

# SPEC® CPU2017 Integer Rate Result

Copyright 2017 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017\_int\_base = 4.14

SPECrate2017\_int\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

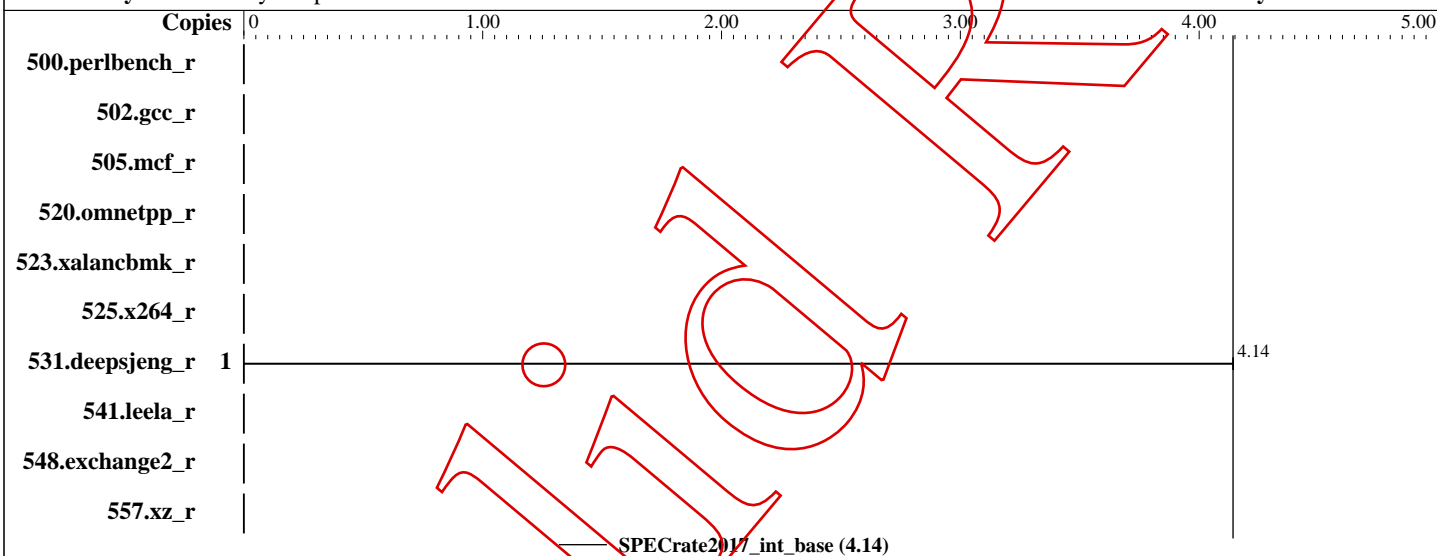
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Nov-2017

Hardware Availability:

Software Availability:



## Hardware

CPU Name: Intel Core i7-7700  
Max MHz.:  
Nominal:  
Enabled: cores, 1 chip, threads/core  
Orderable:  
Cache L1:  
L2:  
L3:  
Other:  
Memory: 7.507 GB fixme: If using DDR3, format is:  
'N GB (M x N GB nRxn PCn-nnnnnR-n, ECC)'  
Storage: 939 GB add more disk info here  
Other:

## Software

OS: Ubuntu 16.04.3 LTS  
4.4.0-97-generic  
Compiler: C/C++: Version 3.9.0 of Clang, the  
LLVM Compiler Infrastructure  
Fortran: Version 4.8.2 of GCC, the  
GNU Compiler Collection  
DragonEgg: Version 3.5.2, the  
LLVM Compiler Infrastructure  
Parallel: No  
Firmware:  
File System: ext4  
System State: Run level 3 (add definition here)  
Base Pointers: 64-bit  
Peak Pointers: Not Applicable  
Other:

## Errors

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

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## Errors (Continued)

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

## 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	<u>277</u>	<u>4.14</u>	277	4.14	277	4.14							
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.

## Submit Notes

The config file option 'submit' was used.

