

SPEC® CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

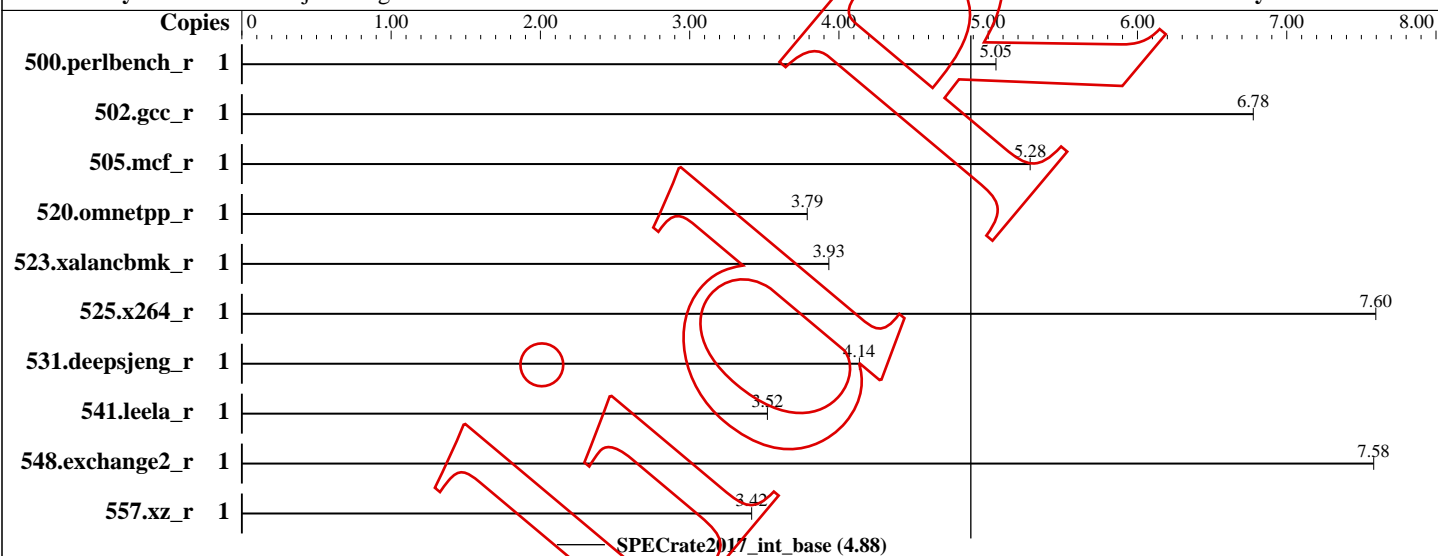
Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:



Hardware

CPU Name: Intel i5-8300H
Max MHz.: 4000
Nominal: 2300
Enabled: 4 cores, 1 chip, 2 threads/core
Orderable: --
Cache L1:
L2:
L3:
Other:
Memory: 7.701 GB fixme: If using DDR4, the format is:
'N GB (N x N GB nRxn PC4-nnnnX-X)'
Storage: 137 GB add more disk info here
Other:

Software

OS: Parrot GNU/Linux 4.8
5.4.0-3parrot1-amd64
Compiler: C/C++/Fortran: Version 9.2.1 20200123 of GCC, the
GNU Compiler Collection
Parallel: No
Firmware:
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:

Errors

'reportable' flag not set during run
500.perlbench_r (base) did not have enough runs!
505.mcf_r (base) did not have enough runs!
520.omnetpp_r (base) did not have enough runs!
557.xz_r (base) did not have enough runs!
502.gcc_r (base) did not have enough runs!
548.exchange2_r (base) did not have enough runs!
531.deepsjeng_r (base) did not have enough runs!
523.xalancbmk_r (base) did not have enough runs!
541.leela_r (base) did not have enough runs!
525.x264_r (base) did not have enough runs!

(Continued on next page)

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Errors (Continued)

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
500.perlbench_r	1	<u>315</u>	<u>5.05</u>									
502.gcc_r	1	<u>209</u>	<u>6.78</u>									
505.mcf_r	1	<u>306</u>	<u>5.28</u>									
520.omnetpp_r	1	<u>346</u>	<u>3.79</u>									
523.xalancbmk_r	1	<u>269</u>	<u>3.93</u>									
525.x264_r	1	<u>230</u>	<u>7.60</u>									
531.deepsjeng_r	1	<u>277</u>	<u>4.14</u>									
541.leela_r	1	<u>470</u>	<u>3.52</u>									
548.exchange2_r	1	<u>346</u>	<u>7.58</u>									
557.xz_r	1	<u>316</u>	<u>3.42</u>									

