



SPEC CPU®2017 Integer Rate Result

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ZTE Corporation

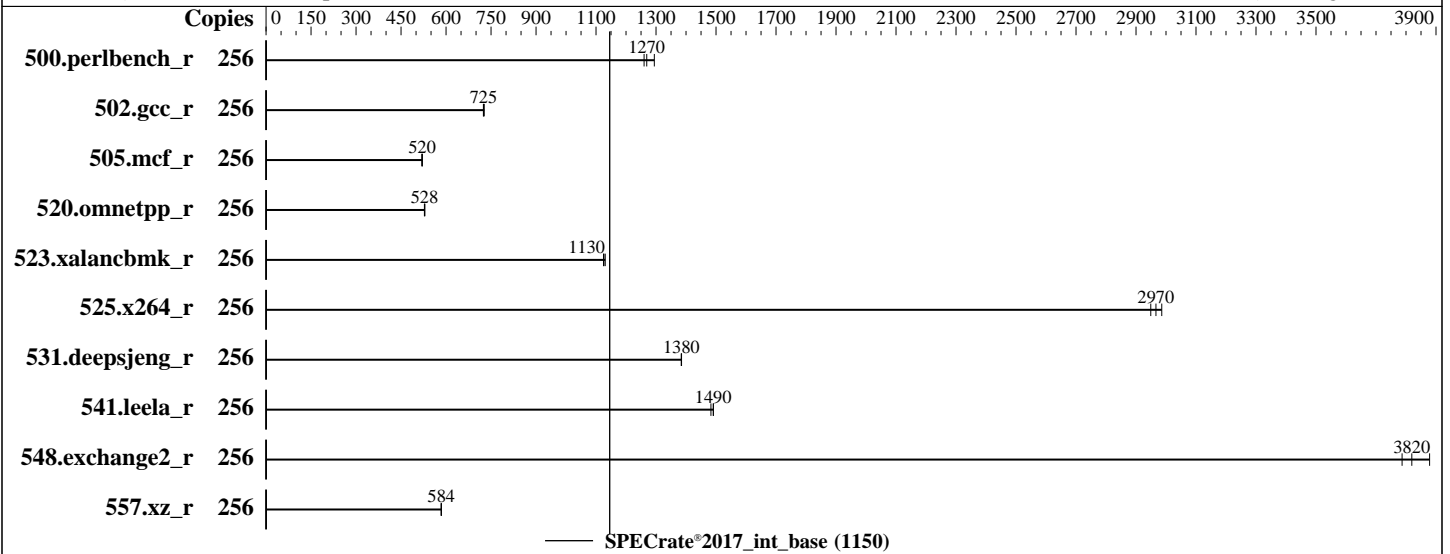
ZTE R5310G3 Server System
(3.10 GHz, ZXIC ZhuFengXin 8167)

SPECrate®2017_int_base = 1150

SPECrate®2017_int_peak = Not Run

CPU2017 License: 9061
Test Sponsor: ZTE Corporation
Tested by: ZTE Corporation

Test Date: Aug-2024
Hardware Availability: Jun-2024
Software Availability: Aug-2022



Hardware

CPU Name: ZXIC ZhuFengXin 8167
Max MHz: 3100
Nominal: 3100
Enabled: 256 cores, 2 chips
Orderable: 1,2 chips
Cache L1: 64 KB I + 64 KB D on chip per core
L2: 1 MB I+D on chip per core
L3: 128 MB I+D on chip per chip
Other: None
Memory: 1 TB (16 x 64 GB 2Rx4 PC5-5600B-R)
Storage: 1 x 480 GB SATA SSD
Other: CPU Cooling: Air

Software

OS: CentOS Stream 8
4.18.0-408.el8.aarch64
Compiler: C/C++/Fortran: Version 12.2.0 of GCC, the GNU Compiler Collection
Parallel: No
Firmware: Version 31.24.03.00 released Jul-2024
File System: xfs
System State: Run level 3 (multi-user)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other: Jemalloc memory allocator library v5.2.1
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
500.perlbench_r	256	315	1290	323	1260	321	1270							
502.gcc_r	256	500	725	500	725	498	727							
505.mcf_r	256	795	520	794	521	796	519							
520.omnetpp_r	256	636	528	634	529	636	528							
523.xalancbmk_r	256	240	1120	240	1130	239	1130							
525.x264_r	256	150	2990	152	2950	151	2970							
531.deepsjeng_r	256	212	1380	212	1390	212	1380							
541.leela_r	256	284	1490	284	1490	286	1480							
548.exchange2_r	256	173	3880	177	3790	176	3820							
557.xz_r	256	473	584	473	584	473	584							

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

Submit Notes

The numactl mechanism was used to bind copies to processors. The config file option 'submit' was used to generate numactl commands to bind each copy to a specific processor. For details, please see the config file.

