



SPEC CPU®2017 Integer Rate Result

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Dell Inc.

PowerEdge R6625 (AMD EPYC 9374F 32-Core Processor)

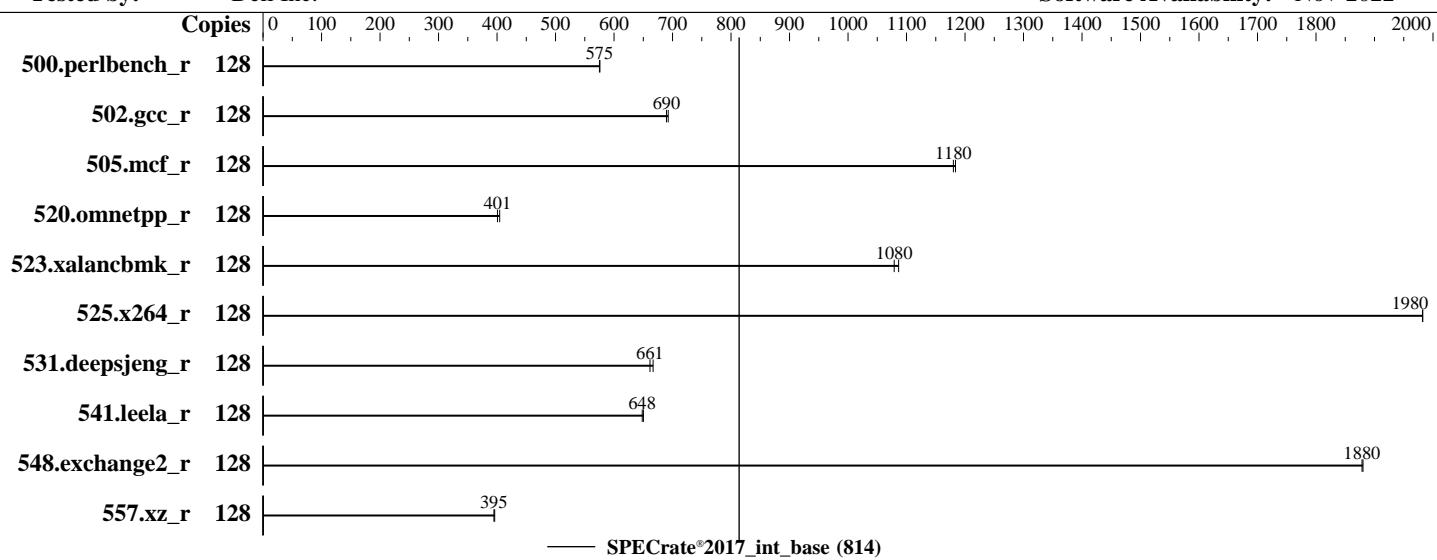
CPU2017 License: 6573

Test Sponsor: Dell Inc.

Tested by: Dell Inc.

SPECrate®2017_int_base = 814

SPECrate®2017_int_peak = Not Run



— SPECrate®2017_int_base (814)

Hardware

CPU Name: AMD EPYC 9374F
Max MHz: 4300
Nominal: 3850
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: 256 MB I+D on chip per chip, 32 MB shared / 4 cores
Other: None
Memory: 1536 GB (24 x 64 GB 2Rx4 PC5-4800B-R)
Storage: 125 GB on tmpfs
Other: None

Software

OS: Ubuntu 22.04.1 LTS
Compiler: 5.15.0-46-generic
Parallel: C/C++/Fortran: Version 4.0.0 of AOCC
Firmware: No
File System: tmpfs
System State: Version 1.1.0 released Nov-2022
Base Pointers: Run level 3 (multi-user)
Peak Pointers: 64-bit
Other: Not Applicable
Power Management: None
BIOS and OS set to prefer performance at the cost of additional power usage.