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

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

LD_LIBRARY_PATH = "/usr/lib64:/usr/lib:/lib64"

Platform Notes

Sysinfo program

/media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca/home/manavjeet/git/OS/Spec_OS/bin/sysinfo

Rev: r5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9
running on parrot Thu Feb 27 21:19:07 2020

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) i5-8300H CPU @ 2.30GHz

1 "physical id"s (chips)

(Continued on next page)

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Platform Notes (Continued)

8 "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 : 8
physical 0: cores 0 1 2 3

From lscpu:

Architecture: x86_64
CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian
Address sizes: 39 bits physical, 48 bits virtual
CPU(s): 8
On-line CPU(s) list: 0-7
Thread(s) per core: 2
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) i5-8300H CPU @ 2.30GHz
Stepping: 10
CPU MHz: 899.987
CPU max MHz: 4000.0000
CPU min MHz: 800.0000
BogoMIPS: 4599.93
Virtualization: VT-x
L1d cache: 128 KiB
L1i cache: 128 KiB
L2 cache: 1 MiB
L3 cache: 8 MiB
NUMA node0 CPU(s): 0-7
Vulnerability Itlb multihit: KVM: Mitigation: Split huge pages
Vulnerability L1tf: Mitigation; PTE Inversion; VMX conditional cache flushes; SMT vulnerable
Vulnerability Mds: Mitigation; Clear CPU buffers; SMT vulnerable
Vulnerability Meltdown: Mitigation; PTI
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Full generic retpoline, IBPB conditional, IBRS_FW, STIBP conditional, RSB filling
Vulnerability Tsx async abort: Not affected
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

(Continued on next page)

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Platform Notes (Continued)

pdpe1gb rdtscp lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology
nonstop_tsc cpuid aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx 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 vmx flexpriority ept vpid ept_ad fsgsbase
tsc_adjust bmi1 avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_pt
xsaveopt xsavec xgetbv1 xsaves dtherm ida arat pln pts hwp hwp_notify hwp_act_window
hwp_epp md_clear flush_lld

/proc/cpuinfo cache data
cache size : 8192 KB

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

From /proc/meminfo
MemTotal: 8074596 kB
HugePages_Total: 0
Hugepagesize: 2048 kB

/usr/bin/lsb_release -d
Parrot GNU/Linux 4.8

From /etc/*release* /etc/*version*
debian_version: parrot
os-release:
PRETTY_NAME="Parrot GNU/Linux 4.8"
NAME="Parrot GNU/Linux"
ID=parrot
ID_LIKE=debian
VERSION="4.8"
VERSION_ID="4.8"
HOME_URL="https://www.parrotlinux.org/"
SUPPORT_URL="https://community.parrotlinux.org/"

uname -a:
Linux parrot 5.4.0-3parrot1-amd64 #1 SMP Parrot 5.4.13-3parrot2 (2020-02-01) x86_64
GNU/Linux

Kernel self-reported vulnerability status:

CVE-2017-5754 (Meltdown): Mitigation: PTI
CVE-2017-5753 (Spectre variant 1): Mitigation: usercopy/swaps barriers and __user
pointer sanitization
CVE-2017-5715 (Spectre variant 2): Mitigation: Full generic retpoline, IBPB: conditional,
IBRS_FW, STIBP: conditional, RSB filling

(Continued on next page)

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Platform Notes (Continued)

run-level 5 Feb 27 21:14

SPEC is set to:

/media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca/home/manavjeet/git/OS/Spec_OS

Filesystem	Type	Size	Used	Avail	Use%	Mounted on
------------	------	------	------	-------	------	------------

/dev/sda4	ext4	137G	98G	33G	76%	
-----------	------	------	-----	-----	-----	--

/media/pheonix/d630b300-6092-41db-bf6a-dd1bd0f42bca						
---	--	--	--	--	--	--

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

FC 548.exchange2_r(base)

Using built-in specs

COLLECT_GCC=/usr/bin/gfortran

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:hsa

OFFLOAD_TARGET_DEFAULT=1

Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Debian 9.2.1-28'

--with-bugurl=file:///usr/share/doc/gcc-9/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2

--prefix=/usr --with-gcc-major-version-only --program-suffix=-9

--program-prefix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id

--libexecdir=/usr/lib --without-included-gettext --enable-threads=posix

--libdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=gnu

--enable-libstdcxx-debug --enable-libstdcxx-time=yes

--with-default-libstdcxx-abi=new --enable-gnu-unique-object

--disable-vtable-verify --enable-plugin --enable-default-pie

--with-system-zlib --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --with-arch-32=i686 --with-abi=m64

