

Errors

548.exchange2_r (base) did not have enough runs! 531.deepsjeng_r (base) did not have enough runs!

'reportable' flag not set during run

523.xalancbmk_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!

525.x264 r (base) did not have enough runs!

541.leela_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!

502.gcc r (base) did not have enough runs!

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ASUS corp.

SPECrate2017_int_base = 4.69

SPECrate2017_int_peak

Not Run
Feb-2020

CPU2017 License: --

Test Sponsor: ASUS corp. **Tested by:** Manayjeet Singh

Test Date: Hardware Availability: Software Availability:

Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r	1	<u>296</u>	<u>5.39</u>							1				
502.gcc_r	1	<u>206</u>	<u>6.88</u>											
505.mcf_r	1	<u>316</u>	<u>5.11</u>)/					
520.omnetpp_r	1	<u>395</u>	3.32						· ·					
$523.xalancbmk_r$	1	<u>317</u>	<u>3.33</u>				//							
525.x264_r	1	<u>356</u>	<u>4.92</u>			((7						
531.deepsjeng_r	1	<u>282</u>	<u>4.07</u>					\mathcal{M}						
541.leela_r	1	<u>449</u>	<u>3.69</u>)	\wedge			7)						
548.exchange2_r	1	<u>251</u>	10.4/											
557.xz_r	1	<u>338</u>	3/20		V \									
CDEC4-	2017 : 4		4.60	$\overline{}$	<u> </u>	$\overline{}$	<i>^</i>		I		I			

SPECrate2017_int_base =

4.69

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 runcou before the start of the run: LD_LIBRARY_PATH = "/dsr/lib64":/usr/lib64"

Platform Notes

Sysinfo program

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

Rev: n5974 of 2018-05-19 9bcde8f2999c33d61f64985e45859ea9

running on parrot Thu Feb 27 12:24:56 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 / mame : Intel(R) Core(TM) i5-8300H CPU @ 2.30GHz

1 "physical id"s (chips)

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:

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-- Test Date: Feb-2020
ASUS corp. Hardware Availability:

Test Sponsor: ASUS corp. **Tested by:** Manavjeet Singh

Software Availability:

```
Platform Notes (Continued)
```

```
Architecture:
                                   x86_64
CPU op-mode(s):
                                   32-bit, 64-bit
Byte Order:
                                   Little Endian
Address sizes:
                                   30
                                      bits physical, 48
                                                         bits virtual
CPU(s):
On-line CPU(s) list:
                                   Ò.
Thread(s) per core:
                                   2
Core(s) per socket:
                                   4
Socket(s):
                                   1
                                   1
NUMA node(s):
                                   GenuineIntel
Vendor ID:
CPU family:
Model:
Model name:
                                   Intel(R) Core(TM) i5-8300H CPU @ 2.30GHz
Stepping:
                                   10
```

CPU MHz:

CPU max MHz:

CPU min MHz:

BogoMIPS:

Virtualization:

Lld cache:

Lli cache:

Lli cache:

Lli cache:

Lli cache:
L2 cache:
L3 cache:
NUMA node@ CPU(s):
Vulnerability Itll multihit:

L18 KiB
1 MiB
0-7

KVM: Mi

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

Yulmerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via

prctl and secomp

Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user

pointer sanitization

Wulneradizity Spectre v2: Mitigation; Full generic retpoline, IBPB

conditional, IBRS_FW, STIBP conditional, RSB filling

Wulnerability Tsx async abort: Not affected

fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pgr 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 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 vnmi 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_11d

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SPECrate2017_int_base = 4.69

SPECrate2017_int_peak Not Run

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Test Date: Feb-2020

Test Sponsor: ASUS corp. **Tested by:** Manavjeet Singh

Hardware Availability: Software Availability:

Platform Notes (Continued)

```
/proc/cpuinfo cache data
   cache size : 8192 KB
                                             'node' might or might not correspond to a
From numactl --hardware WARNING: a numactl
physical chip.
From /proc/meminfo
                    8074588 kB
  MemTotal:
   HugePages_Total:
                          0
                       2048 kB
   Hugepagesize:
/usr/bin/lsb_release -d
   Parrot GNU/Linux 4.8
From /etc/*release* /etc/*version*
   debian_version: parrot
   os-release:
      PRETTY_NAME="Parrox GNU/linux
      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
Kerner self-reported vulnerability status:
CVE-2017-5754 (Meltdown):
                                   Mitigation: PTI
CVE-2017-5753 (Spectre variant 1): Mitigation: usercopy/swapgs barriers and __user
pointer sanitization
CVE-2017-5775 (Spectre variant 2): Mitigation: Full generic retpoline, IBPB: conditional,
IBRS_FW, STIBP: conditional, RSB filling
run-level 5 Feb 25 15:47
```