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Software Availability: Nov-2022

Results Table

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	128	354	575	354	576											
502.gcc_r	128	262	693	263	690											
505.mcf_r	128	175	1180	175	1180											
520.omnetpp_r	128	415	405	419	401											
523.xalancbmk_r	128	125	1080	124	1090											
525.x264_r	128	113	1980	113	1980											
531.deepsjeng_r	128	220	667	222	661											
541.leela_r	128	326	650	327	648											
548.exchange2_r	128	178	1880	179	1880											
557.xz_r	128	349	396	350	395											

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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.

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Operating System Notes (Continued)

To enable Transparent Hugepages (THP) only on request for base runs,
'echo madvise > /sys/kernel/mm/transparent_hugepage/enabled' run as root.
To enable THP for all allocations for peak runs,
'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 =
    "/mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b/amd_rate_aocc400_genoa_B_lib/lib
     :/mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b/amd_rate_aocc400_genoa_B_lib/lib
      32:"
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.

Benchmark run from a 125 GB ramdisk created with the cmd: "mount -t tmpfs -o size=125G tmpfs /mnt/ramdisk"

Platform Notes

BIOS settings:

```
    DRAM Refresh Delay : Performance
    DIMM Self Healing on
    Uncorrectable Memory Error : Disabled
    Virtualization Technology : Disabled
        NUMA Nodes per Socket : 4
    L3 Cache as NUMA Domain : Enabled

    System Profile : Custom
    Memory Patrol Scrub : Disabled
```

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Platform Notes (Continued)

PCI ASPM L1 Link

Power Management : Disabled

Determinism Slider : Power Determinism

Sysinfo program /mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
running on amd-sut Mon Dec 12 19:42:04 2022

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

For more information on this section, see

<https://www.spec.org/cpu2017/Docs/config.html#sysinfo>

From /proc/cpuinfo

```
model name : AMD EPYC 9374F 32-Core Processor
  2 "physical id"s (chips)
  128 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The following
excerpts from /proc/cpuinfo might not be reliable. Use with caution.)
  cpu cores : 32
  siblings : 64
  physical 0: cores 0 1 2 3 8 9 10 11 16 17 18 19 24 25 26 27 32 33 34 35 40 41 42 43
  48 49 50 51 56 57 58 59
  physical 1: cores 0 1 2 3 8 9 10 11 16 17 18 19 24 25 26 27 32 33 34 35 40 41 42 43
  48 49 50 51 56 57 58 59
```

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 9374F 32-Core Processor
CPU family:	25
Model:	17
Thread(s) per core:	2
Core(s) per socket:	32
Socket(s):	2
Stepping:	1
Frequency boost:	enabled
CPU max MHz:	4306.0000
CPU min MHz:	400.0000
BogoMIPS:	7702.25
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 nopl nonstop_tsc cpuid extd_apicid

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Platform Notes (Continued)

```

aperfmpfperf rapl pnpi 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 osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb
bpext perfctr_llc mwaitx cpb cat_l3 cdp_l3 invpcid_single hw_pstate ssbd mba ibrs
ibpb stibp vmmcall fsgsbase bmil avx2 smep bmi2 erms invpcid cqmq rdt_a avx512f
avx512dq rdseed adx smap avx512ifma clflushopt clwb avx512cd sha_ni avx512bw
avx512vl xsaveopt xsavec xgetbv1 xsaves cqmq_llc cqmq_occup_llc cqmq_mbm_total
cqmq_mbm_local avx512_bf16 clzero irperf xsaveerptr rdpru wbnoinvd amd_ppin cppc arat
npt lbrv svm_lock nrip_save tsc_scale vmcb_clean flushbyasid decodeassists
pausefilter pfthreshold avic v_vmsave_vmload vgif v_spec_ctrl avx512vbmi umip pku
ospke avx512_vbmi2 gfni vaes vpclmulqdq avx512_vnni avx512_bitalg avx512_vpopcntdq
la57 rdpid overflow_recov succor smca fsrm flush_ll1d
Virtualization: AMD-V
L1d cache: 2 MiB (64 instances)
L1i cache: 2 MiB (64 instances)
L2 cache: 64 MiB (64 instances)
L3 cache: 512 MiB (16 instances)
NUMA node(s): 16
NUMA node0 CPU(s): 0-3,64-67
NUMA node1 CPU(s): 16-19,80-83
NUMA node2 CPU(s): 8-11,72-75
NUMA node3 CPU(s): 24-27,88-91
NUMA node4 CPU(s): 12-15,76-79
NUMA node5 CPU(s): 28-31,92-95
NUMA node6 CPU(s): 4-7,68-71
NUMA node7 CPU(s): 20-23,84-87
NUMA node8 CPU(s): 32-35,96-99
NUMA node9 CPU(s): 48-51,112-115
NUMA node10 CPU(s): 40-43,104-107
NUMA node11 CPU(s): 56-59,120-123
NUMA node12 CPU(s): 44-47,108-111
NUMA node13 CPU(s): 60-63,124-127
NUMA node14 CPU(s): 36-39,100-103
NUMA node15 CPU(s): 52-55,116-119
Vulnerability Itlb multihit: Not affected
Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via
prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swaps barriers and __user
pointer sanitization
Vulnerability Spectre v2: Mitigation; Retpolines, IBPB conditional, IBRS_FW,
STIBP always-on, RSB filling
Vulnerability Srbds: Not affected