--with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic

--enable-offload-targets=nvptx-none,hsa --without-cuda-driver

--enable-checking=release --build=x86_64-linux-gnu --host=x86_64-linux-gnu

--target=x86_64-linux-gnu --with-build-config=bootstrap-lto-lean

--enable-link-mutex

Thread model: posix

gcc version 9.2.1 20200203 (Debian 9.2.1-28)

(Continued on next page)

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Compiler Version Notes (Continued)

```
=====
CC 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base)
557.xz_r(base)
=====
```

clang version 8.0.1-7 (tags/RELEASE_801/final)

Target: x86_64-pc-linux-gnu

Thread model: posix

InstalledDir: /usr/bin

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/10

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/8

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/9

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/10

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/8

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/9

Selected GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/9

Candidate multilib: .;@m64

Candidate multilib: 32;@m32

Candidate multilib: x32;@mx32

Selected multilib: .;@m64

```
=====
CXXC 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base)
541.leela_r(base)
=====
```

clang version 8.0.1-7 (tags/RELEASE_801/final)

Target: x86_64-pc-linux-gnu

Thread model: posix

InstalledDir: /usr/bin

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/10

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/8

Found candidate GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/9

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/10

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/8

Found candidate GCC installation: /usr/lib/gcc/x86_64-linux-gnu/9

Selected GCC installation: /usr/bin/../lib/gcc/x86_64-linux-gnu/9

Candidate multilib: .;@m64

Candidate multilib: 32;@m32

Candidate multilib: x32;@mx32

Selected multilib: .;@m64

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

Base Unknown Flags

```
500.perlbench_r: "/usr/bin/clang -std=c99 -m64ARRAY(0x7eb19e8)
"/usr/bin/clang -std=c99 -m64ARRAY(0x7ea9fb0)
"-g -O3ARRAY(0x7e19108)

502.gcc_r: "/usr/bin/clang -std=c99 -m64ARRAY(0x7ed1890)
"/usr/bin/clang -std=c99 -m64ARRAY(0x7eb18e0)
"-g -O3ARRAY(0x7ec25c8)

505.mcf_r: "/usr/bin/clang -std=c99 -m64ARRAY(0x7e85168)
"/usr/bin/clang -std=c99 -m64ARRAY(0x7e7e728)
"-g -O3ARRAY(0x7ffbe98)

520.omnetpp_r: "/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7e92128)
"/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7ec2508)
"-g -O3ARRAY(0x7ffd828)

523.xalancbmk_r: "/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7ea4f58)
"/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7ffc648)
"-g -O3ARRAY(0x7ffebe8)

525.x264_r: "/usr/bin/clang -std=c99 -m64ARRAY(0x7eac0b0)
"/usr/bin/clang -std=c99 -m64ARRAY(0x7ffd240)
"-g -O3ARRAY(0x7fff950)

531.deepsjeng_r: "/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7e8cc20)
"/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7ffdc90)
"-g -O3ARRAY(0x8052a28)

541.leela_r: "/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7ffb108)
"/usr/bin/clang++ -std=c++03 -m64ARRAY(0x7f797d0)
"-g -O3ARRAY(0x7f7cc50)

557.xz_r: "/usr/bin/clang -std=c99 -m64ARRAY(0x7ef92e0)
"/usr/bin/clang -std=c99 -m64ARRAY(0x804f758)
"-g -O3ARRAY(0x804f440)
```

Base Compiler Invocation

Fortran benchmarks:
gfortran

SPEC CPU2017 Integer Rate Result

Copyright 2017-2020 Standard Performance Evaluation Corporation

ASUS corp.

SPECrate2017_int_base = 4.88

SPECrate2017_int_peak = Not Run

CPU2017 License: --

Test Sponsor: ASUS corp.

Tested by: Manavjeet Singh

Test Date: Feb-2020

Hardware Availability:

Software Availability:

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
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-march=native -fno-unsafe-math-optimizations -fno-strict-aliasing
-fgnu89-inline

C++ benchmarks:

-march=native -fno-unsafe-math-optimizations

Fortran benchmarks:

-m64 -g -O3 -march=native -fno-unsafe-math-optimizations

SPEC is a registered trademark of the Standard Performance Evaluation Corporation. All other brand and product names appearing in this result are trademarks or registered trademarks of their respective holders.

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 2020-02-27 21:19:06+0530.

Report generated on 2020-02-27 22:15:54 by CPU2017 PDF formatter v5866.