Dell Inc.  
PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)  

SPECspeed\textsuperscript{2017\_fp\_base} = 259  
SPECspeed\textsuperscript{2017\_fp\_peak} = 265

<table>
<thead>
<tr>
<th>Threads</th>
<th>SPECspeed\textsuperscript{2017_fp_base} (259)</th>
<th>SPECspeed\textsuperscript{2017_fp_peak} (265)</th>
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<tbody>
<tr>
<td>603.bwaves_s 32</td>
<td>356</td>
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<tr>
<td>607.cactuBSSN_s 32</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>619.lbm_s 32</td>
<td>183</td>
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<tr>
<td>621.wrf_s 32</td>
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<td>627.cam4_s 32</td>
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<td>628.pop2_s 32</td>
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<tr>
<td>638.imagick_s 32</td>
<td>259</td>
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<tr>
<td>644.nab_s 32</td>
<td>260</td>
<td></td>
</tr>
<tr>
<td>649.fotonik3d_s 32</td>
<td>217</td>
<td></td>
</tr>
<tr>
<td>654.roms_s 32</td>
<td>416</td>
<td></td>
</tr>
</tbody>
</table>

**Hardware**

- **CPU Name:** AMD EPYC 9174F
- **Max MHz:** 4400
- **Nominal:** 4100
- **Enabled:** 32 cores, 2 chips
- **Orderable:** 1.2 chips
- **Cache L1:** 32 KB I + 32 KB D on chip per core
- **Cache L2:** 1 MB I+D on chip per core
- **Cache L3:** 256 MB I+D on chip per chip, 32 MB shared / 2 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:** Yes
- **Firmware:** Version 1.0.2 released Oct-2022
- **File System:** tmpfs
- **System State:** Run level 3 (multi-user)
- **Base Pointers:** 64-bit
- **Peak Pointers:** 64-bit
- **Other:** None
- **Power Management:** BIOS and OS set to prefer performance at the cost of additional power usage.
Dell Inc. (AMD EPYC 9174F 16-Core Processor)

**CPU2017 License:**
Dell Inc.

**Test Sponsor:**
Dell Inc.

**Test Date:**
Oct-2022

**Hardware Availability:**
Feb-2023

**Tested by:**
Dell Inc.

**Software Availability:**
Nov-2022

---

## Results Table

<table>
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<tr>
<td>638.imagick_s</td>
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<td></td>
</tr>
</tbody>
</table>

**SPECspeed®2017_fp_base = 259**

**SPECspeed®2017_fp_peak = 265**

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

---

## Compiler Notes


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## 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.

(Continued on next page)
Operating System Notes (Continued)

To enable Transparent Hugepages (THP) for all allocations,
'echo always > /sys/kernel/mm/transparent_hugepage/defrag' run as root.
To always enable THP for peak runs of:
603.bwaves_s, 607.cactuBSSN_s, 619.lbm_s, 627.cam4_s, 628.pop2_s, 638.imagick_s, 644.nab_s, 649.fotonik3d_s:
'echo madvise > /sys/kernel/mm/transparent_hugepage/defrag' run as root.
To disable THP for peak runs of 621.wrf_s:
'echo never > /sys/kernel/mm/transparent_hugepage/defrag' run as root.
To enable THP only on request for peak runs of 654.roms_s:
'echo madvise > /sys/kernel/mm/transparent_hugepage/defrag' run as root.

Environment Variables Notes

Environment variables set by runcpu before the start of the run:
GOMP_CPU_AFFINITY = "0-31"
LD_LIBRARY_PATH =
"/mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b/amd_speed_aocc400_genoa_B_lib/libb:
LIBOMP_NUM_HIDDEN_HELPER_THREADS = "0"
MALLOCONF = "oversize_threshold:0,retain:true"
OMP_DYNAMIC = "false"
OMP_SCHEDULE = "static"
OMP_STACKSIZE = "128M"
OMP_THREAD_LIMIT = "32"

Environment variables set by runcpu during the 603.bwaves_s peak run:
GOMP_CPU_AFFINITY = "0-31"

Environment variables set by runcpu during the 621.wrf_s peak run:
GOMP_CPU_AFFINITY = "0-31"

Environment variables set by runcpu during the 628.pop2_s peak run:
GOMP_CPU_AFFINITY = "0-31"

Environment variables set by runcpu during the 638.imagick_s peak run:
GOMP_CPU_AFFINITY = "0-31"

Environment variables set by runcpu during the 654.roms_s peak run:
GOMP_CPU_AFFINITY = "0 16 1 17 2 18 3 19 4 20 5 21 6 22 7 23 8 24 9 25 10 26
11 27 12 28 13 29 14 30 15 31"
Dell Inc.

PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

SPECspeed®2017_fp_base = 259
SPECspeed®2017_fp_peak = 265

CPU2017 License: 6573
Test Sponsor: Dell Inc.
Tested by: Dell Inc.

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
- Logical Processor: Disabled
- Virtualization Technology: Disabled
- L3 Cache as NUMA Domain: Enabled

- System Profile: Custom
- C-States: Disabled
- Memory Patrol Scrub: Disabled
- PCI ASPM L1 Link
- Power Management: Disabled
- Determinism Slider: Power Determinism
- Algorithm Performance
- Boost Disable (ApbDis): Enabled

Sysinfo program /mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b/bin/sysinfo
Rev: r6622 of 2021-04-07 982a61ec0915b55891ef0e16acafc64d
running on amd-sut Sun Oct 30 20:34:56 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 9174F 16-Core Processor
  2 "physical id"s (chips)
  32 "processors"
cores, siblings (Caution: counting these is hw and system dependent. The following excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

(Continued on next page)
**Dell Inc.**

**PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)**

**CPU2017 License:** 6573

**Test Sponsor:** Dell Inc.

**Tested by:** Dell Inc.

**Test Date:** Oct-2022

**Hardware Availability:** Feb-2023

**Software Availability:** Nov-2022

---

**SPEC CPU®2017 Floating Point Speed Result**

**SPECspeed®2017_fp_base = 259**

**SPECspeed®2017_fp_peak = 265**

---

**Platform Notes (Continued)**

```
cpu cores : 16
siblings : 16
physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15
physical 1: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

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): 32
On-line CPU(s) list: 0-31
Vendor ID: AuthenticAMD
Model name: AMD EPYC 9174F 16-Core Processor
CPU family: 25
Model: 17
Thread(s) per core: 1
Core(s) per socket: 16
Socket(s): 2
Stepping: 1
Frequency boost: enabled
CPU max MHz: 4409.000
CPU min MHz: 400.0000
BogoMIPS: 8202.55
Flavors: fpu vme de pse tsc msr pae mce cx8 apic sep mtrr
flags pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr opt
```

---

(Continued on next page)
Dell Inc. PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor) SPECspeed®2017_fp_base = 259
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CPU2017 License: 6573
Test Sponsor: Dell Inc.
Test Date: Oct-2022
Tested by: Dell Inc.
Hardware Availability: Feb-2023
Software Availability: Nov-2022

Platform Notes (Continued)

NUMA node2 CPU(s): 4,5
NUMA node3 CPU(s): 12,13
NUMA node4 CPU(s): 6,7
NUMA node5 CPU(s): 14,15
NUMA node6 CPU(s): 2,3
NUMA node7 CPU(s): 10,11
NUMA node8 CPU(s): 16,17
NUMA node9 CPU(s): 24,25
NUMA node10 CPU(s): 20,21
NUMA node11 CPU(s): 28,29
NUMA node12 CPU(s): 22,23
NUMA node13 CPU(s): 30,31
NUMA node14 CPU(s): 18,19
NUMA node15 CPU(s): 26,27
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/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Retpolines, IBPB conditional, IBRS_FW, STIBP disabled, 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 1M 8 Data 1 64 1 64
L1i 32K 1M 8 Instruction 1 64 1 64
L2 1M 32M 8 Unified 2 2048 1 64
L3 32M 512M 16 Unified 3 32768 1 64

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
node 0 size: 96277 MB
node 0 free: 95947 MB
node 1 cpus: 8 9
node 1 size: 96767 MB

(Continued on next page)
## Dell Inc. PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

<table>
<thead>
<tr>
<th>SPECspeed®2017_fp_base</th>
<th>259</th>
</tr>
</thead>
<tbody>
<tr>
<td>SPECspeed®2017_fp_peak</td>
<td>265</td>
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**CPU2017 License:** 6573  
**Test Sponsor:** Dell Inc.  
**Tested by:** Dell Inc.

