### SPEC CPU®2017 Integer Rate Result

**Fujitsu**

PRIMERGY RX2450 M2, AMD EPYC 9384X, 3.10 GHz

Fujitsu

Test Sponsor: Fujitsu

Tested by: Fujitsu

Test Date: Feb-2024

Hardware Availability: Feb-2024

Software Availability: Nov-2022

### SPECrate®2017_int_base = 804

SPECrate®2017_int_peak = Not Run

<table>
<thead>
<tr>
<th>Specbench</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>500.perlbench_r</td>
<td>584</td>
</tr>
<tr>
<td>502.gcc_r</td>
<td>739</td>
</tr>
<tr>
<td>505.mcf_r</td>
<td>1120</td>
</tr>
<tr>
<td>520.omnetpp_r</td>
<td>457</td>
</tr>
<tr>
<td>523.xalancbmk_r</td>
<td>1150</td>
</tr>
<tr>
<td>525.x264_r</td>
<td>1780</td>
</tr>
<tr>
<td>531.deepsjeng_r</td>
<td>603</td>
</tr>
<tr>
<td>541.leela_r</td>
<td>581</td>
</tr>
<tr>
<td>548.exchange2_r</td>
<td>1670</td>
</tr>
<tr>
<td>557.xz_r</td>
<td>426</td>
</tr>
</tbody>
</table>

### Hardware

**CPU Name:** AMD EPYC 9384X

**Max MHz:** 3900

**Nominal:** 3100

**Enabled:** 64 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:** 768 MB I+D on chip per chip, 96 MB shared / 4 cores

**Other:** None

**Memory:** 768 GB (24 x 32 GB 2Rx8 PC5-4800B-R)

**Storage:** 1 x PCIE NVME SSD, 2 TB

**Other:** 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 D4129-A1x. Released May-2024 tested as V5.0.0.27 R1.4.0 for D4129-A1x Jan-2024

**File System:** xfs

**System State:** Run level 3 (multi-user)

**Base Pointers:** 64-bit

**Peak Pointers:** Not Applicable

**Other:** None

**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</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
<th>Seconds</th>
<th>Ratio</th>
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<tbody>
<tr>
<td>500.perlbench_r</td>
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<td>588</td>
<td>349</td>
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<tr>
<td>505.mcf_r</td>
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<td>1120</td>
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<tr>
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<tr>
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<td>580</td>
<td>364</td>
<td>583</td>
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<tr>
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<tr>
<td>557.xz_r</td>
<td>128</td>
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<td>427</td>
<td>324</td>
<td>426</td>
<td>325</td>
<td>425</td>
</tr>
</tbody>
</table>

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) only on request for base runs,
'echo madvise > /sys/kernel/mm/transparent_hugepage/enable' run as root.
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SPECrate®2017_int_base = 804
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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/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 = 400
Package Power Limit Control = Manual
Package Power Limit = 400
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 Thu Feb 29 22:17:57 2024

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

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7. lscpu
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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

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14. cpupower frequency-info
15. sysctl
16. /sys/kernel/mm/transparent_hugepage
17. /sys/kernel/mm/transparent_hugepage/khugepaged
18. OS release
19. Disk information
20. /sys/devices/virtual/dmi/id
21. dmidecode
22. BIOS

---

1. uname -a
Linux localhost 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
22:17:57 up 11 min,  1 user,  load average: 0.07, 0.08, 0.08
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
root     tty1     -                22:15   13.00s  1.29s  0.12s /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) 3092222
 max locked memory       (kbytes, -l) 2097152
 max memory size         (kbytes, -m) unlimited
 open files                      (-n) 65536
 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) 3092222
 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
--runcpu --tunebase --size test:train:refrate intrate --nopreenv --note-preenv --logfile
$SPEC/tmp/CPUP2017.001/templogs/preenv.intrate.001.0.log --lognum 001.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /home/Benchmark/speccpu2017r

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Platform Notes (Continued)

