

# SPEC® CPU2017 Integer Rate Result

Copyright 2017-2019 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017\_int\_base = 0.00

SPECrate2017\_int\_peak = 0.00

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Apr-2019

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 i5-7500

Max MHz.:

Nominal:

Enabled: cores, 1 chip, threads/core

Orderable:

Cache L1:

L2:

L3:

Other:

Memory: 7.677 GB fixme: If using DDR4, the format is:  
'N GB (N x N GB nRxn PC4-nnnnX-X)'

Storage: 341 GB add more disk info here

Other:

## Software

OS: Ubuntu 18.04.1 LTS

4.15.0-46-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 5 (add definition here)

Base Pointers: 64-bit

Peak Pointers: 64-bit

Other:

## Errors

Complete set of valid runs for peak rate unavailable (523.xalancbmk\_r missing)

Complete set of valid runs for peak rate unavailable (541.leela\_r missing)

Complete set of valid runs for peak rate unavailable (548.exchange2\_r missing)

(Continued on next page)

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## Errors (Continued)

Complete set of valid runs for peak rate unavailable (557.xz\_r missing)

Complete set of valid runs for peak rate unavailable (520.omnetpp\_r missing)

Complete set of valid runs for peak rate unavailable (505.mcf\_r missing)

Complete set of valid runs for peak rate unavailable (500.perlbench\_r missing)

Complete set of valid runs for peak rate unavailable (531.deepsjeng\_r missing)

Complete set of valid runs for peak rate unavailable (502.gcc\_r missing)

Complete set of valid runs for peak rate unavailable (525.x264\_r missing)

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!

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

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

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

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

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

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

531.deepsjeng\_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!

523.xalancbmk\_r (base) had invalid runs!

541.leela\_r (base) had invalid runs!

548.exchange2\_r (base) had invalid runs!

557.xz\_r (base) had invalid runs!

520.omnetpp\_r (base) had invalid runs!

505.mcf\_r (base) had invalid runs!

500.perlbench\_r (base) had invalid runs!

531.deepsjeng\_r (base) had invalid runs!

502.gcc\_r (base) had invalid runs!

523.xalancbmk\_r (peak) did not have enough runs!

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

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

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

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

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

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

531.deepsjeng\_r (peak) did not have enough runs!

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

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

523.xalancbmk\_r (peak) had invalid runs!

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(Continued on next page)

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## Errors (Continued)

548.exchange2\_r (peak) had invalid runs!

557.xz\_r (peak) had invalid runs!

520.omnetpp\_r (peak) had invalid runs!

505.mcf\_r (peak) had invalid runs!

500.perlbench\_r (peak) had invalid runs!

531.deepsjeng\_r (peak) had invalid runs!

502.gcc\_r (peak) had invalid runs!

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

Run of 500.perlbench\_r (base) was not valid; status is RE

Run of 500.perlbench\_r (peak) was not valid; status is RE

Run of 502.gcc\_r (base) was not valid; status is RE

Run of 502.gcc\_r (peak) was not valid; status is RE

Run of 505.mcf\_r (base) was not valid; status is RE

Run of 505.mcf\_r (peak) was not valid; status is RE

Run of 520.omnetpp\_r (base) was not valid; status is RE

Run of 520.omnetpp\_r (peak) was not valid; status is RE

Run of 523.xalancbmk\_r (base) was not valid; status is RE

Run of 523.xalancbmk\_r (peak) was not valid; status is RE

Run of 531.deepsjeng\_r (base) was not valid; status is RE

Run of 531.deepsjeng\_r (peak) was not valid; status is RE

Run of 541.leela\_r (base) was not valid; status is RE

Run of 541.leela\_r (peak) was not valid; status is RE

Run of 548.exchange2\_r (base) was not valid; status is CE

Run of 548.exchange2\_r (peak) was not valid; status is CE

Run of 557.xz\_r (base) was not valid; status is RE

Run of 557.xz\_r (peak) 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	1	0.000574	0.00					1	0.000582	0.00				
502.gcc_r	1	0.000582	0.00					1	0.000572	0.00				
505.mcf_r	1	0.000599	0.00					1	0.000572	0.00				
520.omnetpp_r	1	0.000588	0.00					1	0.000574	0.00				
523.xalancbmk_r	1	0.000584	0.00					1	0.000577	0.00				