Operating System Notes

Stack size set to unlimited using "ulimit -s unlimited"
OS set to performance mode via cpupower frequency-set -g performance

Environment Variables Notes

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

```
LD_LIBRARY_PATH =
"/usr/local/jemalloc-5.2.1_install/lib:/usr/local/gcc-12.2.0/lib64:/usr/local/gcc-12.2.0/lib:/usr/local/gcc-12.2.0/lib64:"
```

General Notes

Binaries compiled on a system with 2x ZXIC ZhuFengXin 8167 CPU + 1 TB RAM
memory using CentOS Stream 8
Transparent Huge Pages enabled by default
Prior to runcpu invocation
Filesystem page cache synced and cleared with:
sync; echo 3> /proc/sys/vm/drop_caches
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.

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General Notes (Continued)

jemalloc, a general purpose malloc implementation
built with the CentOS Stream 8, and the system compiler gcc 12.2.0
sources available from jemalloc.net or <https://github.com/jemalloc/jemalloc/releases>

Platform Notes

Sysinfo program /home/zfu/speccpu2017/speccpu2017_install/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost.localdomain Mon Aug 5 08:29:22 2024

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

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4. ulimit -a
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```
1. uname -a
Linux localhost.localdomain 4.18.0-408.el8.aarch64 #1 SMP Mon Jul 18 15:47:44 UTC 2022 aarch64 aarch64
aarch64 GNU/Linux
```

```
2. w
08:29:22 up 10 min, 3 users, load average: 0.00, 1.17, 1.48
USER      TTY      FROM          LOGIN@      IDLE        JCPU        PCPU WHAT
root     pts/0    198.168.42.111 08:19      13.00s     1.19s     0.07s -bash
root     pts/1    198.168.42.111 08:20       7.00s     0.04s     0.04s -bash
root     pts/2    198.168.42.111 08:20       9:02     0.03s     0.03s -bash
```

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

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Platform Notes (Continued)

```

4. ulimit -a
core file size          (blocks, -c) 0
data seg size          (kbytes, -d) unlimited
scheduling priority    (-e) 0
file size              (blocks, -f) unlimited
pending signals        (-i) 1028357
max locked memory      (kbytes, -l) 64
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) 1028357
virtual memory         (kbytes, -v) unlimited
file locks             (-x) unlimited

```

```

5. sysinfo process ancestry
/usr/lib/systemd/systemd --switched-root --system --deserialize 18
/usr/sbin/sshd -D
-oCiphers=aes256-gcm@openssh.com,chacha20-poly1305@openssh.com,aes256-ctr,aes256-cbc,aes128-gcm@openssh.com,aes128-ctr,aes128-cbc
-oMACs= hmac-sha2-256-etm@openssh.com, hmac-sha1-etm@openssh.com, umac-128-etm@openssh.com, hmac-sha2-512-etm@openssh.com, hmac-sha2-256, hmac-sha1, umac-128@openssh.com, hmac-sha2-512...
sshd: root [priv]
sshd: root@pts/0
-bash
runcpu --config=zfx-gcc12.2-armv9-256core.cfg --reportable --copies=256 --threads=256 --iterations=3
--tune=base --action=run intrate
runcpu --configfile zfx-gcc12.2-armv9-256core.cfg --reportable --copies 256 --threads 256 --iterations 3
--tune base --action run --nopower --runmode rate --tune base --size refrate intrate --nopreenv
--note-preenv --logfile $SPEC/tmp/CPU2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0
--from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/zfu/speccpu2017/speccpu2017_install

```

```

6. /proc/cpuinfo
CPU implementer : 0x41
CPU architecture: 8
CPU variant    : 0x0
CPU part      : 0xd49
CPU revision   : 1
Features      : fp asimd evtstrm crc32 atomics fphp asimdhp cpuid asimdrdm jscvt fcma lrcpc dcpop
               asimddp sve asimdfhm dit uscat ilrcpc flagm ssbs sb dcpodp sve2 svebitperm flagm2 frint
               svei8mm svebf16 i8mm bf16 dgh

```

```

7. lscpu

From lscpu from util-linux 2.32.1:
Architecture: aarch64
Byte Order: Little Endian
CPU(s): 256
On-line CPU(s) list: 0-255
Thread(s) per core: 1
Core(s) per socket: 128

```

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Platform Notes (Continued)

