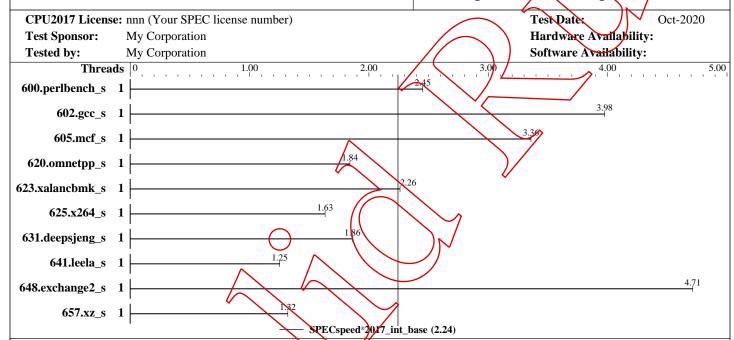
# SPEC CPU®2017 Integer Speed Result Copyright 2017-2020 Standard Performance Evaluation Corporation



SPECspeed®2017\_int\_base =

SPECspeed®2017\_int\_peak 7 Not Run



Hardware

CPU Name: Intel Xeon Bronze 3106

Max MHz:

Nominal:

Enabled: cores, 1 chip, threads/core

Orderable:

Cache L1:

L2:

L3:

Other:

Memory: 78.334 GB fixme: If using DDR4, the format is:

'N GB (N x N GB nRxn PC4-nnnnX-X)'

6.9 TB add more disk info here

Storage: Other: Software

4.15.0-70-generic

Compiler: C/C++/Fortran: Version 7.2.1 of GCC, the

Ubuntu 18.04.3 LTS

**GNU** Compiler Collection

Parallel: Yes

Firmware:

OS:

File System: nfs

System State: Run level 5 (add definition here)

Base Pointers: 64-bit

Peak Pointers: Not Applicable

Other:

Power Management: --

#### **Errors**

Standard Performance Evaluation Corporation (info@spec.org)

'reportable' flag not set during run

623.xalancbmk\_s (base) did not have enough runs!

648.exchange2\_s (base) did not have enough runs!

641.leela\_s (base) did not have enough runs!

657.xz\_s (base) did not have enough runs!

620.omnetpp\_s (base) did not have enough runs!

602.gcc\_s (base) did not have enough runs!

625.x264\_s (base) did not have enough runs!

600.perlbench\_s (base) did not have enough runs!

605.mcf\_s (base) did not have enough runs!

631.deepsjeng s (base) did not have enough runs!

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Test Date: Oct-2020 Hardware Availability:

Software Availability:

Results Table

							~	<b>\</b>	/		/			
	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	1	<u>724</u>	<u>2.45</u>							1				
602.gcc_s	1	<u>1002</u>	<u>3.98</u>											
605.mcf_s	1	<u>1406</u>	<u>3.36</u>						)/					
620.omnetpp_s	1	<u>886</u>	<u>1.84</u>						<b>V</b>					
623.xalancbmk_s	1	<u>627</u>	<u>2.26</u>											
625.x264_s	1	<u>1080</u>	<u>1.63</u>					$\searrow$						
631.deepsjeng_s	1	<u>770</u>	<u>1.86</u>											
641.leela_s	1	<u>1362</u>	<u>1.25</u>	)	_			ノバ						
648.exchange2_s	1	<u>624</u>	4.71											
657.xz_s	1	<u>4681</u>	1,32											
CDEC	100045		-17	_		<i>\</i>			-					

SPECspeed®2017\_int\_base =

Not Run

SPECspeed®2017\_int\_peak =

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

#### **Environment Variables Notes**

Environment variables set by runcpu before the start of the run: LD\_LIBRARY\_PATH = "/wsr/lib64/:/usr/lib64"

#### **Platform Notes**

Sysinfo program /u/home/schmidtf/spec/bin/sysinfo

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on skamal Tue Oct 13 13:37:17 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) Xeon(R) Bronze 3106 CPU @ 1.70GHz

1 "physical id"s (chips)

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 : 8

siblings : 8

physical 0: cores 0 1 2 3 4 5 6 7

From lscpu:

Architecture: x86\_64

(Continued on next page)

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Test Date: Oct-2020

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

CPU op-mode(s): 32-bit, 64-bit
Byte Order: Little Endian

CPU(s): 8
On-line CPU(s) list: 0-7
Thread(s) per core: 1
Core(s) per socket: 8
Socket(s): 1
NUMA node(s): 1
Vendor ID: Gen

Vendor ID: GenuineIntel

CPU family: 6 (Model: 85

Model name: Intel(R) Xeon(R) Bronze 3106 CPU @ 1.70GHz

Stepping: 4
CPU MHz: 1700.001
CPU max MHz: 1700.0000
CPU min MHz: 800.0000
BogoMIPS: 3400.00

