

# SPEC CPU®2017 Integer Rate Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

My Corporation

SPECrate®2017\_int\_base = 4.86

SPECrate®2017\_int\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

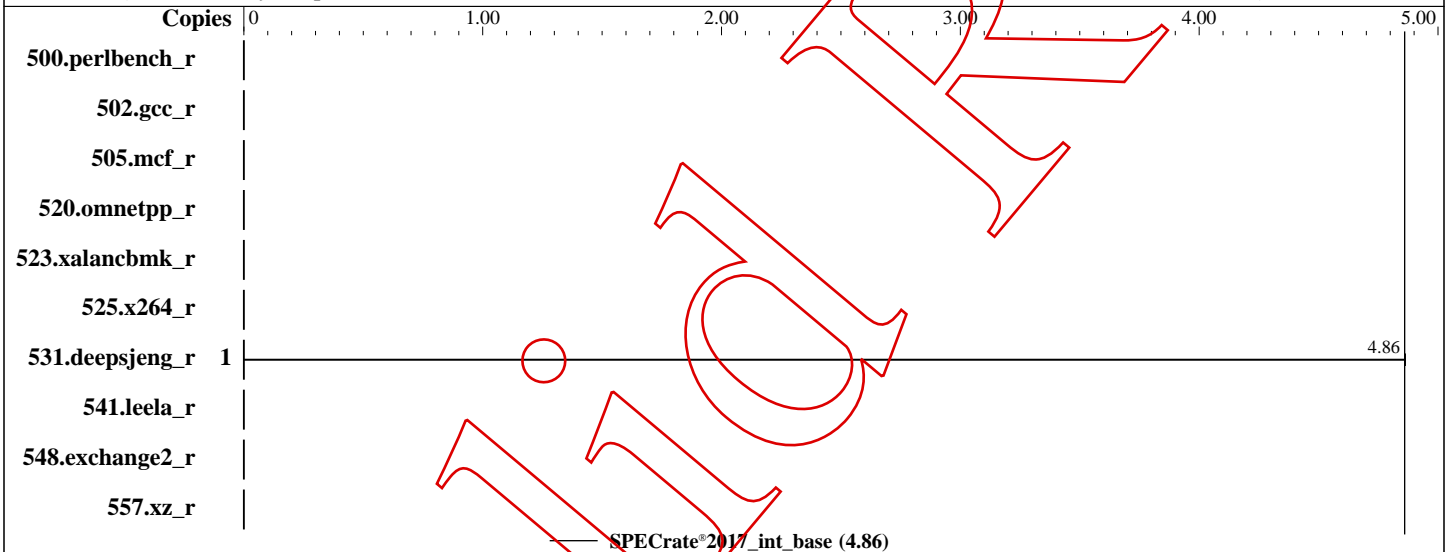
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Jun-2023

Hardware Availability:

Software Availability:



## 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:

## Software

OS: Ubuntu 18.04.6 LTS  
5.4.0-150-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

'reportable' flag not set during run  
548.exchange2\_r (base) did not have enough runs!  
541.leela\_r (base) did not have enough runs!  
505.mcf\_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!  
525.x264\_r (base) did not have enough runs!  
500.perlbench\_r (base) did not have enough runs!  
520.omnetpp\_r (base) did not have enough runs!  
523.xalancbmk\_r (base) did not have enough runs!

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## 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														
505.mcf_r														
520.omnetpp_r														
523.xalancbmk_r														
525.x264_r														
531.deepsjeng_r	1	<b>236</b>	<b>4.86</b>	236	4.86									
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  
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:

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## Platform Notes (Continued)

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 aperfmperf 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.

From /proc/meminfo  
MemTotal: 16220164 kB  
HugePages\_Total: 0  
Hugepagesize: 2048 kB

/usr/bin/lsb\_release -d

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## Platform Notes (Continued)

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): Mitigation: usercopy/swapgs barriers and \_\_user pointer sanitization

CVE-2017-5715 (Spectre variant 2): Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling, PBRSE-eIBRS: SW sequence

srbds: Mitigation: Microcode

tsx\_async\_abort: 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

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

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## Platform Notes (Continued)

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

(End of data from sysinfo program)

## Compiler Version Notes

=====  
C++ | 531.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)  
=====

## Base Runtime Environment

C++ benchmarks:

531.deepsjeng\_r: No flags used

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## 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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