```

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Platform Notes (Continued)

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	32M	512M	16	Unified	3	32768	1	64

/proc/cpuinfo cache data
cache size : 1024 KB

From numactl --hardware

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

```
available: 16 nodes (0-15)
node 0 cpus: 0 1 2 3 64 65 66 67
node 0 size: 96312 MB
node 0 free: 96077 MB
node 1 cpus: 16 17 18 19 80 81 82 83
node 1 size: 96764 MB
node 1 free: 96561 MB
node 2 cpus: 8 9 10 11 72 73 74 75
node 2 size: 96765 MB
node 2 free: 96578 MB
node 3 cpus: 24 25 26 27 88 89 90 91
node 3 size: 96764 MB
node 3 free: 96612 MB
node 4 cpus: 12 13 14 15 76 77 78 79
node 4 size: 96765 MB
node 4 free: 96614 MB
node 5 cpus: 28 29 30 31 92 93 94 95
node 5 size: 96764 MB
node 5 free: 96591 MB
node 6 cpus: 4 5 6 7 68 69 70 71
node 6 size: 96765 MB
node 6 free: 96613 MB
node 7 cpus: 20 21 22 23 84 85 86 87
node 7 size: 96748 MB
node 7 free: 96578 MB
node 8 cpus: 32 33 34 35 96 97 98 99
node 8 size: 96765 MB
node 8 free: 96602 MB
node 9 cpus: 48 49 50 51 112 113 114 115
node 9 size: 96764 MB
node 9 free: 96594 MB
node 10 cpus: 40 41 42 43 104 105 106 107
node 10 size: 96765 MB
```

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Platform Notes (Continued)

```
node 10 free: 96603 MB
node 11 cpus: 56 57 58 59 120 121 122 123
node 11 size: 96764 MB
node 11 free: 93061 MB
node 12 cpus: 44 45 46 47 108 109 110 111
node 12 size: 96765 MB
node 12 free: 96591 MB
node 13 cpus: 60 61 62 63 124 125 126 127
node 13 size: 96729 MB
node 13 free: 96580 MB
node 14 cpus: 36 37 38 39 100 101 102 103
node 14 size: 96765 MB
node 14 free: 96618 MB
node 15 cpus: 52 53 54 55 116 117 118 119
node 15 size: 96739 MB
node 15 free: 96592 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
 11: 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  12  12  12  12  10  11  12  12
 13: 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  12  12  12  12  12  12  10  11
 15: 32  32  32  32  32  32  32  32  12  12  12  12  12  12  11  10
```

From /proc/meminfo

```
MemTotal:      1584861016 kB
HugePages_Total:      0
Hugepagesize:     2048 kB
```