Virtualization: VT X
L1d cache: 32K
L1i cache: 1024K
L2 cache: 11264K
NUMA node0 CFO(s): 0-7

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 pni pclmulqdq dtes64 monitor ds\_cpl vmx smx est tm2 ssse3 sdbg fma cx16 xtpr pdcm pcid dca sse4\_1 sse4\_2 x2apic movbe popcnt tsc\_deadline\_timer aes xsave avx f16c xdrand lahf\_lm abm 3dnowprefetch cpuid\_fault epb cat\_13 cdp\_13 invocid\_single pti intel\_ppin ssbd mba ibrs ibpb stibp tpr\_shadow vnmi flexpriority ept vpid fsqsbase tsc\_adjust bmi1 hle avx2 smep bmi2 erms invocid rtm cqm mpx rdt\_a avx512f avx512dq rdseed adx smap clflushopt clwb intel\_pt avx512cd avx512bw avx512vl xsaveopt xsavec xgetbv1 xsaves cqm\_llc cqm\_occup\_llc cqm\_mbm\_total cqm\_mbm\_local dtherm arat pln pts hwp hwp\_act\_window hwp\_pkg\_req pku ospke md\_clear flush\_lld

/proc/cpuinfo cache data cache size : 11264 KB

From number --hardware WARNING: a number of might or might not correspond to a physical chip.

From /proc/meminfo

MemTotal: 82139464 kB HugePages\_Total: 0 Hugepagesize: 2048 kB

/usr/bin/lsb\_release -d

(Continued on next page)

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#### Platform Notes (Continued)

```
Ubuntu 18.04.3 LTS
From /etc/*release* /etc/*version*
   debian_version: buster/sid
   os-release:
      NAME="Ubuntu"
      VERSION="18.04.3 LTS (Bionic Beaver)
      ID=ubuntu
      ID_LIKE=debian
      PRETTY_NAME="Ubuntu 18.04.
      VERSION_ID="18.04"
      HOME URL="https://www.ubuntu.com/
      SUPPORT_URL="https://help.ub/mtu.com/
uname -a:
  Linux sksmall 4.15.0-70-generic #79-Ubuntu SMP Tue Nov 12 10:36:11 UTC 2019 x86_64
   x86_64 x86_64 GNU/Linux
Kernel self-reported vulnerability status:
itlb_multihit:
                                           KVM: Mitigation: Split huge pages
CVE-2018-3620 (L1 Terminal
                                           Mitigation: PTE Inversion; VMX: conditional
                                           cache flushes, SMT disabled
Microarchitectural Data Sample
                                           Mitigation: Clear CPU buffers; SMT disabled
CVE-2017-5754 (Meltdown):
                                           Mitigation: PTI
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled
                                           via prctl and seccomp
CVE-2017-5753 (Spectre variant 1):
                                         Mitigation: usercopy/swapgs barriers and __user
                                          pointer sanitization
CVE-2017
              (Spectre variant 2):
                                          Mitigation: Full generic retpoline, IBPB:
                                          conditional, IBRS_FW, STIBP: disabled, RSB
                                          filling
tsx_async_abort:
                                          Mitigation: Clear CPU buffers; SMT disabled
                28 09:46
run-level 5 No
SPEC is set to: /u/home/schmidtf/spec
   Filesystem
                                                    Type
                                                          Size Used Avail Use% Mounted
   nasil10.informatik.tu-muenchen.de:/srv/il10/home nfs
                                                          6.9T 4.2T 2.4T 64% /u/home
From /sys/devices/virtual/dmi/id
    BIOS:
            HPE U32 11/13/2019
    Vendor: HPE
    Product: ProLiant DL360 Gen10
    Product Family: ProLiant
```

(Continued on next page)

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Test Date: Oct-2020 Hardware Availability:

Hardware Availability: Software Availability:

#### Platform Notes (Continued)

Cannot run dmidecode; consider saying (as root)
 chmod +s /usr/sbin/dmidecode

(End of data from sysinfo program)