Table continues on next page. Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

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Hardware Availability:

Software Availability:

## Results Table (Continued)

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
525.x264_r														
531.deepsjeng_r	1	0.000563	0.00					1	0.000560	0.00				
541.leela_r	1	0.000605	0.00					1	0.000568	0.00				
548.exchange2_r	1	0.00	0.00					1	0.00	0.00				
557.xz_r	1	0.000592	0.00					1	0.000599	0.00				

SPECrate2017\_int\_base = 0.00

SPECrate2017\_int\_peak = 0.00

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 = "/usr/lib/llvm-6.0/lib"

LIBRARY\_PATH = "/usr/lib/llvm-6.0/lib"

PATH = "/usr/lib/llvm-6.0/bin:/home/iiitd/Desktop/hw11/bin:/home/iiitd/.local/bin:/usr/local/bin:/usr/bin:/usr/sbin:/usr/bin:/usr/games:/usr/local/games:/snap/bin:/usr/lib/jvm/java-8-oracle/bin:/usr/lib/jvm/java-8-oracle/jre/bin:/usr/lib/jvm/java-8-oracle/bin:/usr/lib/jvm/java-8-oracle/jre/bin:/home/iiitd/Downloads/pkcs12tool.jar"

## Platform Notes

Sysinfo program /home/iiitd/Desktop/hw11/bin/sysinfo  
Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9  
running on iiit-d Sat Apr 6 20:07:47 2019

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) i5-7500 CPU @ 3.40GHz

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

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## Platform Notes (Continued)

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) i5-7500 CPU @ 3.40GHz  
Stepping: 9  
CPU MHz: 3605.747  
CPU max MHz: 3800.0000  
CPU min MHz: 800.0000  
BogoMIPS: 6816.00  
Virtualization: VT-x  
L1d cache: 32K  
L1i cache: 32K  
L2 cache: 256K  
L3 cache: 6144K  
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 cpuid  
aperfperf tsc\_known\_freq 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 cpuid\_fault epb invpcid\_single  
pti ssbd ibrs ibpb stibp tpr\_shadow vnmi flexpriority ept vpid fsgsbase tsc\_adjust  
bmi1 hle avx2 smep bmi2 erms invpcid rtm mpx rdseed adx smap clflushopt intel\_pt  
xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp\_notify hwp\_act\_window  
hwp\_epp flush\_l1d

/proc/cpuinfo cache data  
cache size : 6144 KB

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

From /proc/meminfo  
MemTotal: 8049856 kB  
HugePages\_Total: 128  
Hugepagesize: 2048 kB

/usr/bin/lsb\_release -d  
Ubuntu 18.04.1 LTS

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## Platform Notes (Continued)

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

debian\_version: buster/sid

os-release:

NAME="Ubuntu"

VERSION="18.04.1 LTS (Bionic Beaver)"

ID=ubuntu

ID\_LIKE=debian

PRETTY\_NAME="Ubuntu 18.04.1 LTS"

VERSION\_ID="18.04"

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

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

uname -a:

Linux iiii-d 4.15.0-46-generic #49-Ubuntu SMP Wed Feb 6 09:33:07 UTC 2019 x86\_64  
x86\_64 x86\_64 GNU/Linux

Kernel self-reported vulnerability status:

CVE-2017-5754 (Meltdown): Mitigation: PTI

CVE-2017-5753 (Spectre variant 1): Mitigation: \_\_user pointer sanitization

CVE-2017-5715 (Spectre variant 2): Mitigation: Full generic retpoline, IBPB, IBRS\_FW

run-level 5 2019-04-06 10:17

SPEC is set to: /home/iiitd/Desktop/hw11

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
/dev/sda1	ext4	341G	143G	180G	45%	/

