754 128-Core Processor
vendor_id       : AuthenticAMD
cpu family     : 25
model          : 160
stepping        : 1
microcode       : 0xaa00116
bugs           : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass srso
TLB size        : 3584 4K pages
cpu cores      : 128
siblings        : 256
2 physical ids (chips)
512 processors (hardware threads)
physical id 0: core ids 0-127
physical id 1: core ids 0-127
physical id 0: apicids 0-255
physical id 1: apicids 256-511
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 2.37.4:
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):                512
On-line CPU(s) list:   0-511
Vendor ID:              Advanced Micro Devices, Inc.
BIOS Vendor ID:        AMD
Model name:             AMD EPYC 9754 128-Core Processor
BIOS Model name:        AMD EPYC 9754 128-Core Processor
CPU family:             25
Model:                 160
Thread(s) per core:    2
Core(s) per socket:    128
```

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Platform Notes (Continued)

Socket(s): 2
Stepping: 1
Frequency boost: enabled
CPU(s) scaling MHz: 73%
CPU max MHz: 3100.3411
CPU min MHz: 1500.0000
BogoMIPS: 4489.58
Flags:
fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36
clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp
lm constant_tsc rep_good amd_lbr_v2 nopl nonstop_tsc cpuid extd_apicid
aperfmperf rapl pni pclmulqdq monitor ssse3 fma cx16 pcid sse4_1 sse4_2
x2apic movbe popcnt aes xsave avx f16c rdrand lahf_lm cmp_legacy
extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw ibs 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 bml1 avx2 smep bml2 erms invpcid cqm
rdt_a avx512f avx512dq rdseed adx smap avx512ifma clflushopt clwb
avx512cd sha_ni avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves
cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local avx512_bf16 clzero
irperf xsaveerptr rdpru wbnoinvd amd_ppin cppc arat npt lbrv svm_lock
nrip_save tsc_scale vmcb_clean flushbyasid decodeassist pausefilter
pfthreshold avic v_vmsave_vmlload vgif x2avic v_spec_ctrl vnmi
avx512vbmi umip pkupk uospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni
avx512_bitalg avx512_vpocndq la57 rdpid overflow_recov succor smca
fsrm flush_lld debug_swap
L1d cache: 8 MiB (256 instances)
L1i cache: 8 MiB (256 instances)
L2 cache: 256 MiB (256 instances)
L3 cache: 512 MiB (32 instances)
NUMA node(s): 32
NUMA node0 CPU(s): 0-7, 256-263
NUMA node1 CPU(s): 8-15, 264-271
NUMA node2 CPU(s): 16-23, 272-279
NUMA node3 CPU(s): 24-31, 280-287
NUMA node4 CPU(s): 32-39, 288-295
NUMA node5 CPU(s): 40-47, 296-303
NUMA node6 CPU(s): 48-55, 304-311
NUMA node7 CPU(s): 56-63, 312-319
NUMA node8 CPU(s): 64-71, 320-327
NUMA node9 CPU(s): 72-79, 328-335
NUMA node10 CPU(s): 80-87, 336-343
NUMA node11 CPU(s): 88-95, 344-351
NUMA node12 CPU(s): 96-103, 352-359
NUMA node13 CPU(s): 104-111, 360-367
NUMA node14 CPU(s): 112-119, 368-375
NUMA node15 CPU(s): 120-127, 376-383
NUMA node16 CPU(s): 128-135, 384-391
NUMA node17 CPU(s): 136-143, 392-399
NUMA node18 CPU(s): 144-151, 400-407
NUMA node19 CPU(s): 152-159, 408-415
NUMA node20 CPU(s): 160-167, 416-423
NUMA node21 CPU(s): 168-175, 424-431
NUMA node22 CPU(s): 176-183, 432-439
NUMA node23 CPU(s): 184-191, 440-447
NUMA node24 CPU(s): 192-199, 448-455
NUMA node25 CPU(s): 200-207, 456-463
NUMA node26 CPU(s): 208-215, 464-471
NUMA node27 CPU(s): 216-223, 472-479
NUMA node28 CPU(s): 224-231, 480-487
NUMA node29 CPU(s): 232-239, 488-495

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Platform Notes (Continued)

NUMA node30 CPU(s):	240-247,496-503
NUMA node31 CPU(s):	248-255,504-511
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 Retbleed:	Not affected
Vulnerability Spec rstack overflow:	Mitigation; Safe RET
Vulnerability Spec store bypass:	Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1:	Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2:	Mitigation; Enhanced / Automatic IBRS, IBPB conditional, STIBP always-on, RSB filling, PBRSB-eIBRS 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	32K	8M	8	Data	1	64	1	64
L1i	32K	8M	8	Instruction	1	64	1	64
L2	1M	256M	8	Unified	2	2048	1	64
L3	16M	512M	16	Unified	3	16384	1	64

8. numactl --hardware

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

available: 32 nodes (0-31)

node 0 cpus: 0-7,256-263

node 0 size: 47436 MB

node 0 free: 46761 MB

node 1 cpus: 8-15,264-271

node 1 size: 48379 MB

node 1 free: 47757 MB

node 2 cpus: 16-23,272-279

node 2 size: 48379 MB

node 2 free: 47740 MB

node 3 cpus: 24-31,280-287

node 3 size: 48379 MB

node 3 free: 47740 MB

node 4 cpus: 32-39,288-295

node 4 size: 48379 MB

node 4 free: 47694 MB

node 5 cpus: 40-47,296-303

node 5 size: 48379 MB

node 5 free: 47293 MB

node 6 cpus: 48-55,304-311

node 6 size: 48379 MB

node 6 free: 47763 MB

node 7 cpus: 56-63,312-319

node 7 size: 48379 MB

node 7 free: 47765 MB

node 8 cpus: 64-71,320-327

node 8 size: 48379 MB

node 8 free: 47624 MB

node 9 cpus: 72-79,328-335

node 9 size: 48379 MB

node 9 free: 47750 MB

node 10 cpus: 80-87,336-343

node 10 size: 48338 MB

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Platform Notes (Continued)

