

Your run was marked invalid because it has one or more flags in the "unknown" category. You might be able to resolve this problem without re-running your test; see

https://www.spec.org/cpu2017/Docs/runcpu.html#flagsurl for more information.

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SPECspeed®2017_int_base

SPECspeed®2017 int peak 7 **Mot Run**

CPU2017 License: nnn (Your SPEC license number)

Test Date:

Oct-2021

Test Sponsor: My Corporation **Tested by:** My Corporation

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	32	<u>283</u>	<u>6.27</u>	283	6.27					1				
602.gcc_s	32	<u>383</u>	<u>10.4</u>	370	10.8	/								
605.mcf_s	32	519	9.09	<u>535</u>	8.82/	$\overline{}$)/					
620.omnetpp_s	32	<u>434</u>	<u>3.76</u>	402	4.05				~					
623.xalancbmk_s	32	<u>220</u>	<u>6.43</u>	219	6.48									
625.x264_s	32	<u>183</u>	<u>9.62</u>	183	9.63	/(5						
631.deepsjeng_s	32	365	3.93	375	<u>3.82</u>									
641.leela_s	32	382	4.46	<u>383</u>	4.46			//~						
648.exchange2_s	32	<u>220</u>	13.4	219	13.4									
657.xz_s	32	<u>2158</u>	2,86	2123	2.91									

SPECspeed®2017_int_base =

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SPECspeed®2017_int_peak = Not Run

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

Environment Variables Notes

by runcpu before the start of the run: Environment variables set LD LIBRARY PATH = "/wsr/lib64/:/usr/lib64"

Platform Notes

Sysinfo program /u/home/hettwer/cpu2017/bin/sysinfo

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on time-x Sat Oct 9 01:25:38 2021

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: AMD Ryzen Threadripper PRO 3955WX 16-Cores

"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 : 16

siblings : 32

physical 0: cores 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15

From lscpu:

Architecture: x86_64

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48 bits/virtual

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Platform Notes (Continued)

```
CPU op-mode(s):
                                   32-bit, 64-bit
                                   Little Endian
Byte Order:
Address sizes:
                                   43 bits physical,
CPU(s):
                                   3/2
On-line CPU(s) list:
                                   ż
Thread(s) per core:
Core(s) per socket:
                                   16
Socket(s):
                                   1
                                   1
NUMA node(s):
                                   AuthenticAMD
Vendor ID:
                                   23
CPU family:
Model:
Model name:
Stepping:
                                   enabled
```

49 AMD Ryzen Threadripper PRO 3955WX 16-Cores

Frequency boost: CPU MHz: CPU max MHz: CPU min MHz: BogoMIPS: Virtualization: Lld cache: Lli cache: L2 cache: L3 cache:

4402 7339 2200.0000 7/185.19 AMD-V 512 KiB 512 KiB 8 MiB 64 MiB 0 - 31

1915, 744

Vulnerability Itlb multihit: Not affected Vulnerability L1tf: Not affected Vulnerability Mds: Not affected Vulnerability Meltdown: Not affected

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

prot1 and seccept

NUMA node (CPU(s)

wulnerability spectre v1: pointer sanitization

Mitigation; usercopy/swapgs barriers and __user

Vulnerability Spectre v2:

Mitigation; Full AMD retpoline, IBPB conditional,

STIBP conditional, RSB filling

Vulnerability Srbds: Not affected Wulnerability Tsx async abort:

Not affected

fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36 clflush mmx fxsr sse sse2 ht syscall nx mmxext fxsr_opt pdpelgb rdtscp lm constant_tsc rep_good nopl nonstop_tsc cpuid extd_apicid aperfmperf pni pclmulqdq monitor ssse3 fma cx16 sse4_1 sse4_2 movbe popcnt aes xsave avx f16c rdrand lahf_lm cmp_legacy svm extapic cr8_legacy abm sse4a misalignsse 3dnowprefetch osvw ibs skinit wdt tce topoext perfctr_core perfctr_nb bpext perfctr_llc mwaitx cpb cat_13 cdp_13 hw_pstate sme ssbd mba sev ibpb stibp vmmcall sev_es fsgsbase bmi1 avx2 smep bmi2 cqm rdt_a rdseed adx smap clflushopt clwb sha_ni xsaveopt xsavec xgetbv1 xsaves cqm_llc cqm_occup_llc cqm_mbm_total cqm_mbm_local clzero irperf xsaveerptr rdpru wbnoinvd arat npt lbrv svm_lock nrip_save tsc_scale

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Hardware Availability: Software Availability:

Platform Notes (Continued)

vmcb_clean flushbyasid decodeassists pausefilter pfthreshold avic v_vmsave_vmload vgif umip rdpid overflow_recov succor smca

/proc/cpuinfo cache data cache size : 512 KB

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

From /proc/meminfo

32703484 kE MemTotal:

HugePages_Total:

Hugepagesize:

/usr/bin/lsb_release -d Ubuntu 20.04.2 LTS

From /etc/*release* /etc/*version* debian_version: bull eye sid os-release: NAME="Ubuntu"