/sbin/tuned-adm active
Current active profile: latency-performance

/sys/devices/system/cpu/cpu*/cpufreq/scaling_governor has
performance

/usr/bin/lsb_release -d

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Platform Notes (Continued)

Ubuntu 22.04.1 LTS

```
From /etc/*release* /etc/*version*
debian_version: bookworm/sid
os-release:
  PRETTY_NAME="Ubuntu 22.04.1 LTS"
  NAME="Ubuntu"
  VERSION_ID="22.04"
  VERSION="22.04.1 LTS (Jammy Jellyfish)"
  VERSION_CODENAME=jammy
  ID=ubuntu
  ID_LIKE=debian
  HOME_URL="https://www.ubuntu.com/"
```

uname -a:

```
Linux amd-sut 5.15.0-46-generic #49-Ubuntu SMP Thu Aug 4 18:03:25 UTC 2022 x86_64
x86_64 x86_64 GNU/Linux
```

Kernel self-reported vulnerability status:

CVE-2018-12207 (iTLB Multihit):	Not affected
CVE-2018-3620 (L1 Terminal Fault):	Not affected
Microarchitectural Data Sampling:	Not affected
CVE-2017-5754 (Meltdown):	Not affected
mmio_stale_data:	Not affected
retbleed:	Not affected
CVE-2018-3639 (Speculative Store Bypass):	Mitigation: Speculative Store Bypass disabled via prctl and seccomp
CVE-2017-5753 (Spectre variant 1):	Mitigation: usercopy/swapgs barriers and __user pointer sanitization
CVE-2017-5715 (Spectre variant 2):	Mitigation: Retpolines, IBPB: conditional, IBRS_FW, STIBP: always-on, RSB filling
CVE-2020-0543 (Special Register Buffer Data Sampling):	Not affected
CVE-2019-11135 (TSX Asynchronous Abort):	Not affected

run-level 3 Dec 12 19:41

```
SPEC is set to: /mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b
Filesystem      Type   Size  Used Avail Use% Mounted on
tmpfs           tmpfs  125G  3.4G  122G   3% /mnt/ramdisk
```

```
From /sys/devices/virtual/dmi/id
Vendor:          Dell Inc.
Product:         PowerEdge R6625
```

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Platform Notes (Continued)

Product Family: PowerEdge

Serial: BGP4023

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:

24x 80CE000080CE M321R8GA0BB0-CQKDG 64 GB 2 rank 4800

BIOS:

BIOS Vendor: Dell Inc.
BIOS Version: 1.1.0
BIOS Date: 11/25/2022
BIOS Revision: 1.1

(End of data from sysinfo program)

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#389 2022_10_07) (based on
LLVM Mirror.Version.14.0.6)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-4.0-3206-389/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#389 2022_10_07) (based on
LLVM Mirror.Version.14.0.6)

Target: x86_64-unknown-linux-gnu

Thread model: posix

InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-4.0-3206-389/bin

=====

=====

Fortran | 548.exchange2_r(base)

=====

AMD clang version 14.0.6 (CLANG: AOCC_4.0.0-Build#389 2022_10_07) (based on

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Compiler Version Notes (Continued)

LLVM Mirror.Version.14.0.6)
Target : x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /opt/AMD/aocc/aocc-compiler-rel-4.0-3206-389/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
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-m64 -fno -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 -fvecelib=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
-lamdaloc

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Base Optimization Flags (Continued)

C++ benchmarks:

```
-m64 -fno -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 -lflang  
-lamdalloc-ext
```

Fortran benchmarks:

```
-m64 -fno -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
```

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>

<http://www.spec.org/cpu2017/flags/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.0.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/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.0.xml>



SPEC CPU®2017 Integer Rate Result

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Dell Inc.

PowerEdge R6625 (AMD EPYC 9374F 32-Core Processor)

SPECrate®2017_int_base = 814

SPECrate®2017_int_peak = Not Run

CPU2017 License: 6573

Test Sponsor: Dell Inc.

Tested by: Dell Inc.

Test Date: Dec-2022

Hardware Availability: Feb-2023

Software Availability: Nov-2022

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

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