```
node 10 free: 47720 MB
node 11 cpus: 88-95,344-351
node 11 size: 48379 MB
node 11 free: 47758 MB
node 12 cpus: 96-103,352-359
node 12 size: 48379 MB
node 12 free: 47727 MB
node 13 cpus: 104-111,360-367
node 13 size: 48379 MB
node 13 free: 47768 MB
node 14 cpus: 112-119,368-375
node 14 size: 48379 MB
node 14 free: 47750 MB
node 15 cpus: 120-127,376-383
node 15 size: 48379 MB
node 15 free: 47757 MB
node 16 cpus: 128-135,384-391
node 16 size: 48379 MB
node 16 free: 47742 MB
node 17 cpus: 136-143,392-399
node 17 size: 48379 MB
node 17 free: 47775 MB
node 18 cpus: 144-151,400-407
node 18 size: 48379 MB
node 18 free: 47760 MB
node 19 cpus: 152-159,408-415
node 19 size: 48379 MB
node 19 free: 47751 MB
node 20 cpus: 160-167,416-423
node 20 size: 48377 MB
node 20 free: 47725 MB
node 21 cpus: 168-175,424-431
node 21 size: 48381 MB
node 21 free: 47740 MB
node 22 cpus: 176-183,432-439
node 22 size: 48377 MB
node 22 free: 47723 MB
node 23 cpus: 184-191,440-447
node 23 size: 48381 MB
node 23 free: 47755 MB
node 24 cpus: 192-199,448-455
node 24 size: 48379 MB
node 24 free: 47743 MB
node 25 cpus: 200-207,456-463
node 25 size: 48379 MB
node 25 free: 47486 MB
node 26 cpus: 208-215,464-471
node 26 size: 48379 MB
node 26 free: 47744 MB
node 27 cpus: 216-223,472-479
node 27 size: 48379 MB
node 27 free: 47755 MB
node 28 cpus: 224-231,480-487
node 28 size: 48379 MB
node 28 free: 47730 MB
node 29 cpus: 232-239,488-495
node 29 size: 48379 MB
node 29 free: 47752 MB
node 30 cpus: 240-247,496-503
node 30 size: 48379 MB
```

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Platform Notes (Continued)

