## SPEC CPU®2017 Integer Rate Result

**Fujitsu**  
PRIMERGY RX1440 M2,  
AMD EPYC 9354P, 3.25 GHz

<table>
<thead>
<tr>
<th>Copies</th>
<th>SPECrate®2017_int_base</th>
<th>SPECrate®2017_int_peak</th>
</tr>
</thead>
<tbody>
<tr>
<td>64</td>
<td>372</td>
<td>Not Run</td>
</tr>
</tbody>
</table>

CPU2017 License: 19  
Test Sponsor: Fujitsu  
Tested by: Fujitsu  
Test Date: Feb-2024  
Hardware Availability: Feb-2024  
Software Availability: Nov-2022

### Hardware

- **CPU Name:** AMD EPYC 9354P  
- **Max MHz:** 3800  
- **Nominal:** 3250  
- **Enabled:** 32 cores, 1 chip, 2 threads/core  
- **Orderable:** 1 chip  
- **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, 32 MB shared / 4 cores  
- **Other:** None  
- **Memory:** 384 GB (12 x 32 GB 2Rx8 PC5-4800B-R)  
- **Storage:** 1 x SATA SSD, 960 GB  
- **Cooling:** Air  

### Software

- **OS:** SUSE Linux Enterprise Server 15 SP4 5.14.21-150400.22-default  
- **Compiler:** C/C++/Fortran: Version 4.0.0 of AOCC  
- **Parallel:** No  
- **Firmware:** Fujitsu BIOS Version Version V5.0.0.27 R1.5.0 for D4130-A1x. Released May-2024  
  tested as V5.0.0.27 R1.4.0 for D4130-A1x Jan-2024  
- **File System:** xfs  
- **System State:** Run level 3 (multi-user)  
- **Base Pointers:** 64-bit  
- **Peak Pointers:** Not Applicable  
- **Power Management:** BIOS set to prefer performance at the cost of additional power usage
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### Results Table

<table>
<thead>
<tr>
<th>Benchmark</th>
<th>Copies</th>
<th>Seconds (Base)</th>
<th>Ratio</th>
<th>Seconds (Peak)</th>
<th>Ratio</th>
<th>Seconds (Base)</th>
<th>Ratio</th>
<th>Seconds (Peak)</th>
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<td>548.exchange2_r</td>
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<td>184</td>
<td>375</td>
<td>184</td>
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<td></td>
</tr>
</tbody>
</table>

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### 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) only on request for base runs,  
'echo madvise > /sys/kernel/mm/transparent_hugepage/enabled' run as root.
Environment Variables Notes

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

LD_LIBRARY_PATH =
"/home/Benchmark/speccpu2017r/amd_rate_aocc400_znver4_A_lib:/home/Benchmark/speccpu2017r/amd_rate_aocc400_znver4_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:
Determinism Slider = Power
TDP Control = Manual
TDP Limit = 300
Package Power Limit Control = Manual
Package Power Limit = 300
DF PState Frequency Optimizer = Enabled
Power Profile Selection = High Performance
NUMA nodes per socket = NPS4
Chipselect Interleaving = Enabled
Probe Filter Organization = Shared
Periodic Directory Rinse (PDR) Tuning = Cache-Bound
Fan Control = Full

Sysinfo program /home/Benchmark/speccpu2017r/bin/sysinfo
Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197
running on localhost Wed Feb 28 23:10:24 2024

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

---
1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpusinfo
7. lscpu
8. numactl --hardware
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline

(Continued on next page)
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SPECRate®2017_int_base = 372
SPECRate®2017_int_peak = Not Run

Test Date: Feb-2024
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Platform Notes (Continued)

14. cpupower frequency-info
15. sysex
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 5.14.21-150400.22-default #1 SMP PREEMPT_DYNAMIC Wed May 11 06:57:18 UTC 2022 (49db222)
   x86_64 x86_64 x86_64 GNU/Linux

2. w
   23:10:24 up 15 min, 1 user, load average: 0.00, 0.00, 0.01
   USER  TTY      FROM             LOGIN@   IDLE   JCPU   PCPU  WHAT
   root   tty1     -                23:09   16.00s  1.18s  0.10s /bin/bash ./amd_rate_aocc400_znver4_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) 1544343
   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) 1544343
   virtual memory          (kbytes, -v) unlimited
   file locks                      (-x) unlimited

5. sysinfo process ancestry
   /usr/lib/systemd/systemd --switched-root --system --deserialize 30
   login -- root
   -bash
   -bash
   python3 ./run_amd_intrate_aocc400_znver4_A1.py
   /bin/bash ./amd_rate_aocc400_znver4_A1.sh
   runcpu --config amd_rate_aocc400_znver4_A1.cfg --tune base --reportable --iterations 3 intrate
   runcpu --configfile amd_rate_aocc400_znver4_A1.cfg --tune base --reportable --iterations 3 --nopower
   --runmode rate --tune base --size test:train:refrate intrate --nopreenv --note-preenv --logfile
   $SPEC/tmp/CPU2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
   specperl1 $SPEC/bin/sysinfo
   $SPEC = /home/Benchmark/speccpu2017r