## General Notes

Environment variables set by runcpu before the start of the run:

LD\_LIBRARY\_PATH = "/mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-release/lib"

LIBRARY\_PATH = "/mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-release/lib"

PATH = \*/mnt/freezedisk/llvm-intptr-br5.5-gvnnocast-release/bin:/mnt/freezedisk/speccpu2017-intptr/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/snap/bin"

## Platform Notes

Sysinfo program /mnt/freezedisk/speccpu2017-intptr/bin/sysinfo

Rev: r5797 of 2017-06-14 96c45e4568ad54c135fd618bcc091c0f

running on freeze3 Mon Nov 13 15:26:09 2017

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>

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## Platform Notes (Continued)

From /proc/cpuinfo

model name : Intel(R) Core(TM) i7-7700 CPU @ 3.60GHz

1 "physical id"s (chips)

4 "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 : 4

siblings : 4

physical 0: cores 0 1 2 3

From lscpu:

Architecture: x86\_64

CPU op-mode(s): 32-bit 64-bit

Byte Order: Little Endian

CPU(s): 4

On-line CPU(s) list: 0-3

Thread(s) per core: 1

Core(s) per socket: 4

Socket(s): 1

NUMA node(s): 1

Vendor ID: GenuineIntel

CPU family: 6

Model: 158

Model name: Intel(R) Core(TM) i7-7700 CPU @ 3.60GHz

Stepping: 9

CPU MHz: 3335.765

CPU max MHz: 4200.0000

CPU min MHz: 800.0000

BogoMIPS: 7199.62

Virtualization: VT-x

L1d cache: 32K

L1i cache: 32K

L2 cache: 256K

L3 cache: 8192K

NUMA node0 CPU(s): 0-3

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

aperfperf eagerfpu pni pclmulqdq dtes64 monitor ds\_cpl vmx smx 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 epb intel\_pt tpr\_shadow vnmi

flexpriority ept vpid fsgsbase tsc\_adjust bmi1 hle avx2 smep bmi2 erms invpcid rtm

mpx rdseed adx smap clflushopt xsaveopt xsavec xgetbv1 dtherm arat pln pts hwp

hwp\_notify hwp\_act\_window hwp\_epp

/proc/cpuinfo cache data

cache size : 8192 KB

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## Platform Notes (Continued)

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

```
available: 1 nodes (0)
node 0 cpus: 0 1 2 3
node 0 size: 7687 MB
node 0 free: 7250 MB
node distances:
node 0
0: 10
```

From /proc/meminfo

```
MemTotal:      7872084 kB
HugePages_Total: 0
Hugepagesize:   2048 kB
```

/usr/bin/lsb\_release -d

```
Ubuntu 16.04.3 LTS
```

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

```
debian_version: stretch/sid
os-release:
NAME="Ubuntu"
VERSION="16.04.3 LTS (Xenial Xerus)"
ID=ubuntu
ID_LIKE=debian
PRETTY_NAME="Ubuntu 16.04.3 LTS"
VERSION_ID="16.04"
HOME_URL="http://www.ubuntu.com/"
SUPPORT_URL="http://help.ubuntu.com/"
```

uname -a:

```
Linux freeze3 4.4.0-97-generic #120-Ubuntu SMP Tue Sep 19 17:28:18 UTC 2017 x86_64
x86_64 x86_64 GNU/Linux
```

run-level 3 Oct 29 18:30

SPEC is set to: /mnt/freezedisk/speccpu2017-intptr

```
Filesystem      Type  Size  Used Avail Use% Mounted on
/dev/sdb1        ext4  939G  727G  165G  82% /mnt/freezedisk
```

Additional information from dmidecode follows. WARNING: Use caution when you interpret this section. The 'dmidecode' program reads system data which is "intended to allow hardware to be accurately determined", but the intent may not be met, as there are frequent changes to hardware, firmware, and the "DMTF SMBIOS" standard.

(End of data from sysinfo program)

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## Compiler Version Notes

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CXXC 531.deepsjeng\_r(base)

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clang version 6.0.0 (<https://github.com/aqjune/clang-intptr.git>  
4c61e7d94696e3346da34031080891f5b176cbe3)  
(<https://github.com/aqjune/llvm-intptr.git>  
dc57902874362bda6a92afc0a30531112b9a1258)  
Target: x86\_64-unknown-linux-gnu  
Thread model: posix  
InstalledDir: /mnt/freezedisk/llvm-intptr-br5.5-gvnmocast-release/bin  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/5  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/5.4.0  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/6  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/6.0.0  
Selected GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/5.4.0  
Candidate multilib: .;@m64  
Selected multilib: .;@m64

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## Base Runtime Environment

C++ benchmarks:

531.deepsjeng\_r: No flags used

## Base Compiler Invocation

C++ benchmarks:

531.deepsjeng\_r: clang++

## Base Portability Flags

531.deepsjeng\_r: -DSPEC\_LP64

## Base Optimization Flags

C++ benchmarks:

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## Base Optimization Flags (Continued)

531.deepsjeng\_r: -m64 -O3 -mavx -z muldefs

## 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).

Tested with SPEC CPU2017 v1.0.2 on 2017-11-13 15:26:09-0500.

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