```
node 30 free: 47723 MB
node 31 cpus: 248-255,504-511
node 31 size: 48299 MB
node 31 free: 47682 MB
node distances:
node 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24
25 26 27 28 29 30 31
 0: 10 11 11 11 12 12 12 12 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 1: 11 10 11 11 12 12 12 12 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 2: 11 11 10 11 12 12 12 12 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 3: 11 11 11 10 12 12 12 12 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 4: 12 12 12 12 10 11 11 11 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 5: 12 12 12 12 11 10 11 11 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22
 6: 12 12 12 12 11 11 10 11 12 12 12 12 12 12 12 22 22 22 22 22 22 22 22 22
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12: 12 12 12 12 12 12 12 12 12 12 12 12 12 12 12 10 11 11 11 22 22 22 22 22
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25: 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 22 12 12
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SPEC CPU®2017 Integer Speed Result

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New H3C Technologies Co., Ltd. H3C UniServer R4950 G7 AMD EPYC 9754	SPECspeed®2017_int_base = 11.7
	SPECspeed®2017_int_peak = 11.9
CPU2017 License: 9066	Test Date: Mar-2025
Test Sponsor: New H3C Technologies Co., Ltd.	Hardware Availability: Oct-2024
Tested by: New H3C Technologies Co., Ltd.	Software Availability: Oct-2024

Platform Notes (Continued)

9. /proc/meminfo
MemTotal: 1584220392 kB

10. who -r
run-level 3 Mar 21 03:02

```
11. Systemd service manager version: systemd 252 (252-32.el9_4)
   Default Target      Status
   multi-user          degraded
```

```
12. Failed units, from systemctl list-units --state=failed
   UNIT                  LOAD  ACTIVE SUB      DESCRIPTION
 * dnf-makecache.service loaded failed failed dnf makecache
```

```
13. Services, from systemctl list-unit-files
   STATE           UNIT FILES
  enabled          NetworkManager NetworkManager-dispatcher NetworkManager-wait-online audited chronyd crond
                   dbus-broker getty@ insights-client-boot irqbalance kdump lvm2-monitor mdmonitor microcode
                   nis-domainname rhsmcertd rsyslog selinux-autorelabel-mark sshd sssd systemd-boot-update
                   systemd-network-generator tuned udisks2
  enabled-runtime  systemd-remount-fs
disabled          blk-availability chrony-wait chronyd-restricted console-getty cpupower debug-shell
                   dnf-system-upgrade firewalld hwloc-dump-hwdata kvm_stat man-db-restart-cache-update
                   nftables rdisc rhcd rhsm rhsm-facts rpmbdb-rebuild selinux-check-proper-disable
                   serial-getty@ sshd-keygen@ systemd-boot-check-no-failures systemd-pstore systemd-sysext
  indirect         sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo systemd-sysupdate
                   systemd-sysupdate-reboot
```

```
14. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=(hd0,gpt2)/vmlinuz-5.14.0-427.13.1.el9_4.x86_64
root=/dev/mapper/rhel-root
ro
crashkernel=1G-4G:192M,4G-64G:256M,64G-:512M
resume=/dev/mapper/rhel-swap
rd.lvm.lv=rhel/root
rd.lvm.lv=rhel/swap
```

```
15. cpupower frequency-info
analyzing CPU 301:
    current policy: frequency should be within 1.50 GHz and 2.25 GHz.
                    The governor "performance" may decide which speed to use
```

(Continued on next page)



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Software Availability: Oct-2024

Platform Notes (Continued)

within this range.

boost state support:

Supported: yes
Active: yes
Boost States: 0
Total States: 3
Pstate-P0: 2250MHz

16. tuned-adm active

Current active profile: throughput-performance

17. 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

18. /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

19. /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

20. OS release

From /etc/*-release /etc/*-version	
os-release	Red Hat Enterprise Linux 9.4 (Plow)
redhat-release	Red Hat Enterprise Linux release 9.4 (Plow)
system-release	Red Hat Enterprise Linux release 9.4 (Plow)

21. Disk information

(Continued on next page)



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Software Availability: Oct-2024

Platform Notes (Continued)

SPEC is set to: /home/cpu2017

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/mapper/rhel-home	xfs	3.5T	44G	3.4T	2%	/home

22. /sys/devices/virtual/dmi/id

Vendor:	N/A
Product:	N/A
Product Family:	Rack
Serial:	N/A

23. 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:

1x	SK Hynix	HMCG94AEBRA102N	64 GB	2 rank	4800
17x	SK Hynix	HMCG94AEBRA109N	64 GB	2 rank	4800
4x	SK Hynix	HMCG94AEBRA123N	64 GB	2 rank	4800
2x	SK Hynix	HMCG94MEBRA109N	64 GB	2 rank	4800

24. BIOS

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

BIOS Vendor:	American Megatrends International, LLC.
BIOS Version:	6.30.37P01
BIOS Date:	03/20/2025
BIOS Revision:	5.27

Compiler Version Notes

=====

C	600.perlbench_s(base, peak) 602.gcc_s(base, peak) 605.mcf_s(base, peak) 625.x264_s(base, peak)
	657.xz_s(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++	620.omnetpp_s(base, peak) 623.xalancbmk_s(base, peak) 631.deepsjeng_s(base, peak)
	641.leela_s(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	648.exchange2_s(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)



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AMD EPYC 9754

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SPECspeed®2017_int_peak = 11.9

CPU2017 License: 9066

Test Date: Mar-2025

Test Sponsor: New H3C Technologies Co., Ltd.

Hardware Availability: Oct-2024

Tested by: New H3C Technologies Co., Ltd.

Software Availability: Oct-2024

Compiler Version Notes (Continued)

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

Base Portability Flags

600.perlbench_s: -DSPEC_LINUX_X64 -DSPEC_LP64
602.gcc_s: -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalancbmk_s: -DSPEC_LINUX -DSPEC_LP64
625.x264_s: -DSPEC_LP64
631.deepsjeng_s: -DSPEC_LP64
641.leela_s: -DSPEC_LP64
648.exchange2_s: -DSPEC_LP64
657.xz_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-allow-multiple-definition -Wl,-mllvm -Wl,-extra-inliner -O3
-march=znver5 -fveclib=AMDLIBM -ffast-math -fopenmp -DSPEC_OPENMP
-flto -fremap-arrays -fstrip-mining -fstruct-layout=7
-mllvm -inline-threshold=1000 -mllvm -reduce-array-computations=3
-mllvm -unroll-threshold=50 -zopt -fopenmp=libomp -lomp -lamdlibm
-lflang -lamdalloc

C++ benchmarks:

-m64 -std=c++14 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6

(Continued on next page)



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CPU2017 License: 9066

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Test Sponsor: New H3C Technologies Co., Ltd.

Hardware Availability: Oct-2024

Tested by: New H3C Technologies Co., Ltd.

Software Availability: Oct-2024

Base Optimization Flags (Continued)

C++ benchmarks (continued):

```
-Wl,-mllvm -Wl,-reduce-array-computations=3 -O3 -march=znver5
-fveclib=AMDLIBM -ffast-math -fopenmp -DSPEC_OPENMP -flto
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -mllvm -unroll-threshold=100 -zopt
-fvirtual-function-elimination -fvisibility=hidden -fopenmp=libomp
-lomp -lamdlibm -flang -lamdalloc-ext
```

Fortran benchmarks:

```
-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-enable-iv-split -Wl,-mllvm -Wl,-inline-recursion=4
-Wl,-mllvm -Wl,-lsr-in-nested-loop -O3 -march=znver5 -fveclib=AMDLIBM
-ffast-math -fopenmp -flto -mllvm -optimize-strided-mem-cost
-mllvm -unroll-aggressive -mllvm -unroll-threshold=150 -fopenmp=libomp
-lomp -lamdlibm -flang -lamdalloc
```