(Continued on next page)
**Platform Notes (Continued)**

6. **/proc/cpuinfo**
   - **model name**: AMD EPYC 9354P 32-Core Processor
   - **vendor_id**: AuthenticAMD
   - **cpu family**: 25
   - **model**: 17
   - **stepping**: 1
   - **microcode**: 0xa101144
   - **bugs**: sysret_ss_attr attr spectre_v1 spectre_v2 spec_store_bypass
   - **TLB size**: 3584 4K pages
   - **cpu cores**: 32
   - **siblings**: 64
   - 1 physical ids (chips)
   - 64 processors (hardware threads)
   - physical id 0: core ids 0-3, 8-11, 16-19, 24-27, 32-35, 40-43, 48-51, 56-59
   - physical id 0: apic ids 0-7, 16-23, 32-39, 48-55, 64-71, 80-87, 96-103, 112-119
   - Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. **lscpu**
   - **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)**: 64
   - **On-line CPU(s) list**: 0-63
   - **Vendor ID**: AuthenticAMD
   - **Model name**: AMD EPYC 9354P 32-Core Processor
   - **CPU family**: 25
   - **Model**: 17
   - **Thread(s) per core**: 2
   - **Core(s) per socket**: 32
   - **Socket(s)**: 1
   - **Stepping**: 1
   - **Frequency boost**: enabled
   - **CPU max MHz**: 3799.0720
   - **CPU min MHz**: 1500.0000
   - **BogoMIPS**: 6490.55
   - **Flags**: fpu vme de pse tsc msr pae mce cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpe1gb rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid aperfmperf rakr 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 ssxed4 misaligndata 3dnowprefetch osxibs sse vptp wdt tce topoext perfctr_core perfctr_nb bptm perfctr_llc mwattx cpb cat _4 smp
   - **Virtualization**: AMD-V
   - **L1d cache**: 1 MiB (32 instances)
   - **L1i cache**: 1 MiB (32 instances)

*Continued on next page*
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SPECrater®2017_int_base = 372
SPECrater®2017_int_peak = Not Run

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Platform Notes (Continued)

L2 cache: 32 MiB (32 instances)
L3 cache: 256 MiB (8 instances)
NUMA node(s): 4
NUMA node0 CPU(s): 0-7,32-39
NUMA node1 CPU(s): 8-15,40-47
NUMA node2 CPU(s): 16-23,48-55
NUMA node3 CPU(s): 24-31,56-63
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swapsgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Retpolines, IBPB conditional, IBRS_FW, STIBP always-on, RSB filling
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 32K 1M  8 Data   1 64 1  64
L1i 32K 1M  1M Instruction 1 64 1  64
L2  1M 32M 32M 8 Unified  2 2048 1  64
L3 32M 256M 256M 16 Unified 3 32768 1  64

8. numactl --hardware
NOTE: a numactl 'node' might or might not correspond to a physical chip.
available: 4 nodes (0-3)
node 0 cpus: 0-7,32-39
node 0 size: 96192 MB
node 0 free: 95362 MB
node 1 cpus: 8-15,40-47
node 1 size: 96729 MB
node 1 free: 96316 MB
node 2 cpus: 16-23,48-55
node 2 size: 96763 MB
node 2 free: 96381 MB
node 3 cpus: 24-31,56-63
node 3 size: 96424 MB
node 3 free: 95848 MB
node distances:
node 0 1 2 3
0: 10 12 12 12
1: 12 10 12 12
2: 12 12 10 12
3: 12 12 12 10

9. /proc/meminfo
MemTotal: 395376796 kB

10. who -r
run-level 3 Feb 28 22:54

11. Systemd service manager version: systemd 249 (249.11+suse.124.q2bc0b2c447)
Default Target Status
multi-user running

(Continued on next page)
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Platform Notes (Continued)

12. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor audired btuchlet cron display-manager getty@ haveged irqbalance iscsi issue-generator kdbus settings kdump kdump-early klog libvirtd lvm2-monitor nscd postfix purge-kernels rollback rsyslog smtd sshd wicked wickedd-auto4 wickedd-dhcp4 wickedd-dhcp6 wickedd-nanny
enabled-runtime systemd-remount-fs
indirect pcscd virtlockd virtlogd wickedd

---

13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default
root=UUID=46eaef58-8574-42bf-834a-7fe69b4893c9
splash=silent
mitigations=auto
quiet
security=apparmor
kernelfe=272M,high
kernelfe=272M,low

---

14. cpupower frequency-info
analyzing CPU 0:
current policy: frequency should be within 1.50 GHz and 3.25 GHz.
The governor "ondemand" may decide which speed to use
within this range.
boost state support:
Supported: yes
Active: yes

---

15. sysctl
kernel.numa_balance
0
vm.compassion_proactivity
0
vm.dirty_background_bytes
0
vm.dirty_background_ratio
10
vm.dirty_bits
0
vm.dirty_expire_centisecs
3000
vm.min_ratio
8
vm.dirty_expire_centisecs
500
vm.dirty_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

