SPEC® CPU2017 Integer Rate Result

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 (541.leela_r missing)
Complete set of valid runs for peak rate unavailable (531.deepsjeng_r missing)
Complete set of valid runs for peak rate unavailable (548.exchange2_r missing)

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Errors (Continued)

Complete set of valid runs for peak rate unavailable (500.perlbench_r missing)
Complete set of valid runs for peak rate unavailable (520.omnetpp_r missing)
Complete set of valid runs for peak rate unavailable (523.xalancbmk_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)
Complete set of valid runs for peak rate unavailable (505.mcf_r missing)
Complete set of valid runs for peak rate unavailable (557.xz_r missing)
There is no set of valid runs with the same number of copies for base
'reportable' flag not set during run
541.leela_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!
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!
502.gcc_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!
557.xz_r (base) did not have enough runs!
541.leela_r (base) had invalid runs!
531.deepsjeng_r (base) had invalid runs!
548.exchange2_r (base) had invalid runs!
500.perlbench_r (base) had invalid runs!
520.omnetpp_r (base) had invalid runs!
523.xalancbmk_r (base) had invalid runs!
502.gcc_r (base) had invalid runs!
505.mcf_r (base) had invalid runs!
557.xz_r (base) had invalid runs!
541.leela_r (peak) did not have enough runs!
531.deepsjeng_r (peak) did not have enough runs!
548.exchange2_r (peak) did not have enough runs!
500.perlbench_r (peak) did not have enough runs!
520.omnetpp_r (peak) did not have enough runs!
523.xalancbmk_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!
505.mcf_r (peak) did not have enough runs!
557.xz_r (peak) did not have enough runs!
541.leela_r (peak) had invalid runs!
531.deepsjeng_r (peak) had invalid runs!

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Test Date: Apr-2019
Hardware Availability:
Software Availability:

Errors (Continued)

548.exchange2_r (peak) had invalid runs!
500.perlbench_r (peak) had invalid runs!
520.omnetpp_r (peak) had invalid runs!
523.xalancbmk_r (peak) had invalid runs!
502.gcc_r (peak) had invalid runs!
505.mcf_r (peak) had invalid runs!
557.xz_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	0.000572	0.00					1	0.000563	0.00				
502.gcc_r	1	0.000574	0.00					1	0.000572	0.00				
505.mcf_r	1	0.000569	0.00					1	0.000599	0.00				
520.omnetpp_r	1	0.000535	0.00					1	0.000570	0.00				
523.xalancbmk_r	1	0.000566	0.00					1	0.000539	0.00				

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

SPEC CPU2017 Integer Rate Result

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:

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	0.000602	0.00					1	0.000575	0.00				
541.leela_r	1	0.000596	0.00					1	0.000572	0.00				
548.exchange2_r	1	0.00	0.00					1	0.00	0.00				
557.xz_r	1	0.000616	0.00					1	0.000591	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/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/usr/games:/usr/local/games:/snap/bin:/usr/lib/jvm/java-8-oracle/bin:/usr/lib/jvm/java-8-oracle/db/bin:/usr/lib/jvm/java-8-oracle/jre/bin:/home/iiitd/Downloads/pintos/src/utils"

Platform Notes

```
 Sysinfo program /home/iiitd/Desktop/hw11/bin/sysinfo
 Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9
 running on iiit-d Sat Apr  6 20:06:03 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:             3603.773
      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
      aperfmperf 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 iiit-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/sda4      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 6.0.0-1ubuntu2 (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(0x8ca78a8)

502.gcc_r: "-pgARRAY(0x8c893a0)

505.mcf_r: "-pgARRAY(0x8ca5b00)

557.xz_r: "-pgARRAY(0x8c9e548)

Peak Unknown Flags

500.perlbench_r: "-pgARRAY(0x8ca78a8)

502.gcc_r: "-pgARRAY(0x8c893a0)

505.mcf_r: "-pgARRAY(0x8ca5b00)

(Continued on next page)

Peak Unknown Flags (Continued)

557.xz_r: "-pgARRAY(0x8c9e548)

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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Hardware Availability:
Software Availability:

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`

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

Tested with SPEC CPU2017 v1.0.5 on 2019-04-06 20:06:02+0530.
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