```

Socket(s):                2
NUMA node(s):             4
Vendor ID:                ARM
BIOS Vendor ID:          SANECHIPS
Model:                    1
BIOS Model name:         ZXIC(R) ZhuFengXin 8167 Processor
Stepping:                 r0p1
CPU max MHz:              3100.0000
CPU min MHz:              800.0000
BogoMIPS:                 250.00
L1d cache:                64K
L1i cache:                64K
L2 cache:                 1024K
L3 cache:                 262144K
NUMA node0 CPU(s):       0-63
NUMA node1 CPU(s):       64-127
NUMA node2 CPU(s):       128-191
NUMA node3 CPU(s):       192-255
Flags:                    fp asimd evtstrm crc32 atomics fphp asimdhp cpuid asimdrdm jscvt fcma lrcpc dcpop
                          asimddp sve asimdfhm dit uscat ilrcpc flagm ssbs sb dcpodp sve2 svebitperm flagm2
                          frint svei8mm svebf16 i8mm bf16 dgh

```

8. numactl --hardware

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

```

available: 4 nodes (0-3)
node 0 cpus: 0-63
node 0 size: 256001 MB
node 0 free: 252499 MB
node 1 cpus: 64-127
node 1 size: 257514 MB
node 1 free: 256662 MB
node 2 cpus: 128-191
node 2 size: 257514 MB
node 2 free: 255813 MB
node 3 cpus: 192-255
node 3 size: 257378 MB
node 3 free: 256387 MB
node distances:
node  0  1  2  3
  0:  10  16  22  22
  1:  16  10  22  22
  2:  22  22  10  16
  3:  22  22  16  10

```

9. /proc/meminfo

MemTotal: 1053091392 kB

10. who -r

run-level 3 Aug 5 08:19

11. Systemd service manager version: systemd 239 (239-69.el8)

```

Default Target  Status
multi-user      running

```

12. Services, from systemctl list-unit-files

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Platform Notes (Continued)

STATE	UNIT FILES
enabled	ModemManager NetworkManager NetworkManager-dispatcher NetworkManager-wait-online accounts-daemon atd auditd avoxt@ avahi-daemon bluetooth crond cups display-manager gdm getty@ import-state irqbalance iscsi iscsi-onboot kdump libstoragemgmt loadmodules lvm2-monitor mdmonitor multipathd nis-domainname nvmeofc-boot-connections ostree-remount qemu-guest-agent rsyslog rtkit-daemon selinux-autorelabel-mark smartd sshd sssd syslog timedatex tuned udisks2 vdo
disabled	arp-ethers blk-availability brltty canberra-system-bootup canberra-system-shutdown canberra-system-shutdown-reboot chrony-wait chronyd cni-dhcp console-getty cpupower cups-browsed debug-shell dnf-system-upgrade dnsmasq ebttables firewalld initial-setup initial-setup-reconfiguration iprump iprint ipupdate iscsid iscsiui0 kpatch kvm_stat ledmon man-db-restart-cache-update ndctl-monitor nftables nvme-autoconnect podman podman-auto-update podman-kube@ podman-restart psacct ras-mc-ctl rasdaemon rdisc speech-dispatcherd sshd-keygen@ switcheroo-control systemd-resolved tcsd upower wpa_supplicant
generated	SystemTap compile-server gcc-toolset-10-stap-server gcc-toolset-10-systemtap gcc-toolset-11-stap-server gcc-toolset-11-systemtap gcc-toolset-9-stap-server gcc-toolset-9-systemtap scripts startup
indirect	serial-getty@ spice-vdagentd sssd-autofs sssd-kcm sssd-nss sssd-pac sssd-pam sssd-ssh sssd-sudo
masked	systemd-timedated

 13. Linux kernel boot-time arguments, from /proc/cmdline
 BOOT_IMAGE=(hd0,gpt2)/vmlinuz-4.18.0-408.el8.aarch64
 root=UUID=79328569-298c-45f2-af56-924299e4920d
 ro
 crashkernel=auto
 skew_tick=1

 14. cpupower frequency-info
 analyzing CPU 0:
 current policy: frequency should be within 800 MHz and 3.10 GHz.
 The governor "performance" may decide which speed to use
 within this range.

 15. tuned-adm active
 No current active profile.

 16. sysctl

kernel.numa_balancing	0
kernel.randomize_va_space	2
vm.compaction_proactiveness	0
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

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Platform Notes (Continued)

```

17. /sys/kernel/mm/transparent_hugepage
   defrag          always defer+advise [madvise] never
   enabled         always madvise [never]
   hpage_pmd_size 536870912
   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          8191
   max_ptes_swap          1024
   pages_to_scan          65536
   scan_sleep_millisecs  10000

```

```

19. OS release
   From /etc/*-release /etc/*-version
   os-release             CentOS Stream 8
   redhat-release         CentOS Stream release 8
   system-release         CentOS Stream release 8

```