6. /proc/cpuinfo
   model name      : AMD EPYC 9384X 32-Core Processor
   vendor_id       : AuthenticAMD
   cpu family      : 25
   model           : 17
   stepping        : 2
   microcode       : 0xa101244
   bugs            : sysret_ss_attrs spectre_v1 spectre_v2 spec_store_bypass
   TLB size        : 3584 4K pages
   cpu cores       : 32
   siblings        : 64
   2 physical ids (chips)
   128 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 1: core ids 0-3,8-11,16-19,24-27,32-35,40-43,48-51,56-59
   physical id 0: apicids 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
   From lscpu from util-linux 2.37.2:
   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):                          128
   On-line CPU(s) list:             0-127
   Vendor ID:                       AuthenticAMD
   Model name:                      AMD EPYC 9384X 32-Core Processor
   CPU family:                      25
   Model:                           17
   Thread(s) per core:              2
   Core(s) per socket:              32
   Socket(s):                       2
   Frequency boost:                 enabled
   CPU max MHz:                     3911.3279
   CPU min MHz:                     1500.0000
   BogoMIPS:                        6190.24
   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 mmxt ext fxsr_opt pdpe1gb rdtscp lm
   constant_tsc rep_good nopl nonstop_tsc opm.Level tsc cmov cx8 msr pae mce cx8
   apicperf perf rapl
   pni pclmulqdq monitor ssse3 fma cx16 pcid sse4_1 sse4_2 x2apic movbe
   popcnt aes xsave avx r16c rdrcd lahf_lm cmp_legacy svm extapic cr8 Legacy
   sse4a misalignsse 3dnowprefetch osw ibs skinit wdt tc tco proext
   perfctr_core perfctr_nb bpxet perfctr_l1c mwaitx cpb cat_1 cdg_13
   invpcid_single hw_pstate sbbd mib ibp bpb stibp vmmcall tgsbase hml
   avx2 smep bmi2 erms invpcid cqm rdt_a avx512f avx512dq rdseed adx swap
   avx512fmsa cflushopt clwb avx512cd sha ni avx512bw avx512vl xsaveopt
   xsavexc xgetbr1 xsaves cqm_l1c cqm_occup_l1c cqm_mbb_total cqm_mbb_local
   avx512_bf16 clzero irperf xsaveeerptr rdpru wbnoinvd and_ppin arat npt lbrv
   svm_lock nrip_save tsc_scale vmcb_clean flushbyassist decodeassist
   pausefilter pfthreshold avic v_vmsave vmload vqif v_special avx512vbmi
   umip pku ospe avx512_vbmi2 qfni vaes vpcmuidq avx512_vni avx512_bitalg
   avx512_vpopcntdq 1a57 rpdiid overflow_recover sucore smca fsm flush_l1d
   Virtualization:                  AMD-V

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Fujitsu
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Platform Notes (Continued)

L1d cache: 2 MiB (64 instances)
L1i cache: 2 MiB (64 instances)
L2 cache: 64 MiB (64 instances)
L3 cache: 1.5 GiB (16 instances)
NUMA node(s): 8
NUMA node0 CPU(s): 0-7,64-71
NUMA node1 CPU(s): 8-15,72-79
NUMA node2 CPU(s): 16-23,80-87
NUMA node3 CPU(s): 24-31,88-95
NUMA node4 CPU(s): 32-39,96-103
NUMA node5 CPU(s): 40-47,104-111
NUMA node6 CPU(s): 48-55,112-119
NUMA node7 CPU(s): 56-63,120-127
Vulnerability Itlb multihit: Not affected
Vulnerability L1t: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Spectre v1: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v2: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
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 2M 8 Data 1 64 1 64
L1i 32K 2M 8 Instruction 1 64 1 64
L2 1M 64M 8 Unified 2 2048 1 64
L3 96M 1.5G 16 Unified 3 98304 1 64

8. numactl --hardware

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

available: 8 nodes (0-7)
node 0 cpus: 0-7,64-71
node 0 size: 96185 MB
node 0 free: 94958 MB
node 1 cpus: 8-15,72-79
node 1 size: 96763 MB
node 1 free: 96504 MB
node 2 cpus: 16-23,80-87
node 2 size: 96763 MB
node 2 free: 96499 MB
node 3 cpus: 24-31,88-95
node 3 size: 96763 MB
node 3 free: 96522 MB
node 4 cpus: 32-39,96-103
node 4 size: 96763 MB
node 4 free: 96542 MB
node 5 cpus: 40-47,104-111
node 5 size: 96763 MB
node 5 free: 96527 MB
node 6 cpus: 48-55,112-119
node 6 size: 96729 MB
node 6 free: 96477 MB
node 7 cpus: 56-63,120-127
node 7 size: 96345 MB
node 7 free: 96130 MB
node distances:

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Platform Notes (Continued)

node 0 1 2 3 4 5 6 7
0: 10 12 12 12 32 32 32 32
1: 12 10 12 12 32 32 32 32
2: 12 12 10 12 32 32 32 32
3: 12 12 12 10 32 32 32 32
4: 32 32 32 32 10 12 12 12
5: 32 32 32 32 12 10 12 12
6: 32 32 32 32 12 12 10 12
7: 32 32 32 32 12 12 12 10

---
9. /proc/meminfo
MemTotal: 791633976 kB

---
10. who -r
run-level 3 Feb 29 22:09

---
11. Systemd service manager version: systemd 249 (249.11+suse.124.g2bc0b2c447)
Default Target Status
multi-user running

