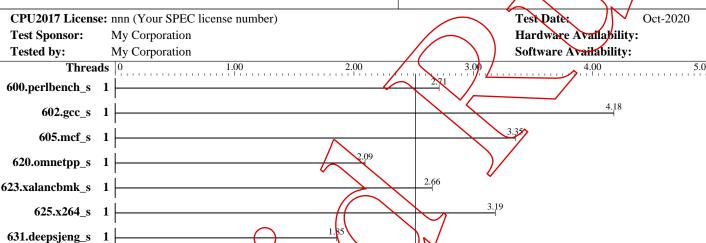


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SPECspeed®2017_int_base =

SPECspeed®2017_int_peak > Not Run



Hardware

CPU Name: Intel Xeon Bronze 3106

641.leela_s 1

657.xz_s 1

648.exchange2_s 1

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)'

Storage: 6.9 TB add more disk info here

Pther:

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

3.77

Parallel: Yes

Firmware:

SPECspeed®2017_int_base (2.52)

OS:

File System: nfs

System State: Run level 5 (add definition here)

Base Pointers: 64-bit

Peak Pointers: Not Applicable

Other:

Power Management: --

Errors

'reportable' flag not set during run

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

600.perlbench_s (base) did not have enough runs!

657.xz_s (base) did not have enough runs!

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

631.deepsjeng_s (base) did not have enough runs!

641.leela_s (base) did not have enough runs!

620.omnetpp_s (base) did not have enough runs!

623.xalancbmk_s (base) did not have enough runs!

602.gcc_s (base) did not have enough runs!

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

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SPECspeed®2017_int_base

SPECspeed®2017 int **Mot Run**

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Test Date: Oct-2020 Hardware Availability: Software Availability:

Results Table

	Base								Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	
600.perlbench_s	1	<u>654</u>	<u>2.71</u>					`		n					
602.gcc_s	1	<u>953</u>	<u>4.18</u>			\wedge									
605.mcf_s	1	<u>1409</u>	<u>3.35</u>)/						
620.omnetpp_s	1	<u>779</u>	2.09						V						
623.xalancbmk_s	1	<u>533</u>	<u>2.66</u>												
625.x264_s	1	<u>554</u>	<u>3.19</u>			((\searrow							
631.deepsjeng_s	1	<u>773</u>	<u>1.85</u>												
641.leela_s	1	<u>1045</u>	<u>1.63</u>		_			ノバ							
648.exchange2_s	1	<u>780</u>	3.77												
657.xz_s	1	<u>4665</u>	1,33												

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 = "/vsr/lib64/:/usr/lib64"

Platform Notes

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

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on skamal Thu Oct 15 02:54:46 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/couinfo

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

"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

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SPECspeed®2017_int_base

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Software Availability:

Platform Notes (Continued)

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

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

GenuineIntel Vendor ID:

CPU family: 6 85 Model:

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

1700.014

Stepping: CPU MHz:

1700.0000 CPU max MHz: CPU min MHz: 800.0000 BogoMIPS: 3400.00

Virtualization: $\nabla T - x$ Lld cache: 32K 321 Lli cache: L2 cache: 1024K 11264K L3 cache: NUMA node0 CPU(s)

vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush ats 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 se4_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 ﴿pt vpid fàgsbasِ tsc_adjust bmil hle avx2 smep bmi2 erms invpcid rtm cqm mpx rdt_a ₩x51xf avx51xdq 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_l1d

/proc/cpuinfo cache data cache size : 11264 KB

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

From /proc/meminfo

MemTotal: 82139464 kB HugePages_Total: Ω 2048 kB Hugepagesize:

/usr/bin/lsb_release -d

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Software Availability:

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 Sampl
                                           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
```

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SPECspeed®2017_int_peak 7 Not Run

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Platform Notes (Continued)

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

(End of data from sysinfo program)

Compiler Version Notes

```
:==\=A==========
       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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SPECspeed®2017_int_base >

SPECspeed®2017 int peak Not Run

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Software Availability:

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.exchange 2
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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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: -static(*) -DSPEC_LINUX_x64 -DSPEC_LP64

602.gcc_s: -static(*) -DSPEC_LP64

605.mcf_s: -static(*) -DSREC_LP64

620.omnetpp_s: -static(*) -DSPEC_LP64

623.xalancbmk_s: -static(*) \DSPEC_LINUX -DSPEC_LP64

625.x264_s: -static(*) -DSPEC_LP64

631.deepsjeng_s: -static(*) -DSPEC_LP64

641.leela_s: -static(*) -DSPEC_1P64

648.exchange2_s: -static(*) -DSPEC_LP64

657.xz_s: -static(*) -DSPEC_LP64

(*) Indicates a portability flag that was found in a non-portability variable.

Base Optimization Flags

C benchmarks:

-m64 -std=c99 -03 -DSPEC_SUPPRESS_OPENMP -march=x86-64 -fno-openmp -fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

-m64 -std=c++03 -O3 -DSPEC_SUPPRESS_OPENMP -march=x86-64 -fno-openmp

Fortran benchmarks:

-m64 -DSPEC_SUPPRESS_OPENMP -O3 -march=x86-64 -fno-openmp

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