

# SPEC CPU®2017 Integer Rate Result

Copyright 2017-2023 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-2023

Hardware Availability:

Software Availability:

## Copies

500.perlbench\_r

502.gcc\_r

505.mcf\_r

520.omnetpp\_r

523.xalancbmk\_r

525.x264\_r

531.deepsjeng\_r

541.leela\_r

548.exchange2\_r

557.xz\_r

## Hardware

CPU Name: Intel Core i7-10750H

Max MHz:

Nominal:

Enabled: cores, 1 chip, threads/core

Orderable:

Cache L1:

L2:

L3:

Other:

Memory: 15.469 GB fixme: If using DDR4, the format is:  
'N GB (N x N GB nRxn PC4-nnnnX-X)'

Storage: 916 GB, add more disk info here

Other:

OS:

Compiler:

Parallel:

Firmware:

File System:

System State:

Base Pointers:

Peak Pointers:

Other:

Power Management: --

## Software

Ubuntu 18.04.6 LTS

5.4.0-150-generic

C/C++/Fortran: Version 7.2.1 of GCC, the  
GNU Compiler Collection

No

ext4

Run level 5 (add definition here)

64-bit

Not Applicable

## 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!

520.omnetpp\_r (base) did not have enough runs!

525.x264\_r (base) did not have enough runs!

500.perlbench\_r (base) did not have enough runs!

502.gcc\_r (base) did not have enough runs!

557.xz\_r (base) did not have enough runs!

505.mcf\_r (base) did not have enough runs!

541.leela\_r (base) did not have enough runs!

548.exchange2\_r (base) did not have enough runs!

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## Errors (Continued)

Input set must be 'refrate' for a valid run (set to 'test' for this run)

## 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																
505.mcf_r																
520.omnetpp_r																
523.xalancbmk_r																
525.x264_r																
531.deepsjeng_r	1	4.83	0.00	4.83	0.00											
541.leela_r																
548.exchange2_r																
557.xz_r																

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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

/media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f/spec-cpu-2017/bin/sysinfo

Rev: r6365 of 2019-08-21 295195f888a3d7edble6e46a485a0011

running on fabricio-server Wed Jun 14 21:03:43 2023

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 : Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz

1 "physical id"s (chips)

12 "processors"

cores, siblings (Caution: counting these is hw and system dependent. The following

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## Platform Notes (Continued)

excerpts from /proc/cpuinfo might not be reliable. Use with caution.)

```
cpu cores : 6
siblings  : 12
physical 0: cores 0 1 2 3 4 5
```

From lscpu:

```
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Byte Order:            Little Endian
CPU(s):                12
On-line CPU(s) list:   0-11
Thread(s) per core:    2
Core(s) per socket:    6
Socket(s):             1
NUMA node(s):         1
Vendor ID:             GenuineIntel
CPU family:            6
Model:                165
Model name:            Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz
Stepping:              2
CPU MHz:               4645.810
CPU max MHz:           5000.0000
CPU min MHz:           800.0000
BogoMIPS:              5199.98
Virtualization:        VT-x
L1d cache:             32K
L1i cache:             32K
L2 cache:              256K
L3 cache:              12288K
NUMA node0 CPU(s):    0-11
```

```
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
aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3 sdbg fma cx16 xtpr
pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c
rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb invpcid_single ssbd ibrs ibpb stibp
ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1
avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_pt xsaveopt xsavec
xgetbv1 xsaves dtherm ida arat pln pts hwp hwp_notify hwp_act_window hwp_epp pku
ospke md_clear flush_lld arch_capabilities
```

```
/proc/cpuinfo cache data
cache size : 12288 KB
```

From numactl --hardware WARNING: a numactl 'node' might or might not correspond to a physical chip.

