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## My Corporation

SPECrate $^{\circ}2017$ \_fp\_base  $\Rightarrow$  0.00

SPECrate®2017\_fp\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

**Test Sponsor:** My Corporation **Tested by:** My Corporation

Test Date: Jun-2024

Hardware Availability: Software Availability:

### **Errors** (Continued)

549.fotonik3d\_r (base) did not have enough runs!

503.bwaves\_r (base) did not have enough runs!

510.parest\_r (base) did not have enough runs!

554.roms\_r (base) did not have enough runs!

508.namd\_r (base) did not have enough runs!

544.nab\_r (base) did not have enough runs!

527.cam4\_r (base) did not have enough runs!

507.cactuBSSN\_r (base) did not have enough runs!

538.imagick\_r (base) had invalid runs!

511.povray\_r (base) had invalid runs!

519.lbm r (base) had invalid runs!

510.parest\_r (base) had invalid runs!

508.namd\_r (base) had invalid runs!

544.nab r (base) had invalid runs!

Run of 508.namd\_r (base) was not valid; status is RE

Run of 510.parest\_r (base) was not yand; status is RE

Run of 511.povray\_r (base) was not valid; status is RE

Run of 519.lbm\_r (base) was not valid; status is RE

Run of 538.imagick\_r (base) was not valid; status is RE

Run of 544.nab\_r (base) was not valid; status is RE

Unknown flags were used! See

https://www.spec.org/cpu2017/Docs/runcpu.html#flagsurl

for information about how to get rid of this error.

### **Results Table**

	Base							Peak								
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio		
503.bwaves_r		<b>,</b>														
507_cactuBSSN_r																
508.namd_r	$\sqrt{1}$	0.000365	0.00													
510.parest_r	1	0.000366	0.00													
511.povray_r	1	0.000369	0.00													
519.lbm_r //	1	0.000362	0.00													
521.wrf_r																
526.blender_r																
527.cam4_r																
538.imagick_r	1	0.000393	0.00													
544.nab_r	1	0.000362	0.00													

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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#### **Results Table (Continued)**

	Base								<b>P</b> eak								
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	S	eson	ıds	Ratio	Seconds	Ratio	Seconds	Ratio	
549.fotonik3d_r												7					
554.roms_r						$\wedge$						/					

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

#### **Environment Variables Notes**

Environment variables set by runcpu before the start of the run: LD\_LIBRARY\_PATH = "/usr/lib64/:/usr/lib/:/lb64"

#### Platform Notes

```
Sysinfo program /mnt/seconddrive/Code/seguecg-root/segue-lfi/spec2017/bin/sysinfo
Rev: r6365 of 2019-08-21 29518588833/edble6e46a485a0011
running on shr-work Tue Jum 11 23:37 36 2024

SUT (System Under Test) info as seen by some common utilities.
For more information on this section, see
   https://www.apec.org/cpu2017/Docs/config.html#sysinfo

From /proc/cpuinfo
   model name : 13th Gen Intel(R) Core(TM) i9-13900KS
   1 "physical id"s (chips)
   24 "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 : 24
   siblings 24
   physical 0: cores 0 4 8 12 16 20 24 28 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46
```

#### From lscpu/

Architecture: x86\_64

CPF op-mode(s): 32-bit, 64-bit

Address sizes: 46 bits physical, 48 bits virtual

Byte Order: Little Endian

CPU(s): 32

On-line CPU(s) list: 0,2,4,6,8,10,12,14,16-31

Off-line CPU(s) list: 1,3,5,7,9,11,13,15

Vendor ID: GenuineIntel

Model name: 13th Gen Intel(R) Core(TM) i9-13900KS

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#### Platform Notes (Continued)

```
CPU family:
                                       183
Model:
Thread(s) per core:
                                       1
Core(s) per socket:
Socket(s):
Stepping:
                                       6000.0000
CPU max MHz:
CPU min MHz:
                                       0.000
                                       6374.40
BogoMIPS:
```

fpu vme de pse tsc msr pae mce cx8 apic sep mtrr Flags: pge mca cmov pat pse36 clfTush dts appi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpelgb rdtscp lm constant\_tsc/art arch\_perfmon pebs bts rep\_good nopl xtopology nonstop\_tsc cpuid aperfimerf the known\_freq phi pclmulqdq dtes64 monitor ds\_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16g rdrand lahf\_lm abm 3dnowprefetch cpuid\_fault ssbd ibrs ibpb stibp ibrs\_enhanced tpr\_shadow flexpriority ept vpid ept\_ad fsgsbase tsc\_adjust bmil avx2 smep bmi2 erms invocid rdseed adx smap clflushopt clwb intel\_pt sha\_ni xsaveopt xsavec xgetbv1 xsaves split\_lock\_detect user\_shstk avx\_vnni dtherm ida arat pln pts hwp hwp notify hwp act\_window hwp\_epp hwp\_pkg\_req hfi vnmi umip pku

ospke waitpkg gfni vaes vpclmulmaq tme rdpid movdiri movdir64b fsrm md\_clear serialize pconfig arch\_lbr ibt flush\_lld arch\_capabilities

```
Virtualization/
                                      VT-x
Lld cache:
                                      896 KiB (24 instances)
Lli cache:
                                      1.3 MiB (24 instances)
L2 cache:
                                      32 MiB (12 instances)
L3 cache
                                      36 MiB (1 instance)
NUMA node(s):
```