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)

## Compiler Version Notes

=====  
CC 500.perlbench\_r(base, peak) 502.gcc\_r(base, peak) 505.mcf\_r(base, peak)  
525.x264\_r(base, peak) 557.xz\_r(base, peak)  
=====

clang version 6.0.0-1ubuntu2 (tags/RELEASE\_600/final)

Target: x86\_64-pc-linux-gnu

Thread model: posix

InstalledDir: /usr/lib/llvm-6.0/bin

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## Compiler Version Notes (Continued)

Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7.3.0  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/8  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/8.0.1  
Selected GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7.3.0  
Candidate multilib: .:/m64  
Selected multilib: .:/m64

=====  
CXXC 520.omnetpp\_r(base, peak) 523.xalancbmk\_r(base, peak)  
531.deepsjeng\_r(base, peak) 541.leela\_r(base, peak)  
=====

clang version 6.0.0-lubuntu2 (tags/RELEASE\_600/final)  
Target: x86\_64-pc-linux-gnu  
Thread model: posix  
InstalledDir: /usr/lib/llvm-6.0/bin  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7.3.0  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/8  
Found candidate GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/8.0.1  
Selected GCC installation: /usr/lib/gcc/x86\_64-linux-gnu/7.3.0  
Candidate multilib: .:/m64  
Selected multilib: .:/m64  
=====

## Base Unknown Flags

500.perlbench\_r: "-pgARRAY(0x8f270a0)  
502.gcc\_r: "-pgARRAY(0x8f3e330)  
505.mcf\_r: "-pgARRAY(0x8f28aa0)  
557.xz\_r: "-pgARRAY(0x8f3c5e0)

## Peak Unknown Flags

500.perlbench\_r: "-pgARRAY(0x8f270a0)  
502.gcc\_r: "-pgARRAY(0x8f3e330)  
505.mcf\_r: "-pgARRAY(0x8f28aa0)

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## Peak Unknown Flags (Continued)

557.xz\_r: "-pgARRAY(0x8f3c5e0)

## Base Compiler Invocation

C benchmarks (except as noted below):

clang

C++ benchmarks:

clang++

## Base Portability Flags

500.perlbench\_r: -DSPEC\_LINUX\_X64 -DSPEC\_LP64

502.gcc\_r: -DSPEC\_LP64

505.mcf\_r: -DSPEC\_LP64

520.omnetpp\_r: -DSPEC\_LP64

523.xalancbmk\_r: -DSPEC\_LINUX -DSPEC\_LP64

531.deepsjeng\_r: -DSPEC\_LP64

541.leela\_r: -DSPEC\_LP64

557.xz\_r: -DSPEC\_LP64

## Base Optimization Flags

C benchmarks:

500.perlbench\_r: -m64 -z muldefs -O3 -mavx

502.gcc\_r: Same as 500.perlbench\_r

505.mcf\_r: Same as 500.perlbench\_r

557.xz\_r: Same as 500.perlbench\_r

C++ benchmarks:

-m64 -O3 -mavx -z muldefs



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## Base Other Flags

C benchmarks (except as noted below):

-Wall

## Peak Compiler Invocation

C benchmarks (except as noted below):

clang

C++ benchmarks:

clang++

## Peak Portability Flags

Same as Base Portability Flags

## Peak Optimization Flags

C benchmarks:

500.perlbench\_r: -m64 -z muldefs -Ofast -mavx

502.gcc\_r: Same as 500.perlbench\_r

505.mcf\_r: Same as 500.perlbench\_r

557.xz\_r: Same as 500.perlbench\_r

C++ benchmarks:

-m64 -O3 -mavx

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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 v1.0.5 on 2019-04-06 20:07:47+0530.

Report generated on 2019-04-06 20:08:16 by CPU2017 PDF formatter v5866.