**Test Date:** Oct-2022  
**Hardware Availability:** Feb-2023  
**Software Availability:** Nov-2022

### Platform Notes (Continued)

<table>
<thead>
<tr>
<th>Platform Notes (Continued)</th>
</tr>
</thead>
<tbody>
<tr>
<td>node 1 free: 96346 MB</td>
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<tr>
<td>node 2 cpus: 4 5</td>
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<td>node 2 size: 96767 MB</td>
</tr>
<tr>
<td>node 2 free: 96231 MB</td>
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<tr>
<td>node 3 cpus: 12 13</td>
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<td>node 3 size: 96767 MB</td>
</tr>
<tr>
<td>node 3 free: 96460 MB</td>
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<td>node 4 cpus: 6 7</td>
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<tr>
<td>node 15 size: 96767 MB</td>
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<td>node 15 free: 96554 MB</td>
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<table>
<thead>
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<tr>
<td>node 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15</td>
</tr>
<tr>
<td>0: 10 11 11 11 11 11 11 11 32 32 32 32 32 32 32</td>
</tr>
<tr>
<td>1: 11 10 11 11 11 11 11 11 32 32 32 32 32 32 32</td>
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</table>

(Continued on next page)
Dell Inc. PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

SPECspeed®2017_fp_base = 259
SPECspeed®2017_fp_peak = 265

CPU2017 License: 6573
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Platform Notes (Continued)

5:  11  11  11  11  11  10  11  32  32  32  32  32  32  32  32

From /proc/meminfo
MemTotal:       1584888456 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
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:

(Continued on next page)
SPEC CPU®2017 Floating Point Speed Result

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Platform Notes (Continued)

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/swaps barriers and __user pointer sanitation
CVE-2017-5715 (Spectre variant 2): Mitigation: Retpolines, IBPB: conditional, IBRS_FW, STIBP: disabled, RSB filling
CVE-2020-0543 (Special Register Buffer Data Sampling): Not affected
CVE-2019-11135 (TSX Asynchronous Abort): Not affected

run-level 3 Oct 30 18:34
SPEC is set to: /mnt/ramdisk/cpu2017-1.1.8-aocc400-B1b

Memory:
24x 80AD000080AD HMCG94MEBRA109N 64 GB 2 rank 4800

BIOS:
BIOS Vendor: Dell Inc.
BIOS Version: 1.0.2
BIOS Date: 10/17/2022
BIOS Revision: 1.0

(End of data from sysinfo program)
SPEC CPU®2017 Floating Point Speed Result

Dell Inc.

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Compiler Version Notes

C               | 619.lbm_s(base, peak) 638.imagick_s(base, peak)
| 644.nab_s(base, peak)
------------------------------------------------------------------------------
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++, C, Fortran | 607.cactuBSSN_s(base, peak)
------------------------------------------------------------------------------
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
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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         | 603.bwaves_s(base, peak) 649.fotonik3d_s(base, peak)
| 654.roms_s(base, peak)
------------------------------------------------------------------------------
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, C      | 621.wrf_s(base, peak) 627.cam4_s(base, peak)
| 628.pop2_s(base, peak)
------------------------------------------------------------------------------
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
------------------------------------------------------------------------------

(Continued on next page)
Dell Inc. PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

| SPECspeed®2017_fp_base = 259 |
| SPECspeed®2017_fp_peak = 265 |

CPU2017 License: 6573
Test Sponsor: Dell Inc.
Tested by: Dell Inc.

Base Compiler Invocation

C benchmarks:
clang

Fortran benchmarks:
flang

Benchmarks using both Fortran and C:
flang clang

Benchmarks using Fortran, C, and C++:
clang++ clang flang

Base Portability Flags

603.bwaves_s: -DSPEC_LP64
607.cactuBSSN_s: -DSPEC_LP64
619.lbm_s: -DSPEC_LP64
621.wrf_s: -DSPEC_CASE_FLAG -Mbyteswapio -DSPEC_LP64
627.cam4_s: -DSPEC_CASE_FLAG -DSPEC_LP64
628.pop2_s: -DSPEC_CASE_FLAG -Mbyteswapio -DSPEC_LP64
638.imagick_s: -DSPEC_LP64
644.nab_s: -DSPEC_LP64
649.fotonik3d_s: -DSPEC_LP64
654.roms_s: -DSPEC_LP64

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
AMD clang version 14.0.6 (CLANG: AOCC_4.0.0-Build#389 2022_10_07) (based on
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Thread model: posix
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Test Date: Oct-2022
Hardware Availability: Feb-2023
Software Availability: Nov-2022
### Dell Inc. PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

<table>
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<tr>
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</tbody>
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**Base Optimization Flags**

C benchmarks:

Fortran benchmarks:

Benchmarks using both Fortran and C:

Benchmarks using Fortran, C, and C++:
Dell Inc.  
PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)  

| SPECspeed®2017_fp_base = 259 |
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**CPU2017 License**: 6573  
**Test Date**: Oct-2022  
**Test Sponsor**: Dell Inc.  
**Hardware Availability**: Feb-2023  
**Tested by**: Dell Inc.  
**Software Availability**: Nov-2022