NUMA node0 CPU(s): 0,2,4,6,8,10,12,14,16-31

Vulnerability Gather data sampling: Not affected Vulnerability Itlb multihit: Not affected vulnerability Litf: Not affected Wulnerability Mds: Not affected Vulnerabilit Meltdown: Not affected Vulnerability Mmio stale data: Not affected Vulnerability Retbleed: Not affected Vulnerability Spec rstack overflow: Not affected

Wulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled

via prctl

Vulmerability Spectre v1: Mitigation; usercopy/swapgs barriers and \_\_user

pointer sanitization

Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS, IBPB

conditional, RSB filling, PBRSB-eIBRS SW sequence Vulnerability Srbds: Not affected Not affected Vulnerability Tsx async abort:

/proc/cpuinfo cache data cache size : 36864 KB

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0.00

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

```
From numactl --hardware WARNING: a numactl 'node' might ok might not correspond to a
physical chip.
From /proc/meminfo
                   131660532 kB
   MemTotal:
   HugePages_Total:
                         0
   Hugepagesize:
                       2048 kB
/usr/bin/lsb_release -d
   Ubuntu 22.04.4 LTS
From /etc/*release* /etc/*version*
   debian_version: bookworm(sid
   os-release:
      PRETTY_NAME="Ubuntu 22.04.4 DTS"
      NAME="Ubuntu"
      VERSION_ID="22.04"
      VERSION="22.04.4 LTS Jammy Jell
      VERSION_CODENAME = jammy
      ID=ubuntu
      ID_LIKE=debian
      HOME_URL="https://www.ubuntu.com/"
uname -a:
   Linux shr-work 6.8 0-76060800daily20240311-generic
   #202403110203~1713206908~22.04~3a62479~dev-Ubuntu SMP PREEMPT_DY x86_64 x86_64 x86_64
      self-reported vulnerability status:
Kernel
gather_data_sampling:
                                          Not affected
itlb_multihit:
                                          Not affected
CVE 2018-3620 (11 Terminal Fault):
                                          Not affected
Microarchitectural Data Sampling:
                                          Not affected
CVE 2017-5754 (Meltdown):
                                          Not affected
mmio_stale_data:
                                          Not affected
                                          Not affected
retbleed:
                                          Not affected
spec_rstack_overflow:
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled
                                           via prctl
CVE-2017-5753 (Spectre variant 1):
                                         Mitigation: usercopy/swapgs barriers and __user
                                          pointer sanitization
CVE-2017-5715 (Spectre variant 2):
                                          Mitigation: Enhanced / Automatic IBRS, IBPB:
                                           conditional, RSB filling, PBRSB-eIBRS: SW
                                           sequence
srbds:
                                          Not affected
```

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Jun-2024 Test Date:

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#### Platform Notes (Continued)

tsx\_async\_abort:

Not affected

run-level 5 May 12 16:41

SPEC is set to: /mnt/seconddrive/Code/deque g-root/segue-lf://spec2017 Type Size Used Avail Use% Mounted on Filesystem

/dev/nvme0n1p1 ext4 3.6T 690G 2.8T 20% /mnt/seconddrive

From /sys/devices/virtual/dmi/id

BIOS: System76 FH Z5  $01(/2)^{4}/2024$ 

Vendor: System76 Product: Thelio Mira Product Family: Z790 MB

Cannot run dmidecode; consider saying (as root) chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

#### **Compiler Version Notes**

```
519.lbm_r(base) 538.imag/ck_r(base) 544.nab_r(base)
Using built-in specs
COLLECT_GCC=/opt/lfi-amd64/bin/internal-x86_64-linux-musl-gcc
COLLECT_LTO_WRAPPER=/opt/lf1-amd64/bin/../libexec/gcc/x86_64-linux-mus1/13.2.0/lto-wrapper
Target: x86_64 linux-musl
Configured with: ./gcc/configure --target=x86_64-linux-musl --disable-docs
  --disable-multilib --disable-shared
  --enable languages=c,c++ --enable-lto
  --prefix=/home/zyedidia/programming/lfi/toolchain/lfi-gcc/lfi-amd64
  -with-pkgversion=LFI
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 13.2.0 (LFI)
    508.namd_r(base) 510.parest_r(base)
Using built-in specs.
COLLECT GCC=/opt/lfi-amd64/bin/internal-x86 64-linux-musl-q++
COLLECT LTO WRAPPER=/opt/lfi-amd64/bin/../libexec/qcc/x86 64-linux-musl/13.2.0/lto-wrapper
Target: x86_64-linux-musl
Configured with: ../gcc/configure --target=x86_64-linux-musl --disable-docs
```

