SPEC® CPU2017 Integer Rate Result

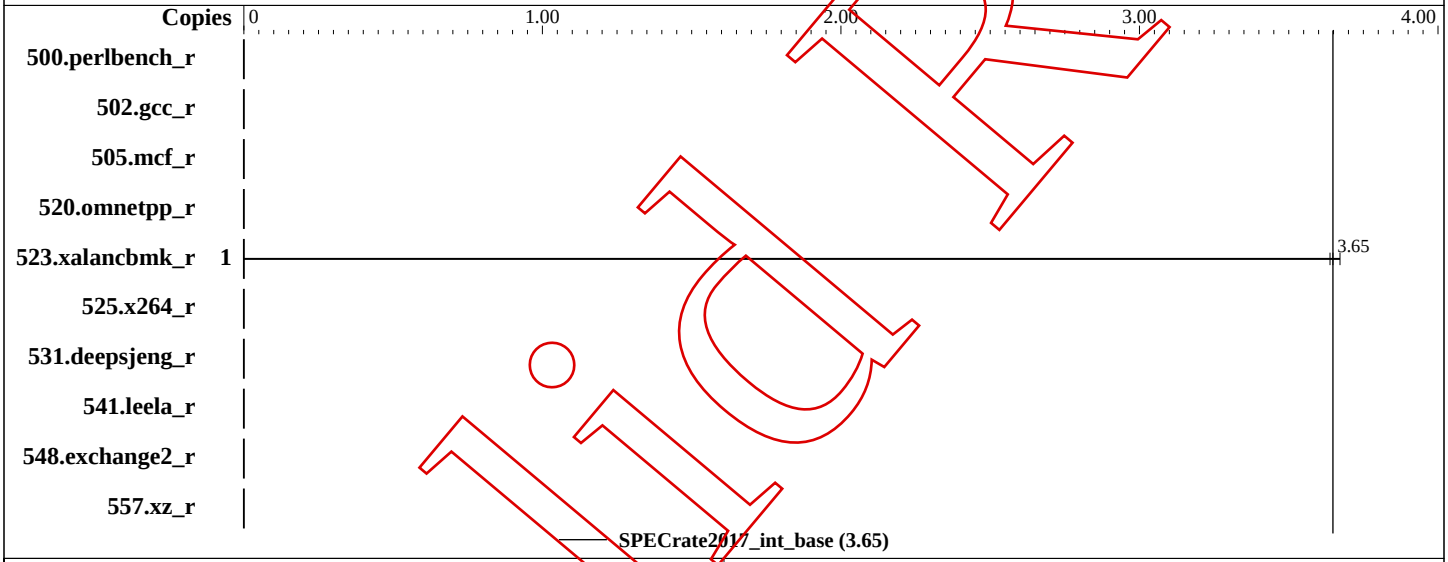
My Corporation

SPECrate2017_int_base = 3.65

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!
531.deepsjeng_r (base) did not have enough runs!
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!
502.gcc_r (base) did not have enough runs!
557.xz_r (base) did not have enough runs!
525.x264_r (base) did not have enough runs!

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Errors (Continued)

500.perlbench_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	1	290	3.64	288	3.67	**289**	**3.65**							
525.x264_r														
531.deepsjeng_r														
541.leela_r														
548.exchange2_r														
557.xz_r														

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SPECrate2017_int_peak = Not Run

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 06:02:02 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:               3371.484
     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
     aperfmperf 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: 7227 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)
```

Compiler Version Notes

```
==============================================================================
 CXXC 523.xalancbmk_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:

523.xalancbmk_r: No flags used

Base Compiler Invocation

C++ benchmarks:

523.xalancbmk_r: clang++

Base Portability Flags

523.xalancbmk_r: -DSPEC_LINUX -DSPEC_LP64

Base Optimization Flags

C++ benchmarks:

(Continued on next page)

Base Optimization Flags (Continued)

523.xalancbmk_r: `-m64 -O3 -mavx -z muldefs`

Base Other Flags

C++ benchmarks:

523.xalancbmk_r: `No flags used`

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

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