### Base Other Flags

C benchmarks:
- `-Wno-return-type -Wno-unused-command-line-argument`

Fortran benchmarks:
- `-Wno-unused-command-line-argument`

Benchmarks using both Fortran and C:
- `-Wno-return-type -Wno-unused-command-line-argument`

Benchmarks using Fortran, C, and C++:
- `-Wno-return-type -Wno-unused-command-line-argument`

### Peak Compiler Invocation

C benchmarks:
```
clang
```

Fortran benchmarks:
```
flang
```

Benchmarks using both Fortran and C:
```
flang clang
```

Benchmarks using Fortran, C, and C++:
```
clang++ clang flang
```

### Peak Portability Flags

Same as Base Portability Flags

### Peak Optimization Flags

C benchmarks:
```
619.lbm_s: basepeak = yes
```

```
638.imagick_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
-Wl,-mllvm -Wl,-reduce-array-computations=3 -Ofast
-mar=znver4 -fveclib=AMDLIBM -ffast-math -fopenmp
-flto -fstruct-layout=9 -mllvm -unroll-threshold=50
```

(Continued on next page)
### Dell Inc.

**PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)**

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**CPU2017 License:** 6573

**Tested by:** Dell Inc.

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**Peak Optimization Flags (Continued)**

638.imagick_s (continued):
- fremap-arrays -fstrip-mining
- mllvm -inline-threshold=1000
- mllvm -reduce-array-computations=3 -DSPEC_OPENMP -zopt
- fopenmp=libomp -lomp -lamdlibm -lamdalloc -lflang

644.nab_s: basepeak = yes

**Fortran benchmarks:**

603.bwaves_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
- Wl,-mllvm -Wl,-reduce-array-computations=3
- Wl,-mllvm -Wl,-enable-X86-prefetching -DSPEC_OPENMP
- Ofast -march=znver4 -fveclib=AMDLIBM -ffast-math
- fopenmp -Mrecursive -mllvm -reduce-array-computations=3
- fvector-transform -fscalar-transform - fopenmp=libomp
- lomp -lamdlibm -lamdalloc -lflang

649.fotonik3d_s: basepeak = yes

654.roms_s: Same as 603.bwaves_s

**Benchmarks using both Fortran and C:**

621.wrf_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
- Wl,-mllvm -Wl,-reduce-array-computations=3
- Wl,-mllvm -Wl,-enable-X86-prefetching -Ofast
- march=znver4 -fveclib=AMDLIBM -ffast-math - fopenmp
- fto -fstruct-layout=9 -mllvm -unroll-threshold=50
- fremap-arrays -fstrip-mining
- mllvm -inline-threshold=1000
- mllvm -reduce-array-computations=3 -DSPEC_OPENMP -zopt
- O3 -Mrecursive -funroll-loops -mllvm -1sr-in-nested-loop
- fopenmp=libomp -lomp -lamdlibm -lamdalloc -lflang

627.cam4_s: basepeak = yes

628.pop2_s: -m64 -Wl,-mllvm -Wl,-align-all-nofallthru-blocks=6
- Wl,-mllvm -Wl,-reduce-array-computations=3
- Wl,-mllvm -Wl,-enable-X86-prefetching -Ofast
- march=znver4 -fveclib=AMDLIBM -ffast-math - fopenmp
- fto -fstruct-layout=9 -mllvm -unroll-threshold=50
- fremap-arrays -fstrip-mining
- mllvm -inline-threshold=1000
- mllvm -reduce-array-computations=3 -DSPEC_OPENMP -zopt
- -Mrecursive -fvector-transform -fscalar-transform

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Dell Inc.

PowerEdge R7625 (AMD EPYC 9174F 16-Core Processor)

SPECspeed\textsuperscript{\textregistered}2017\_fp\_base = 259
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Peak Optimization Flags (Continued)

628.pop2_s (continued):
-\texttt{fopenmp=libomp -lomp -lamdlibm -lamdalloc -lflang}

Benchmarks using Fortran, C, and C++:
607.cactuBSSN_s: basepeak = yes

Peak Other Flags

C benchmarks:
-\texttt{-Wno-return-type -Wno-unused-command-line-argument}

Fortran benchmarks:
-\texttt{-Wno-unused-command-line-argument}

Benchmarks using both Fortran and C:
-\texttt{-Wno-return-type -Wno-unused-command-line-argument}

Benchmarks using Fortran, C, and C++:
-\texttt{-Wno-return-type -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/Dell-Platform-Flags-PowerEdge-AMD-EPYC-v1.0.xml

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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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