

SPEC CPU®2017 Integer Rate Result

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My Corporation

SPECrate®2017_int_base = 4.05

SPECrate®2017_int_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

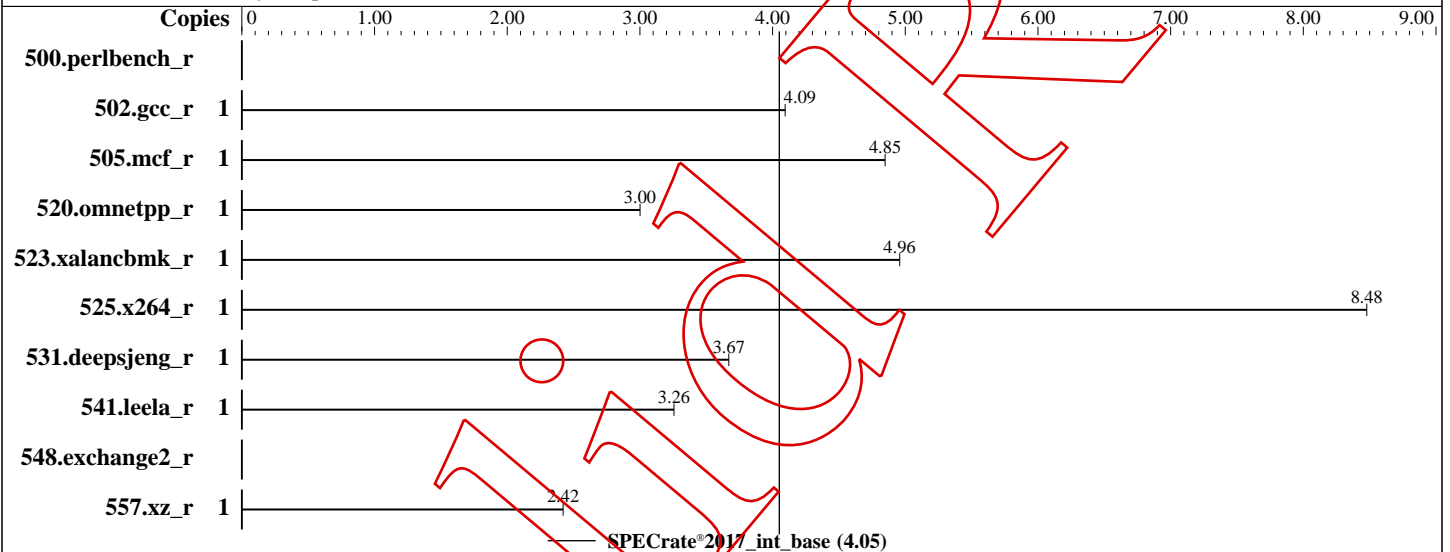
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Jun-2024

Hardware Availability:

Software Availability:



Hardware

CPU Name: 13th Gen Intel Core i9-13900KS
Max MHz:
Nominal:
Enabled: cores, 1 chip, threads/core
Orderable:
Cache L1:
L2:
L3:
Other:
Memory: 125.561 GB fixme: If using DDR4, the format is:
'N GB (N x N GB nRxn PC4-nnnnX-X)'
Storage: 3.6 TB add more disk info here
Other:

Software

OS: Ubuntu 22.04.4 LTS
Compiler: 6.8.0-76060800daily20240311-generic
C/C++/Fortran: Version 7.2.1 of GCC, the GNU Compiler Collection
Parallel: No
Firmware: No
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:
Power Management: --

Errors

'reportable' flag not set during run
548.exchange2_r (base) did not have enough runs!
523.xalancbmk_r (base) did not have enough runs!
525.x264_r (base) did not have enough runs!
557.xz_r (base) did not have enough runs!
541.leela_r (base) did not have enough runs!
502.gcc_r (base) did not have enough runs!
500.perlbench_r (base) did not have enough runs!
505.mcf_r (base) did not have enough runs!
520.omnetpp_r (base) did not have enough runs!
531.deepsjeng_r (base) did not have enough runs!

