

SPEC® CPU2017 Integer Rate Result

Copyright 2017 Standard Performance Evaluation Corporation

My Corporation

SPECrate2017_int_base = 3.25

SPECrate2017_int_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

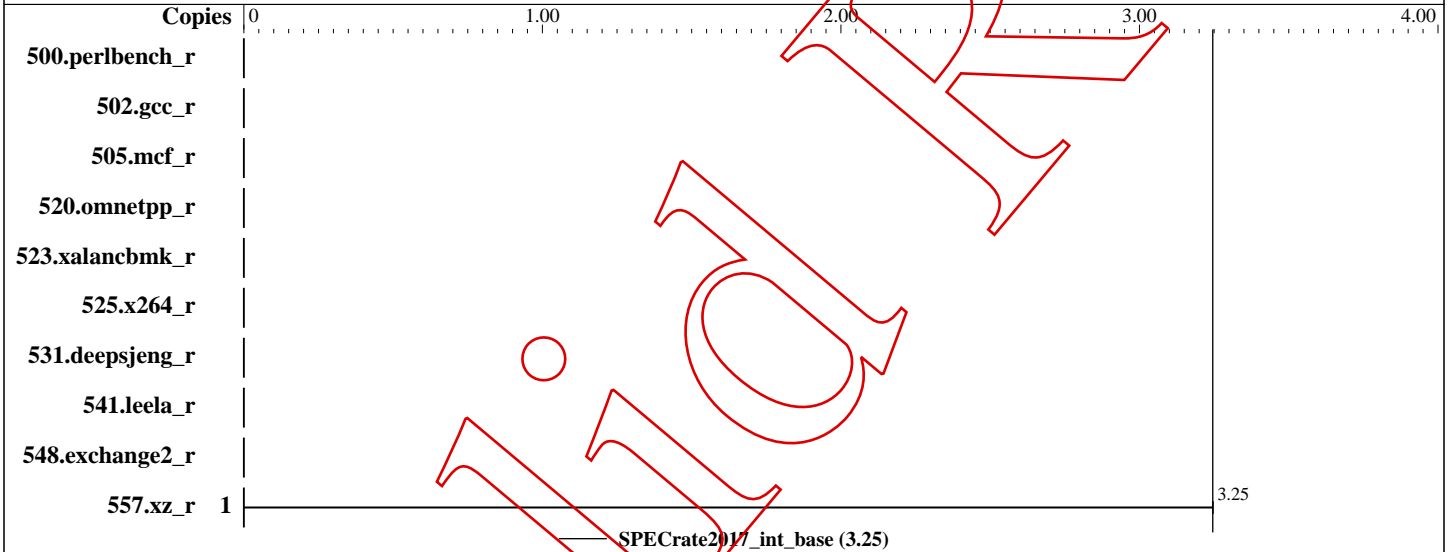
Test Sponsor: My Corporation

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
531.deepsjeng_r (base) did not have enough runs!
500.perlbench_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!
548.exchange2_r (base) did not have enough runs!
502.gcc_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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Errors (Continued)

541.leela_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 | Seconds | Ratio |
| 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 | 1 | 333 | 3.25 | 333 | 3.25 | <u>333</u> | <u>3.25</u> | | | | | | | | | |

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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-base-5.0-release/lib"

LIBRARY_PATH = "/mnt/freezedisk/llvm-intptr-base-5.0-release/lib"

PATH = "/mnt/freezedisk/llvm-intptr-base-5.0-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 Wed Nov 1 07:08:01 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: 3555.281

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: 7232 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  716G  176G  81% /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

=====
CC 557.xz_r(base)
=====

clang version 6.0.0 (<https://github.com/aqjune/clang-intptr.git>
b099f9b86954800bcbdee427fc703eb8a30389da)
(<https://github.com/aqjune/llvm-intptr.git>
d3762c4675cbe5178acef79f01c813bcbfc58cf5)
Target: x86_64-unknown-linux-gnu
Thread model: posix
InstalledDir: /mnt/freezedisk/llvm-intptr-base-5.0-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
=====

Base Runtime Environment

C benchmarks:

557.xz_r: No flags used

Base Compiler Invocation

C benchmarks:

557.xz_r: clang

Base Portability Flags

557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

(Continued on next page)

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Base Optimization Flags (Continued)

557.xz_r: -m64 -z muldefs -O3 -mavx

Base Other Flags

C benchmarks:

557.xz_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.

Tested with SPEC CPU2017 v1.0.2 on 2017-11-01 07:08:00-0400.

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