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My Corporation

SPECrate[®]2017_fp_base =

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)

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

526.blender_r (base) did not have enough runs!

549.fotonik3d_r (base) did not have enough runs!

510.parest_r (base) did not have enough runs!

511.povray_r (base) did not have enough runs!

507.cactuBSSN_r (base) did not have enough runs!

503.bwaves_r (base) did not have enough runs!

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														
507.cactuBSSN_r			/(N									
508.namd_r	1	233	4.08		\smile									
510.parest_r	1	470	<u>5.57</u>											
511.povray_r	1	326	<u>7.16</u>											
519.lbm_r	11	226	<u>4.67</u>											
521.wrf_r														
526.blender_r			1											
527.cam4_r	/		7											
538.imagick_r	//	<u>427</u>	<u>5.83</u>											
<i>5</i> /44.nab_r	1	295	<u>5.71</u>											
549.fotonik3d_r														
554.roms_r		V						·						

SPECrate 2017 / p_base = 5.42

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Results appear in the order in which they were run. Bold 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/:/lib64"

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Test Date: Jun-2024 Hardware Availability: Software Availability:

Platform Notes

Sysinfo program /mnt/seconddrive/Code/seguecg-root/segue-lki/spec2017/bin/sysinfo Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on shr-work Wed Jun 12 00:36:24/2024

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

For more information on this section, see

https://www.spec.org/cpu2017/Docs/conf/g.html#sysinfo

From /proc/cpuinfo

model name : 13th Gen Intel(R) Core(TM) 19-13900ks

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

47

From lscpu:

Architecture: CPU op-mode(s

Address sizes:

Byte Order:

CPU(s):

On-line CPU(s) list:

Off-line CPU(s) list

Vendor ID

Model name:

PU family

Model:

Thread(s) per core: Core(s) per socket:

Socket(s)/ Stepping:

CPU max MHz:

CPV min MHz:

Bog MIPS:

Flags:

x86_64

32-bit, 64-bit

46 bits physical, 48 bits virtual

Little Endian

32

0,2,4,6,8,10,12,14,16-31

1,3,5,7,9,11,13,15

GenuineIntel

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

6 183

1

24

1

6000.0000

0.0000

6374.40 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr

pge mca cmov pat pse36 clflush dts acpi 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 aperfmperf tsc_known_freq pni 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 f16c rdrand lahf_lm abm 3dnowprefetch cpuid_fault ssbd ibrs ibpb stibp ibrs_enhanced tpr_shadow flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1 avx2 smep bmi2 erms invpcid rdseed adx smap clflushopt clwb intel_pt

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SPECrate[®]2017_fp_base =

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debian_version: bookworm/sid

PRETTY_NAME="Ubuntu 22.04.4 LTS"

os-release:

NAME="Ubuntu"

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Test Date: Jun-2024
Hardware Availability:
Software Availability:

∂.42

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Platform Notes (Continued) 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 vpclmulqdq tme rdpid movdiri movdir64b fsrm md_clear serialize pconfig arch_lbr ibt flush_lld arch_capabilities Virtualization: Lld cache: 896 KiB (24 instances) Lli cache: MiB (24 instances) L2 cache: 2 MiB (1% instances) L3 cache: 6 MiB (1 instance) NUMA node(s): 0,2,4,6,8,10,12,14,16-31 NUMA node0 CPU(s): Vulnerability Gather data sampling: Not affected Vulnerability Itlb myltihit: Not affected Vulnerability L1tf: Not affected Vulnerability Mds: Not affected Vulnerability Meltdown: Not affected Not affected Vulnerability Mmio stale data: Vulnerability Retbleed: Not affected Vulnerability Spec stack overflow Vulnerability Spec store bypass Not affected Mitigation; Speculative Store Bypass disabled via prctl Vulnerability Spectre v Mitigation; usercopy/swapgs barriers and __user pointer sanitization Mitigation; Enhanced / Automatic IBRS, IBPB Vulnerability Spectre v conditional RSB filling, PBRSB-eIBRS SW sequence Not affected Vulnerability Srbds Vulnerability Tsx async abort: Not affected /proc/cpuinfo cache data cache size: 36864 KB From momactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip From /proc/meminfo MemTotal: 131660532 kB HugePages_Total: 0 Hugepagesize: 2048 kB /usr/bin/lsb_release -d Ubuntu 22.04.4 LTS From /etc/*release* /etc/*version*

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Hardware Availability: Software Availability:

```
Platform Notes (Continued)
```

```
VERSION_ID="22.04"
VERSION="22.04.4 LTS (Jammy Jellyfish)"
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

Kernel self-reported vulnerability status:

```
gather_data_sampling:
itlb_multihit:
CVE-2018-3620 (L1 Terminal Fault):
Microarchitectural Data Sampling:
CVE-2017-5754 (Meltdown)
mmio_stale_data:
retbleed:
spec_rstack_overflow:
CVE-2018-3639 (Speculative Store Bypeculative Store Bypeculat
```

CVE-2017-5715 (Spectre variant 2):

Not affected
Not affected
Wot affected
Not affected
Not affected
Not affected
Not affected
Not affected
Not affected
Sypass): Mitigation: Speculative Store Bypass disabled
via prctl

Mitigation: usercopy/swapgs barriers and __user pointer sanitization Mitigation: Enhanced / Automatic IBRS, IBPB: conditional, RSB filling, PBRSB-eIBRS: SW

sequence
srbds:
Not affected
tsx_async_abort:
Not affected

run-level 5 May 12 16:41