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Errors (Continued)

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

Benchmark	Base								Peak							
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r																
502.gcc_r	1	346	4.09													
505.mcf_r	1	333	4.85													
520.omnetpp_r	1	437	3.00													
523.xalancbmk_r	1	213	4.96													
525.x264_r	1	207	8.48													
531.deepsjeng_r	1	312	3.67													
541.leela_r	1	508	3.26													
548.exchange2_r																
557.xz_r	1	446	2.42													

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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"

Platform Notes

Sysinfo program /mnt/seconddrive/Code/seguecg-root/segue-lfi/spec2017/bin/sysinfo
Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011
running on shr-work Tue Jun 11 23:37:54 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/config.html#sysinfo>

From /proc/cpuinfo

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

1 "physical id"s (chips)

24 "processors"

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Platform Notes (Continued)

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:

x86_64

CPU 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

CPU family:

6

Model:

183

Thread(s) per core:

1

Core(s) per socket:

24

Socket(s):

1

Stepping:

1

CPU max MHz:

6000.0000

CPU min MHz:

0.0000

BogoMIPS:

6374.40

Flags:

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 bml avx2 smep bmi2 erms invpcid 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 vpclmulqdq tme rdpid movdiri movdir64b fsrm md_clear

serialize pconfig arch_lbr ibt flush_lld arch_capabilities

Virtualization:

VT-x

L1d cache:

896 KiB (24 instances)

L1i cache:

1.3 MiB (24 instances)

L2 cache:

32 MiB (12 instances)

L3 cache:

36 MiB (1 instance)

NUMA node(s):

1

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

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Platform Notes (Continued)

Vulnerability L1tf: Not affected
Vulnerability Mds: Not affected
Vulnerability Meltdown: Not affected
Vulnerability Mmio stale data: Not affected
Vulnerability Retbleed: Not affected
Vulnerability Spec rstack overflow: Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Enhanced / Automatic IBRS, IBPB conditional, RSB filling, PBRSE-eIBRS SW sequence
Vulnerability Srbds: Not affected
Vulnerability Tsx async abort: Not affected

/proc/cpuinfo cache data
cache size : 36864 KB

From numactl --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*
debian_version: bookworm/sid
os-release:
PRETTY_NAME="Ubuntu 22.04.4 LTS"
NAME="Ubuntu"
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
GNU/Linux

Kernel self-reported vulnerability status:

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Platform Notes (Continued)

```
gather_data_sampling:      Not affected
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
spec_rstack_overflow:      Not affected
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled
                                         via prctl
CVE-2017-5753 (Spectre variant 1): Mitigation: usercopy/swaps barriers and __user
                                         pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced / Automatic IBRS, IBPB:
                                         conditional, RSB filling, PBRBS-eIBRS: SW
                                         sequence
srbds:                     Not affected
tsx_async_abort:           Not affected

run-level 5 May 12 16:41

SPEC is set to: /mnt/seconddrive/Code/seguecg-root/segue-lfi/spec2017
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/nvme0n1p1 ext4  3.6T  690G  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

(End of data from sysinfo program)
```

Compiler Version Notes

```
=====
C | 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_r(base)
=====
```

Using built-in specs.

COLLECT_GCC=/opt/native-gcc/bin/internal-x86_64-linux-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-linux-musl --disable-docs

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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/native-gcc
--with-pkgversion=LFI
Thread model: posix
Supported LTO compression algorithms: zlib zstd
gcc version 13.2.0 (LFI)
-----

C++ | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
    | 541.leela_r(base)
-----

Using built-in specs.
COLLECT_GCC=/opt/native-gcc/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-bootstrap --disable-libssp --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)
-----
```

Base Unknown Flags

```
502.gcc_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CC)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fwrapv" (in PORTABILITY)
"-fomit-frame-pointer" (in OPTIMIZE)

505.mcf_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CC)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fomit-frame-pointer" (in OPTIMIZE)

520.omnetpp_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CXX)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-D_LARGEFILE64_SOURCE" (in PORTABILITY)
"-fomit-frame-pointer" (in OPTIMIZE)

523.xalancbmk_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CXX)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fomit-frame-pointer" (in OPTIMIZE)
```

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Base Unknown Flags (Continued)

525.x264_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CC)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fcommon" (in PORTABILITY)
"-fomit-frame-pointer" (in OPTIMIZE)

531.deepsjeng_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CXX)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fomit-frame-pointer" (in OPTIMIZE)

541.leela_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CXX)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fomit-frame-pointer" (in OPTIMIZE)

557.xz_r: "/opt/native-gcc/bin/x86_64-linux-musl-" (in CC)
"/opt/native-gcc/bin/x86_64-linux-musl-" (in LD)
"-fomit-frame-pointer" (in OPTIMIZE)

Base Compiler Invocation

C benchmarks (except as noted below):

gcc

C++ benchmarks:

g++

Base Portability Flags

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
557.xz_r: -DSPEC_LP64

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Base Optimization Flags

C benchmarks:

502.gcc_r: -std=c99 -O3 -flto -fno-strict-aliasing -fgnu89-inline

505.mcf_r: Same as 502.gcc_r

525.x264_r: Same as 502.gcc_r

557.xz_r: Same as 502.gcc_r

C++ benchmarks:

-std=c++03 -O3 -flto

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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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