(Continued on next page)

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

34G 75%

Type Size Used Avail Use% Mounted on

97G

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

ext4 137G

SPEC is set to:

Filesystem /dev/sda4

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Tested by:

ASUS corp. Manavjeet Singh Test Date: Feb-2020

Hardware Availability: Software Availability:

Platform Notes (Continued)

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 520.omnetpp_r(base) 523.xalancomk
                                      r(base) 531
                                                  deepsjeng_r(base)
     541.leela_r(base)
   ______
Using built-in specs.
COLLECT_GCC=/usr/bin/g++
COLLECT LTO WRAPPER=/usr/lib/qcc/x86 64-linx-qnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86 64-linux-qnu
Configured with: ../src/configure -- with-pkgversion='Debian 9.2.1-28'
  --with-bugurl=file ///usr/share doc/gcc-9/README.Bugs
  --enable-language d, ada, c++, go, brig, d, fortran, objc, obj-c++, gm2
  --prefix=/usr --with gcc-major-rersion-only --program-suffix=-9
  --program-pref1x=x86 4-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-auto --enable-objc-gc-auto
  --enable multiarch/--disable-werror --with-arch-32=i686 --with-abi=m64
  --with-multilib-11st=m32,m64,mx32 --enable-multilib --with-tune=generic
  enable-offload-targets=nvptx-none,hsa --without-cuda-driver
  --erable-check/ng=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)
______
CC 500.perlbench_r(base)
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
COLLECT LTO WRAPPER=/usr/lib/qcc/x86 64-linux-qnu/9/lto-wrapper
```

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SPECrate2017_int_base = 4.69

SPECrate2017_int_peak Not Run

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Tested by:

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Manayjeet Singh

Test Date: Feb-2020 Hardware Availability:

Software Availability:

Compiler Version Notes (Continued)

```
OFFLOAD_TARGET_NAMES=nvptx-none:hsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Debian 2.2.1-25'
  --with-bugurl=file:///usr/share/doc/gdc-9/README.Bugs
  --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c+4,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,m32 -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 20200123 (Debian 9.2.1-25)
                        ______
CC 502.gcc_r/base) 505 mcf_r(base) 525.x264_r(base) 557.xz_r(base)
Using built in specs.
COLLECT_GCC=/usx/bin/gcc
COLLECT_ITO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=Avptx-none:hsa
QFFLOAD_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
  --anable-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
```

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SPECrate 2017 int peak **∜**ot Run

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Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

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

FC 548.exchange2_r(base)

Using built-in specs.

COLLECT_GCC=/usr/bin/gfortran

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86 64-Ninux-gnu/9/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx/none hsa

OFFLOAD_TARGET_DEFAULT=1 Target: x86_64-linux-gnu

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

--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-ma/for-version-only --program-suffix=-9

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

--libexecdir=/usr//16 --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)

Base Compiler Invocation

C benchmarks:

qcc

C++ benchmarks:

q++

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Base Compiler Invocation (Continued)

Fortran benchmarks:

qfortran

Tested by:

Base Portability Flags

500.perlbench_r: -DSPEC_LINUX_X64 -DSPEC_LP64

502.gcc_r: -DSPEC_LP64 505.mcf_r: -DSPEC_LP64

523.xalancbmk_r: -DSPEC_LINUX -DSREC LP

520.omnetpp_r: -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:

-m64 -std=c99 --03 -march=native -fno-unsafe-math-optimizations -fno-tree-loop-vectorize fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

-m64 -std-g++03 -g -03 -march=native -fno-unsafe-math-optimizations fno-tree/loop vectorize

Fortran benchmarks:

-m64 -g -03 -march native -fno-unsafe-math-optimizations fno tree-loop-vectorize

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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 v1.0.5 on 2020-02-27 12:24:55+0530.

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