Base Other Flags

C benchmarks:

```
-Wno-return-type -Wno-unused-command-line-argument
```

C++ benchmarks:

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

Fortran benchmarks:

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

Peak Compiler Invocation

C benchmarks:

```
clang
```

C++ benchmarks:

```
clang++
```

Fortran benchmarks:

```
flang
```



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CPU2017 License: 9066

Test Date: Mar-2025

Test Sponsor: New H3C Technologies Co., Ltd.

Hardware Availability: Oct-2024

Tested by: New H3C Technologies Co., Ltd.

Software Availability: Oct-2024

Peak Portability Flags

Same as Base Portability Flags

Peak Optimization Flags

C benchmarks:

600.perlbench_s: basepeak = yes

```
602.gcc_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-allow-multiple-definition
-Wl,-mllvm -Wl,-extra-inliner -Ofast -march=znver5
-fveclib=AMDLIBM -ffast-math -fopenmp -flto
-DSPEC_OPENMP -fremap-arrays -fstrip-mining
-fstruct-layout=9 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3
-mllvm -unroll-threshold=50 -zopt -fopenmp=libomp -lomp
-lamdlibm -lamdalloc -lflang
```

```
605.mcf_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-extra-inliner -Ofast -march=znver5
-fveclib=AMDLIBM -ffast-math -fopenmp -flto
-DSPEC_OPENMP -fremap-arrays -fstrip-mining
-fstruct-layout=9 -mllvm -inline-threshold=1000
-mllvm -reduce-array-computations=3
-mllvm -unroll-threshold=50 -zopt -fopenmp=libomp -lomp
-lamdlibm -lamdalloc -lflang
```

625.x264_s: basepeak = yes

657.xz_s: basepeak = yes

C++ benchmarks:

620.omnetpp_s: basepeak = yes

```
623.xalancbmk_s: -m64 -std=c++14
-Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-do-block-reorder=advanced -Ofast
-march=znver5 -fveclib=AMDLIBM -ffast-math -fopenmp
-flto -DSPEC_OPENMP -mllvm -reduce-array-computations=3
-mllvm -unroll-threshold=100 -zopt
```

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Software Availability: Oct-2024

Peak Optimization Flags (Continued)

623.xalancbmk_s (continued):

```
-fvirtual-function-elimination -fvisibility=hidden
-mllvm -do-block-reorder=advanced -fopenmp=libomp -lomp
-lamdlibm -lamdalloc-ext -lflang
```

631.deepsjeng_s: basepeak = yes

```
641.leela_s: -m64 -std=c++14
-Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast
-march=znver5 -fveclib=AMDLIBM -ffast-math -fopenmp
-flto -DSPEC_OPENMP -mllvm -reduce-array-computations=3
-mllvm -unroll-threshold=100 -zopt
-fvirtual-function-elimination -fvisibility=hidden
-fopenmp=libomp -lomp -lamdlibm -lamdalloc -lflang
```

Fortran benchmarks:

```
-m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-enable-iv-split -Wl,-mllvm -Wl,-inline-recursion=4
-Wl,-mllvm -Wl,-lsr-in-nested-loop -O3 -march=znver5 -fveclib=AMDLIBM
-ffast-math -fopenmp -flto -mllvm -optimize-strided-mem-cost
-mllvm -unroll-aggressive -mllvm -unroll-threshold=150 -fopenmp=libomp
-lomp -lamdlibm -lamdalloc -lflang
```

Peak Other Flags

C benchmarks:

```
-Wno-return-type -Wno-unused-command-line-argument
```

C++ benchmarks:

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

Fortran benchmarks:

```
-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/New_H3C-Platform-AMD-Settings-V1.7-Turin.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/New_H3C-Platform-AMD-Settings-V1.7-Turin.xml



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