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My Corporation My Corporation Test Date: Jun-2024

Hardware Availability: Software Availability:

#### Compiler Version Notes (Continued)

```
--disable-bootstrap --disable-libssp --disable-multilib --disable-shared
```

--enable-languages=c,c++ --enable-lto

--prefix=/home/zyedidia/programming/lfi/toolchain/lfi-gcc/lri-2md64

--with-pkgversion=LFI Thread model: posix

Supported LTO compression algorithms: zlib xstd

gcc version 13.2.0 (LFI)

C++, C | 511.povray\_r(base)

Using built-in specs.

COLLECT\_GCC=/opt/lfi-amd64/Din/internal\_x86\_64-linux-musl-g++

COLLECT\_LTO\_WRAPPER=/opt/lfi-amd64/bin/../libexec/gcc/x86\_64-linux-mus1/13.2.0/lto-wrapper

Target: x86\_64-linux-musl

Configured with: ../gcc/configure -target=x86\_64-linux-musl --disable-docs

--disable-bootstrap --disable-libssq --disable-multilib --disable-shared

--enable-languages=c,c+f --enable-lto --prefix=/home/zyedidia/proframming/fi/toolchain/lfi-gcc/lfi-amd64

--with-pkgversion=LFI

Thread model: posix

Supported LTO compression algorithms: zlib zstd

gcc version 13.2.0 (LFT)

Using built-in specs.

COLLECT\_GCC=/obt/lfi-amd64/bin/internal-x86\_64-linux-musl-gcc

COLLECT\_LTO\_WRAPPER=/opt/lfi-amd64/bin/../libexec/gcc/x86\_64-linux-mus1/13.2.0/lto-wrapper

Target: x86\_64-linux-musl

Configured with ../gcc/configure --target=x86\_64-linux-musl --disable-docs

--disable-bootstrap --disable-libssp --disable-multilib --disable-shared

--enable-languages=0,c++ --enable-lto

--purix=Xhome/zyedidia/programming/lfi/toolchain/lfi-gcc/lfi-amd64

-with-pkgversion=LFI

Thread model posix

Supported LTO compression algorithms: zlib zstd gcc version 13.2.0 (LFI)

### **Base Unknown Flags**

508.namd\_r: "/opt/lfi-amd64/bin/x86 64-linux-musl-" (in CXX)

"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in LD)

"-fomit-frame-pointer"(in OPTIMIZE)

510.parest\_r: "/opt/lfi-amd64/bin/x86\_64-linux-musl-" (in CXX)

"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in LD)

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Software Availability:

### Base Unknown Flags (Continued)

510.parest\_r (continued):

"-fomit-frame-pointer" (in OPTIMIZE)

511.povray\_r: "/opt/lfi-amd64/bin/x86\_64-lingx-musl-" (in CXX)

"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(m cs)

"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in LD)

"-fomit-frame-pointer" (in OPTIMIZE)

519.lbm\_r:"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in cc

"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in \D)

"-fomit-frame-pointer" (in OPTIMIZE)

538.imagick\_r: "/opt/lfi-amd64/bin/x86\_64-linux-musl-"(in CC)
"/opt/lfi-amd64/bin/x86\_64-linux-musl-"(inLD)

"-fomit-frame-pointer"(in OPTIMIZE)

544.nab\_r: "/opt/lfi-amd64/bin/x86\_64-linux masl-" (in CC)

"/opt/lfi-amd64/bin/x86\_64-linux-musl-(in/LD)

"-fomit-frame-pointer"(in OPTIMIXE)

### **Base Runtime Environment**

Benchmarks using both C and C++

511.povray\_r: No flags used

### **Base Compiler Invocation**

C benchmarks:

gca

C++ benchmarks

g++

Benchmarks using both C and C++:

511.povray\_r: q++ qcc

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### Base Portability Flags

508.namd\_r: -DSPEC\_LP64 510.parest\_r: -DSPEC\_LP64 511.povray\_r: -DSPEC\_LP64 519.lbm\_r: -DSPEC\_LP64 538.imagick\_r: -DSPEC\_LP64 544.nab\_r: -DSPEC\_LP64

### **Base Optimization Flags**

C benchmarks:

-std=c99 -O3 -flto

C++ benchmarks:

-std=c++03 -03 -flto

Benchmarks using both C and C++:

511.povray\_r: -std=c++03 -std=c99 -03

### **Base Other Flags**

Benchmarks using both C and C++:

511.povray\_r: No flags used

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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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