---
12. Services, from systemctl list-unit-files
STATE UNIT FILES
enabled YaST2-Firstboot YaST2-Second-Stage apparmor auditd bluetooth cron display-manager getty@
heaved irqbalance iscsi issue-generator kbdsettings ldump kdump-early klog lvm2-monitor
ncd nvmefc-boot-connections postfix purge-kernels rollback rsyslog smartd sshd wicked
wickedd-auto4 wickedd-dhcp4 wickedd-dhcpc6 wickedd-nanny
enabled-runtime systemctl-remount-fs
disabled accounts-daemon appstream-sync-cache autofs autoyast-initscripts blk-availability
blueooth-mesh boot-sysctl ca-certificates chrony-wait chronyd console-getty cups
cups-browsed debug-shell ebtables exchange-bmc-os-info firewalld gpm grub2-once
heaved-switch-root hwloc-dump-hdata ipmi ipmihev iccsi-init icsiid icssiuo
issue-add-ssh-keys keexec-load lumarck man-db-create multipathd nfs nfs-bikmap nmb
nvme-azureconnect ostree-remount rdisc rpchbind rmpconfigcheck rsyncd rtkit-daemon
serial-getty@ smartd_generate_opts smb snmpd snmptrapd speech-dispatcher
systemd-boot-check-no-failures systemd-network-generator systemd-sysext
systemd-time-wait-sync systemd-timesyncd udisks2 upower
indirect wicked

---
13. Linux kernel boot-time arguments, from /proc/cmdline
BOOT_IMAGE=/boot/vmlinuz-5.14.21-150400.22-default
root=/UUID=fc0a5636-eee2-42c1-a98a-4213e704cc89
splash=silent
mitigations=auto
quiet
security=apparmor
crashkernel=32M,high
crashkernel=72M,low

---
14. cpupower frequency-info
analyzing CPU 0:
current policy: frequency should be within 1.50 GHz and 3.10 GHz.
The governor "ondemand" may decide which speed to use
within this range.
boost state support:

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

15. **sysctl**
   - kernel.numa_balancing: 1
   - kernel.randomize_va_space: 0
   - vm.compaction_proactiveness: 20
   - vm.dirty_background_bytes: 0
   - vm.dirty_background_ratio: 10
   - vm.dirty_bytes: 0
   - vm.dirty_expire_centisecs: 3000
   - vm.dirty_ratio: 8
   - vm.dirty_writeback_centisecs: 500
   - vm.dirtytime_expire_seconds: 43200
   - vm.extfrag_threshold: 500
   - vm.min_unmapped_ratio: 1
   - vm.nr_hugepages: 0
   - vm.nr_hugepages_mempolicy: 0
   - vm.nr_overcommit_hugepages: 0
   - vm.swappiness: 1
   - vm.watermark_boost_factor: 15000
   - vm.watermark_scale_factor: 10
   - vm.zone_reclaim_mode: 1

16. **/sys/kernel/mm/transparent_hugepage**
   - defrag: [always] defer defer+advise advise never
   - enabled: [always] advise never
   - hpage_pmd_size: 2097152
   - shmem_enabled: always within_size advise [never] deny force

17. **/sys/kernel/mm/transparent_hugepage/hugepaged**
   - 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/nvme0n1p2 xfs 1.9T 100G 1.8T 6% /

20. **/sys/devices/virtual/dmi/id**
    - Vendor: FUJITSU
    - Product: PRIMERGY RX2450 M2
    - Product Family: SERVER
    - Serial: xxxxxxxxxx

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Platform Notes (Continued)

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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:
24x 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 Ri.4.0 for D4129-A1x
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++

(Continued on next page)
**SPEC CPU®2017 Integer Rate Result**

Fujitsu
PRIMERGY RX2450 M2, AMD EPYC 9384X, 3.10 GHz

<table>
<thead>
<tr>
<th>SPECrate®2017_int_base</th>
<th>804</th>
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<tbody>
<tr>
<td>SPECrate®2017_int_peak</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

**Base Compiler Invocation (Continued)**

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
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 -unroll-threshold=100 -finline-aggressive
-mllvm -loop-unswitch-threshold=200000
-mllvm -reduce-array-computations=3 -zopt
-fvirtual-function-elimination -fvisibility=hidden -lamdlibm -flang

Fortran benchmarks:
-m64 -flto -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6

(Continued on next page)
Fujitsu
PRIMERGY RX2450 M2,
AMD EPYC 9384X, 3.10 GHz

SPECrate®2017_int_base = 804
SPECrate®2017_int_peak = Not Run

Base Optimization Flags (Continued)

Fortran benchmarks (continued):
- Wl, -mllvm -Wl, -reduce-array-computations=3
- Wl, -mllvm -Wl, -inline-recursion=4 -Wl, -mllvm -Wl, -lslr-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
- lfiang -lamdalloc

Base Other Flags

C benchmarks:
- 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/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 2024-02-29 08:17:56-0500.
Report generated on 2024-03-27 20:26:01 by CPU2017 PDF formatter v6716.
Originally published on 2024-03-26.