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## Platform Notes (Continued)

From /proc/meminfo

MemTotal: 16220164 kB

HugePages\_Total: 0

Hugepagesize: 2048 kB

/usr/bin/lsb\_release -d

Ubuntu 18.04.6 LTS

From /etc/\*release\* /etc/\*version\*

debian\_version: buster/sid

os-release:

NAME="Ubuntu"

VERSION="18.04.6 LTS (Bionic Beaver)"

ID=ubuntu

ID\_LIKE=debian

PRETTY\_NAME="Ubuntu 18.04.6 LTS"

VERSION\_ID="18.04"

HOME\_URL="https://www.ubuntu.com/"

SUPPORT\_URL="https://help.ubuntu.com/"

uname -a:

Linux fabricio-server 5.4.0-150-generic #167~18.04.1-Ubuntu SMP Wed May 24 00:51:42

UTC 2023 x86\_64 x86\_64 x86\_64 GNU/Linux

Kernel self-reported vulnerability status:

itlb\_multihit:

CVE-2018-3620 (L1 Terminal Fault):

Microarchitectural Data Sampling:

CVE-2017-5754 (Meltdown):

mmio\_stale\_data:

retbleed:

CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled via prctl and seccomp

CVE-2017-5753 (Spectre variant 1):

CVE-2017-5715 (Spectre variant 2):

srbsds:

tsx\_async\_abort:

KVM: Mitigation: Split huge pages

Not affected

Not affected

Not affected

Mitigation: Clear CPU buffers; SMT vulnerable  
Mitigation: Enhanced IBRS

Mitigation: Speculative Store Bypass disabled via prctl and seccomp

Mitigation: usercopy/swaps barriers and \_\_user pointer sanitization

Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling, PBRBS-eIBRS: SW sequence

Mitigation: Microcode

Not affected

run-level 5 Jun 14 20:43

SPEC is set to: /media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f/spec-cpu-2017

Filesystem Type Size Used Avail Use% Mounted on

/dev/nvme0n1p1 ext4 916G 17G 853G 2%

/media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f

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## Platform Notes (Continued)

```
From /sys/devices/virtual/dmi/id
  BIOS:      American Megatrends Inc. N.1.02 07/17/2020
  Vendor:    Avell High Performance
  Product:   C62 LIV
  Product Family: C62 LIV
```

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

(End of data from sysinfo program)

## Compiler Version Notes

```
=====  
C++ | 53l.deepsjeng_r(base)  
-----
```

Using built-in specs.

COLLECT\_GCC=/usr/bin/g++

COLLECT\_LTO\_WRAPPER=/usr/lib/gcc/x86\_64-linux-gnu/7/lto-wrapper

OFFLOAD\_TARGET\_NAMES=nvptx-none

OFFLOAD\_TARGET\_DEFAULT=1

Target: x86\_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu

7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr

--with-gcc-major-version-only --program-suffix=-7

--program-prefix=x86\_64-linux-gnu- --enable-shared --enable-linker-build-id

--libexecdir=/usr/lib --without-included-gettext --enable-threads=posix

--libdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=gnu

--enable-libstdcxx-debug --enable-libstdcxx-time=yes

--with-default-libstdcxx-abi=new --enable-gnu-unique-object

--disable-vtable-verify --enable-libmpx --enable-plugin

--enable-default-pie --with-system-zlib --with-target-system-zlib

--enable-objc-gc=auto --enable-multiarch --disable-werror

--with-arch=32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32

--enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none

--without-cuda-driver --enable-checking=release --build=x86\_64-linux-gnu

--host=x86\_64-linux-gnu --target=x86\_64-linux-gnu

Thread model: posix

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)  
-----

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## Base Runtime Environment

C++ benchmarks:

531.deepsjeng\_r: No flags used

## Base Compiler Invocation

C++ benchmarks:

531.deepsjeng\_r: g++

## Base Portability Flags

531.deepsjeng\_r: -DSPEC\_LP64

## Base Optimization Flags

C++ benchmarks:

531.deepsjeng\_r: -m64 -std=c++03 -g -O3 -march=native  
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize

## Base Other Flags

C++ benchmarks:

531.deepsjeng\_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](mailto:info@spec.org).

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