```

20. Kernel self-reported vulnerability status, from /sys/devices/system/cpu/vulnerabilities
   itlb_multihit         Not affected
   lltf                   Not affected
   mds                    Not affected
   meltdown              Not affected
   spec_store_bypass     Mitigation: Speculative Store Bypass disabled via prctl
   spectre_v1             Mitigation: __user pointer sanitization
   spectre_v2            Not affected
   srbds                  Not affected
   tsx_async_abort       Not affected

```

For more information, see the Linux documentation on hardware vulnerabilities, for example <https://www.kernel.org/doc/html/latest/admin-guide/hw-vuln/index.html>

```

21. Disk information
SPEC is set to: /home/zfu/speccpu2017/speccpu2017_install
  Filesystem  Type  Size  Used Avail Use% Mounted on
  /dev/sda4   xfs   430G 182G 249G 43% /

```

```

22. /sys/devices/virtual/dmi/id
   Vendor:      ZTE
   Product:     R5310 G3
   Product Family: Server
   Serial:      219537921268

```

```

23. dmidecode
Additional information from dmidecode 3.3 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:
16x Samsung M321R8GA0PB0-CWXXH 64 GB 2 rank 5600

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Platform Notes (Continued)

24. BIOS
(This section combines info from /sys/devices and dmidecode.)
BIOS Vendor: Byosoft
BIOS Version: 31.24.03.00 (SCP:24.03.01.49.02)
BIOS Date: 07/25/2024
BIOS Revision: 31.24
Firmware Revision: 1.49

Compiler Version Notes

C | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)

gcc (GCC) 12.2.0
Copyright (C) 2022 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

C++ | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base) 541.leela_r(base)

g++ (GCC) 12.2.0
Copyright (C) 2022 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Fortran | 548.exchange2_r(base)

GNU Fortran (GCC) 12.2.0
Copyright (C) 2022 Free Software Foundation, Inc.
This is free software; see the source for copying conditions. There is NO
warranty; not even for MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE.

Base Compiler Invocation

C benchmarks:
gcc

C++ benchmarks:
g++

Fortran benchmarks:
gfortran



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Base Portability Flags

```
500.perlbench_r: -DSPEC_LINUX_AARCH64 -DSPEC_LP64
502.gcc_r: -DSPEC_LP64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -DSPEC_LINUX -DSPEC_LP64
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:

```
-mabi=lp64 -std=c99 -L/usr/local/gcc-12.2.0/lib64
-L/usr/local/gcc-12.2.0/lib -L/usr/local/jemalloc-5.2.1_install/lib -g
-O3 -mcpu=neoverse-n1 -march=armv9-a -funroll-loops -flto=32
--param early-inlining-insns=96 --param max-inline-insns-auto=64
--param inline-unit-growth=96 -fno-strict-aliasing
-fno-unsafe-math-optimizations -fno-finite-math-only -fgnu89-inline
-ljemalloc
```

C++ benchmarks:

```
-mabi=lp64 -std=c++03 -L/usr/local/gcc-12.2.0/lib64
-L/usr/local/gcc-12.2.0/lib -L/usr/local/jemalloc-5.2.1_install/lib -g
-O3 -mcpu=neoverse-n1 -march=armv9-a -funroll-loops -flto=32
--param early-inlining-insns=256 --param max-inline-insns-auto=128
--param inline-unit-growth=256 -ffinite-loops -ljemalloc
```

Fortran benchmarks:

```
-mabi=lp64 -L/usr/local/gcc-12.2.0/lib64 -L/usr/local/gcc-12.2.0/lib
-L/usr/local/jemalloc-5.2.1_install/lib -g -O3 -mcpu=neoverse-n1
-march=armv9-a -funroll-loops -flto=32 --param ipa-cp-eval-threshold=1
--param ipa-cp-unit-growth=80 --param ipa-cp-max-recursive-depth=8
-fno-inline-functions-called-once -fstack-arrays -flto-partition=one
-ljemalloc
```

Base Other Flags

C benchmarks:

```
-fcommon -Wl,-Map,mapfile
```

(Continued on next page)



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Base Other Flags (Continued)

C++ benchmarks:

-Wl, -Map, mapfile

Fortran benchmarks:

-Wl, -Map, mapfile

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

<http://www.spec.org/cpu2017/flags/gcc.2021-07-21.html>

<http://www.spec.org/cpu2017/flags/ZTE-Platform-Settings-ZXIC-V1.0.html>

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

<http://www.spec.org/cpu2017/flags/gcc.2021-07-21.xml>

<http://www.spec.org/cpu2017/flags/ZTE-Platform-Settings-ZXIC-V1.0.xml>

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