#### Compiler Version Notes

```
600.perlbench_s(base) 602.gcc_s(base) 605 mcf_s(base)
        625.x264 s(base) 657.xz s(base)
Using built-in specs.
COLLECT GCC=/usr/bin/qcc
COLLECT_LTO_WRAPPER=/usr/1ib/gcc/x86_64-linux-gnu/7/1to-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v -with-pkgversion='Ubuntu
 7.5.0-3ubuntu1~18.04' (-with bugurl=1/1e:///usr/share/doc/gcc-7/README.Bugs
  --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr
 --with-gcc-major-version-only -program-suffix=-7
  --program-prefix=286 64-linux-ghu- --enable-shared --enable-linker-build-id
  --libexecdir=/usr/lld --without/included-gettext --enable-threads=posix
  --libdir=/usr/Nib --anable-nls --enable-bootstrap --enable-clocale=gnu
  --enable-libstdcxx-debug --enable-libstdcxx-time=yes
  --with-default-libstdcx-abi=new --enable-gnu-unique-object
  --disable-vtable-verify --enable-libmpx --enable-plugin
  --enable-default-pie --with-system-zlib --with-target-system-zlib
  --enable-objc-gc=auto --enable-multiarch --disable-werror
  --with-arch-32=i686,--with-abi=m64 --with-multilib-list=m32,m64,mx32
  --enable multillb /-with-tune=generic --enable-offload-targets=nvptx-none
  --without-suda-driver --enable-checking=release --build=x86_64-linux-gnu
  - host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)
          4-----
         620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)
         641.leela s(base)
Using built-in specs.
COLLECT GCC=/usr/bin/q++
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/7/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none
OFFLOAD TARGET DEFAULT=1
```

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#### Compiler Version Notes (Continued)

```
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion=\Ubuntu
 7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/goc//README.Bugs
  --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++-prefix=/usr
  --with-gcc-major-version-only --program suffix=-7
  --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-pootstrap --enable-clocale=gnu
 --enable-libstdcxx-debug --enable-libstdcxx-time-yes/
  --with-default-libstdcxx-abi=new --enable-gnu-unique-object
 --disable-vtable-verify --enable-libmpx \-enable-plugin
  --enable-default-pie --with-system-zlib -with-target-system-zlib
  --enable-objc-gc=auto --enable-mu/ciarch --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
  --without-cuda-driver --enable checking=release --build=x86_64-linux-gnu
  --host=x86_64-linux-gnu --target=x86_64-14nux-gnu
Thread model: posix
gcc version 7.5.0 (Ubunty 7.5.0-Subunty 1/18.04)
Fortran 648.exchange2_s(base)
Using built-in specs.
COLLECT_GCC=/wsr/bin/gfortran
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/7/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx none
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-lihux-gnu
Configured with: .. /s/c/configure -v --with-pkgversion='Ubuntu
 7.5 @ 3ubuntul~18,04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs
  -enable languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr
  --with-gcc_major-version-only --program-suffix=-7
  -program-prefix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id
  --Libexecdix // 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-libmpx --enable-plugin
  --enable-default-pie --with-system-zlib --with-target-system-zlib
  --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
  --without-cuda-driver --enable-checking=release --build=x86_64-linux-gnu
  --host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
```

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SPECspeed®2017\_int\_peak 7 Not Run

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Test Date: Oct-2020

Hardware Availability: Software Availability:

#### Compiler Version Notes (Continued)

gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)

------

### **Base Compiler Invocation**

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

qfortran

#### **Base Portability Flags**

600.perlbench\_s: -DSPEC\_LINUX\_X64//-DSPEC\_LP64

602.gcc\_s: -DSPEC\_LP64

605.mcf\_s: -DSPEC\_LP64

620.omnetpp\_s: -DSPEC\_LP64

623.xalancbmk\_s: -DSPEC\_LINVX -DSPEC\_LP64

625.x264\_s: -DSPEQ\_LP64

631.deepsjeng\_s: -DSPEC\_LP64

641.leela\_s: -DSPEC\_LP64

648.exchange2\_s: -DSPEC\_LP64

657.xz\_s: -DSPES\_LP64

### **Base Optimization Flags**

#### C benchmarks:

- -m64 std=c99 -g -O3 -DSPEC\_SUPPRESS\_OPENMP -march=native
- -fno-unsafe/math-optimizations -fno-tree-loop-vectorize -fno-openmp
- -fno-stript-aliasing -fgnu89-inline

#### C++ benchmarks:

- -m64 -std=c++03 -g -O3 -DSPEC\_SUPPRESS\_OPENMP -march=native
- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

#### Fortran benchmarks:

- -m64 -DSPEC\_SUPPRESS\_OPENMP -g -O3 -march=native
- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fno-openmp

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SPECspeed®2017\_int\_base =

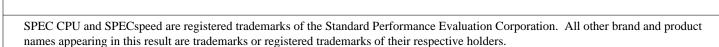
SPECspeed®2017\_int\_peak Not Run

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Test Date: Oct-2020

Hardware Availability: Software Availability:



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

Tested with SPEC CPU\*2017 v1.1.0 on 2020-10-13 13:37:16+0000.

Report generated on 2020-10-13 17:22:08 by CPU2017 PDF formatter v6255.