(Continued on next page)
### Platform Notes (Continued)

<table>
<thead>
<tr>
<th>Setting</th>
<th>Value</th>
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</thead>
<tbody>
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<td>vm.swappiness</td>
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<tr>
<td>vm.watermark_boost_factor</td>
<td>15000</td>
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<tr>
<td>vm.watermark_scale_factor</td>
<td>10</td>
</tr>
<tr>
<td>vm.zone_reclaim_mode</td>
<td>1</td>
</tr>
</tbody>
</table>

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 SP4

19. Disk information
   SPEC is set to: /home/Benchmark/speccpu2017r
   - Filesystem | Type | Size | Used | Avail | Use% | Mounted on
   - /dev/sda3 | xfs | 645G | 48G | 598G | 8% | /home

20. /sys/devices/virtual/dmi/id
   - Vendor: FUJITSU
   - Product: PRIMERGY RX1440 M2
   - Product Family: SERVER
   - Serial: xxxxxxxxxx

21. dmidecode
   Additional information from dmidecode 3.2 follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.
   - Memory: 12x Samsung M321R4GA3BB6-CQKEG 32 GB 2 rank 4800

22. BIOS
   (This section combines info from /sys/devices and dmidecode.)
   - BIOS Vendor: FUJITSU // American Megatrends Inc.
   - BIOS Version: V5.0.0.27 R1.4.0 for D4130-Alx
   - BIOS Date: 01/30/2024
   - BIOS Revision: 1.4
   - Firmware Revision: 2.42
Compiler Version Notes

C               | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)
-----------------------------------------------------------------------------------------------
AMD clang version 14.0.6 (CLANG: AOCC_4.0.0-Build#434 2022_10_28) (based on LLVM Mirror.Version.14.0.6)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-4.0.0/bin
-----------------------------------------------------------------------------------------------

C++             | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base) 541.leela_r(base)
-----------------------------------------------------------------------------------------------
AMD clang version 14.0.6 (CLANG: AOCC_4.0.0-Build#434 2022_10_28) (based on LLVM Mirror.Version.14.0.6)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-4.0.0/bin
-----------------------------------------------------------------------------------------------

Fortran          | 548.exchange2_r(base)
-----------------------------------------------------------------------------------------------
AMD clang version 14.0.6 (CLANG: AOCC_4.0.0-Build#434 2022_10_28) (based on LLVM Mirror.Version.14.0.6)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-4.0.0/bin
-----------------------------------------------------------------------------------------------

Base Compiler Invocation

C benchmarks:
clang

C++ benchmarks:
clang++

Fortran benchmarks:
flang

Base Portability Flags

500.perlbench_r: -DSPEC_LINUX_X64 -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

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Base Portability Flags (Continued)
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:
-m64 -flto -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-ldist-scalar-expand -fenable-aggressive-gather
-z muldefs -O3 -march=znver4 -fveclib=AMDLIBM -ffast-math
-fstruct-layout=7 -mllvm -unroll-threshold=50
-mllvm -inline-threshold=1000 -fremap-arrays -fstrip-mining
-mllvm -reduce-array-computations=3 -zopt -lamdlibm -lflang
-lamdalloc

C++ benchmarks:
-m64 -flto -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -z muldefs -O3
-march=znver4 -fveclib=AMDLIBM -ffast-math
-mllvm -reduce-array-computations=3 -zopt
-fvirtual-function-elimination -fvisibility=hidden -lamdlibm -lflang
-lamdalloc-ext

Fortran benchmarks:
-m64 -flto -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3
-Wl,-mllvm -Wl,-inline-recursion=4 -Wl,-mllvm -Wl,-lsr-in-nested-loop
-Wl,-mllvm -Wl,-enable-iv-split -z muldefs -O3 -march=znver4
-fveclib=AMDLIBM -ffast-math -fepilog-vectorization-of-inductions
-mllvm -optimize-strided-mem-cost -floop-transform
-mllvm -unroll-aggressive -mllvm -unroll-threshold=500 -lamdlibm
-lflang -lamdalloc

Base Other Flags

C benchmarks:
-Wno-unused-command-line-argument

C++ benchmarks:
-Wno-unused-command-line-argument

(Continued on next page)
Fujitsu
PRIMERGY RX1440 M2,
AMD EPYC 9354P, 3.25 GHz

SPECrate®2017_int_base = 372
SPECrate®2017_int_peak = Not Run

CPU2017 License: 19
Test Sponsor: Fujitsu
Tested by: Fujitsu

Test Date: Feb-2024
Hardware Availability: Feb-2024
Software Availability: Nov-2022

Base Other Flags (Continued)

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/aocc400-flags.html

You can also download the XML flags sources by saving the following links:
http://www.spec.org/cpu2017/flags/aocc400-flags.xml
http://www.spec.org/cpu2017/flags/Fujitsu-Platform-Settings-V1.0-Genoa-RevD.xml

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For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

Tested with SPEC CPU®2017 v1.1.9 on 2024-02-28 09:10:23-0500.
Originally published on 2024-03-26.