

# SPEC CPU®2017 Integer Rate Result

Copyright 2017-2024 Standard Performance Evaluation Corporation

My Corporation

SPECrate®2017\_int\_base = 0.00

SPECrate®2017\_int\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

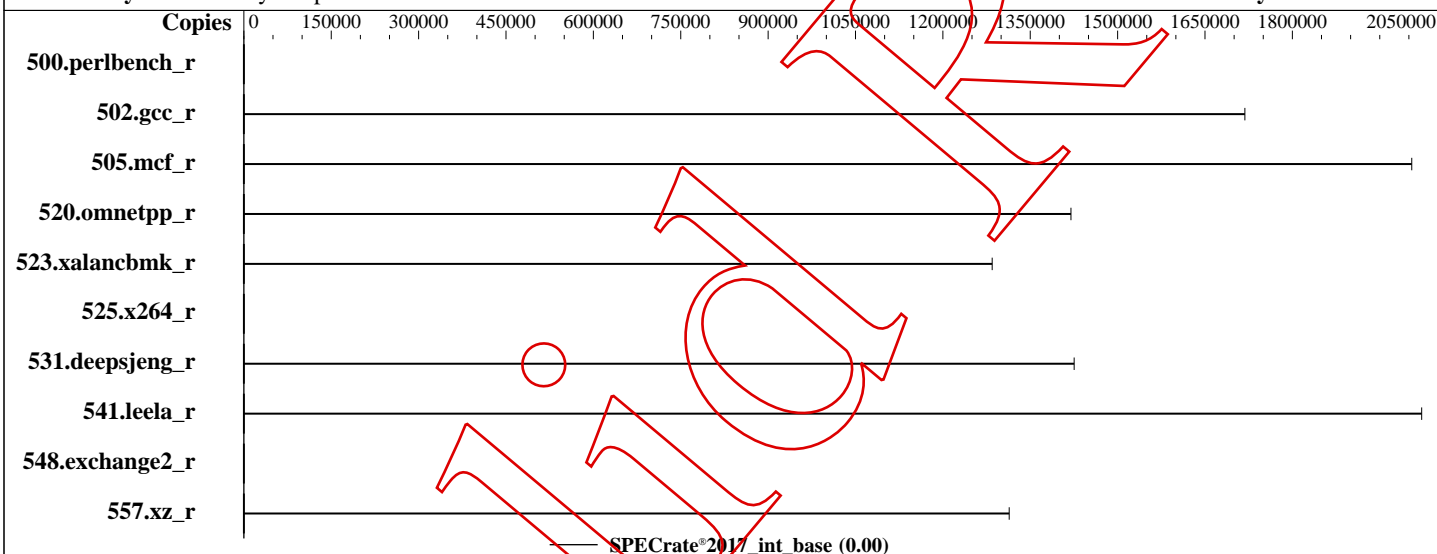
Test Sponsor: My Corporation

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

## Errors

There is no set of valid runs with the same number of copies for base  
'reportable' flag not set during run  
523.xalancbmk\_r (base) did not have enough runs!  
557.xz\_r (base) did not have enough runs!  
502.gcc\_r (base) did not have enough runs!  
548.exchange2\_r (base) did not have enough runs!  
531.deepsjeng\_r (base) did not have enough runs!  
525.x264\_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!  
541.leela\_r (base) did not have enough runs!

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## Errors (Continued)

500.perlbench\_r (base) did not have enough runs!  
523.xalancbmk\_r (base) had invalid runs!  
557.xz\_r (base) had invalid runs!  
502.gcc\_r (base) had invalid runs!  
531.deepsjeng\_r (base) had invalid runs!  
505.mcf\_r (base) had invalid runs!  
520.omnetpp\_r (base) had invalid runs!  
541.leela\_r (base) had invalid runs!  
Run of 502.gcc\_r (base) was not valid; status is RE  
Run of 505.mcf\_r (base) was not valid; status is RE  
Run of 520.omnetpp\_r (base) was not valid; status is RE  
Run of 523.xalancbmk\_r (base) was not valid; status is RE  
Run of 531.deepsjeng\_r (base) was not valid; status is RE  
Run of 541.leela\_r (base) was not valid; status is RE  
Run of 557.xz\_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

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r														
502.gcc_r	1	0.000824	0.00											
505.mcf_r	1	0.000806	0.00											
520.omnetpp_r	1	0.000924	0.00											
523.xalancbmk_r	1	0.000822	0.00											
525.x264_r														
531.deepsjeng_r	1	0.000804	0.00											
541.leela_r	1	0.000819	0.00											
548.exchange2_r														
557.xz_r	1	0.000822	0.00											

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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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## Platform Notes

Sysinfo program /mnt/seconddrive/Code/seguecg-root/segue-lfi/spec2017/bin/sysinfo  
Rev: r6365 of 2019-08-21 295195f888a3d7edble6e46a485a0011  
running on shr-work Tue Jun 11 23:37:17 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"

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

pdpe1gb 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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## 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:

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

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"

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## 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  
GNU/Linux

Kernel self-reported vulnerability status:

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, PBR SB-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	692G	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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## Platform Notes (Continued)

(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/lfi-amd64/bin/internal-x86\_64-linux-musl-gcc

COLLECT\_LTO\_WRAPPER=/opt/lfi-amd64/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/lfi-amd64

--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/lfi-amd64/bin/internal-x86\_64-linux-musl-g++

COLLECT\_LTO\_WRAPPER=/opt/lfi-amd64/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/lfi-amd64

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

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

"-fwrapv" (in PORTABILITY)

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

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## Base Unknown Flags (Continued)

505.mcf\_r: "/opt/lfi-amd64/bin/x86\_64-linux-musl-" (in CC)

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

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

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

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

"-D\_LARGEFILE64\_SOURCE" (in PORTABILITY)

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

523.xalancbmk\_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)

531.deepsjeng\_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)

541.leela\_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)

557.xz\_r: "/opt/lfi-amd64/bin/x86\_64-linux-musl-" (in CC)

"/opt/lfi-amd64/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

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## Base Portability Flags (Continued)

531.deepsjeng\_r: -DSPEC\_LP64

541.leela\_r: -DSPEC\_LP64

557.xz\_r: -DSPEC\_LP64

## 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

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](mailto:info@spec.org).

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