```
SREC is set to /mnt/seconddrive/Code/seguecg-root/segue-lfi/spec2017
Rilesystem Type Size Used Avail Use% Mounted on
/dev/nvme0n1p1 ext4 3.6T 693G 2.8T 20% /mnt/seconddrive
```

From /sys/devices/virtual/dmi/id BIOS: System76 FH Z5 01/25/2024 Vendor: System76 Product: Thelio Mira Product Family: Z790 MB

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

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Test Date: Jun-2024

https://www.spec.org/

Hardware Availability: Software Availability:

Platform Notes (Continued)

(End of data from sysinfo program)

Compiler Version Notes

```
------
                                         ____
     519.lbm_r(base) 538.imagick_r(base) 544 nab_r(base)
Using built-in specs.
COLLECT_GCC=/opt/native-gcc/bin/internal-k86_64-linux-musl-gcc
COLLECT_LTO_WRAPPER=/opt/native-gcd/bin/../libexec/gcd/x86_64-linux-mus1/13.2.0/lto-wrapper
Target: x86_64-linux-musl
Configured with: ../gcc/configure -/target=x86_64_finux-musl --disable-docs
  --disable-bootstrap --disable-libssp -disable-multilib --disable-shared
  --enable-languages=c,c++ --enable-lto
  --prefix=/home/zyedidia/programming/lfi/too/chain/lfi-gcc/native-gcc
  --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/native-gc/bin/internal-x86_64-linux-musl-g++
COLLECT_LTO_WRAPPER=/opt/native-gcc/bin/../libexec/gcc/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
  --disable-multilib --disable-shared
  --enable languages=c,c++ --enable-lto
  --prefix=/home/zyedidia/programming/lfi/toolchain/lfi-gcc/native-gcc
  -with-pkgversion=LFI
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 13.2.0 (LFI)
C++, C | 511.povray_r(base)
Using built-in specs.
COLLECT GCC=/opt/native-gcc/bin/internal-x86 64-linux-musl-g++
COLLECT LTO WRAPPER=/opt/native-qcc/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
                                 (Continued on next page)
```

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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-goc/nati/e-gcc

--with-pkgversion=LFI

Thread model: posix

Supported LTO compression algorithms: zlib xstd

gcc version 13.2.0 (LFI)

Using built-in specs.

COLLECT_GCC=/opt/native-gcc/bin/internal-x86_64-liqux-musl-gcc

COLLECT_LTO_WRAPPER=/opt/native-gcc/bin/../libexec/gcc/x86_64-linux-musl/13.2.0/lto-wrapper

Target: x86_64-linux-musl

Configured with: ../gcc/configure - target=x86_64-11nux-musl --disable-docs

--disable-bootstrap --disable-libes --disable-multilib --disable-shared

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

--prefix=/home/zyedidia/programming/lfi/toolchain/lfi-gcc/native-gcc

--with-pkgversion=LFI

Thread model: posix

Supported LTO compression algorithms: zllb zstd

gcc version 13.2.0 (LFI)

Base Unknown Flags

```
508.namd_r: "/opt/mative-god/bin/x86_64-linux-musl-" (in CXX) "/opt/native-god/bin/x86_64-linux-musl-" (in LD)
```

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

510.parest_r://opt/hative-gcc/bin/x86_64-linux-musl-"(in CXX)

/opt/native-gcc/bin/x86_64-linux-musl-"(in LD)

-fomit-frame-pointer (in OPTIMIZE)

51 povray_r: \copt/native-gcc/bin/x86_64-linux-musl-"(in CXX)

Vopt(native-gcc/bin/x86_64-linux-musl-"(in CC)

"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)

"-fomit-frame pointer" (in OPTIMIZE)

519.lbm_r: "Yopt/native-gcc/bin/x86_64-linux-musl-"(in CC)

"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)

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

538.imagick_r: "/opt/native-qcc/bin/x86 64-linux-musl-"(in CC)

"/opt/native-gcc/bin/x86 64-linux-musl-"(in LD)

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

544.nab_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CC)

"/opt/native-gcc/bin/x86_64-linux-musl-"(in LD)

SPEC CPU®2017 Floating Point Rate Result Copyright 2017-2024 Standard Performance Evaluation Corporation My Corporation SPECrate®2017_fp_base = SPECrate®2017_fp_peak= **∜**ot Run CPU2017 License: nnn (Your SPEC license number) Test Date: Jun-2024 Hardware Availability: **Test Sponsor:** My Corporation Tested by: Software Availability: My Corporation Base Unknown Flags (Continued 544.nab r (continued): "-fomit-frame-pointer" (in OPTIMIZE) **Base Runtime Environment** Benchmarks using both C and C++: 511.povray_r: No flags used **Base Compiler Invocation** C benchmarks: qcc C++ benchmarks: Benchmarks using both C and 511.povray_r: g++ **Base Portability Flags** 508.namd_r: DSPEC_NP6 510.parest_r: -DSPEC_LP64 511 povray_r: DSPEC_LP64 519.lbm_r:-DSPEC_LF64 538 imagick_r: -DSPEC_LP64 544.nab_r: -DSPEC LP64 **Base Optimization Flags** C benchmarks: -std=c99 -03 -flto

C++ benchmarks:

-std=c++03 -O3 -flto

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Base Optimization Flags (Continued)

Benchmarks using both C and C++:

511.povray_r: -std=c++03 -std=c99 -03 -flto

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.

Tested with SPEC CPU®2017 v0.0.0 on 2024-06-12 00:36:23-0500.

Report generated on 2024-06-12 01:15:34 by CPU2017 PDF formatter v6255.