VERSION="20.04(2 LTS (Focal Fossa)" ID=ubuntu

ID LIKE=debian

PRETTY_NAME="Ubuntu 20.04.2 LTS"

VERSION ID= "20.04"

HOME_URL="https://www.ubuntu.com/" SUPPORT_URL="https://help.ubuntu.com/"

uname

ame -d Lipux time-x 5.10-0-1044-oem #46-Ubuntu SMP Wed Aug 11 09:50:57 UTC 2021 x86_64 x86_64 x86_64 CNU/Linux

Kernel self reported vulnerability status:

itlb multihi Not affected CVE-2018-3620 (L1 Terminal Fault): Not affected Microarchitectural Data Sampling: Not affected CVE-2017/5754 (Meltdown): Not affected

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-2017-5715 (Spectre variant 2): Mitigation: Full AMD retpoline, IBPB:

conditional, STIBP: conditional, RSB filling

srbds: Not affected Not affected tsx_async_abort:

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Test Date: Oct-2021 Hardware Availability:

Software Availability:

Platform Notes (Continued)

run-level 5 Aug 26 10:31

SPEC is set to: /u/home/hettwer/cpu2017
Filesystem

Type Size Used Avail Use% Mounted

on

nasil10.informatik.tu-muenchen.de:/srv/j110/home nfs 6.9T 5.2T 1.4T 80% /u/home

From /sys/devices/virtual/dmi/id

BIOS: LENOVO S07KT1FA 0(5/)9/2021

Vendor: LENOVO

Product Family: ThinkStation P6/20

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

(End of data from sysinfo program)

Compiler Version Notes

Using built-in specs

COLLECT_GCC=/usr/bin/gcc

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

OFFLOAD_TARGET_NAMES=nvptx-none:hsa

OFFLOAD_TARGET_DEFAULT=1 Target:/x86_64-Linux-gnu

Careficial and the control of the co

Configured with: ../grc/configure -v --with-pkgversion='Ubuntu

9.3.0-17ubuntu1~20.04'

-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-refix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id

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

--libdi<mark>y=/usr/lib --enable-nls --enable-clocale=gnu</mark>

--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=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa

--without-cuda-driver --enable-checking=release --build=x86 64-linux-qnu

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Compiler Version Notes (Continued)

```
--host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04)
         620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)
        641.leela_s(base)
Using built-in specs.
COLLECT_GCC=/usr/bin/g++
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linex-gnu/9/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx/none:hsa/
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
                                    --with pkgversion='Ubuntu
Configured with: ../src/configure -v
 9.3.0-17ubuntu1~20.04'
  --with-bugurl=file:///usr/share/doc/gcc/9/README.Bugs
  --enable-languages=c,ada,c+,gq,brig,d,fortran,objc,obj-c++,gm2
  --prefix=/usr --with-gcc-ma/for-version-only --program-suffix=-9
 --program-prefix=x86_64-linux-gnu--enable-shared --enable-linker-build-id
 --libexecdir=/usr//16b --without/included-gettext --enable-threads=posix
  --libdir=/usr/lib --enable-nls --enable-clocale=gnu
  --enable-libstdcxx-debug --enable-libstdcxx-time=yes
  --with-default libstdexx-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
  --enablefoffload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa
  --withdut-cuda driver --enable-checking=release --build=x86_64-linux-gnu
  --host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
   version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04)
-----
Fortran \
         648.exchange2_s(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='Ubuntu
  9.3.0-17ubuntu1~20.04'
                                  (Continued on next page)
```

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Test Date: Oct-2021 Hardware Availability: Software Availability:

Compiler Version Notes (Continued)

```
--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
- --program-prefix=x86_64-linux-gnu- --enable-shared --enable-linker-build-id
- --libexecdir=/usr/lib --without-included-gattext --enable-threads=posix
- --libdir=/usr/lib --enable-nls --enable-clocale=gnu
- --enable-libstdcxx-debug --enable-libstdcxx-time=yes
- --with-default-libstdcxx-abi=new --enab/e-gnu-unique-object
- --disable-vtable-verify --enable-plugin --enable-derault-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=nyptx none=/buildygcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa
- --without-cuda-driver -- enable-checking=release --build=x86_64-linux-gnu
- --host=x86_64-linux-gnu --target=x86_64-linux-gnu

Thread model: posix

gcc version 9.3.0 (Ubuntu 9.3.0-17ubuntu1~20.04)

Base Unknown Flags

```
600.perlbench_s: "-fcommon
                          statid
```

"-fno-openmp" (in EXTRA OPTIMIZE)

602.gcc_s: "-fcommon -statid"(in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

605.mcf_s: "fcommon -static" (in OPTIMIZE)

-fno-openmp" (in EXTRA_OPTIMIZE)

620.omnetpp_s: fcommon -static"(in OPTIMIZE)

"-Ino-opening" (in EXTRA_OPTIMIZE)

623 xalansbmk_s: "_fcommon -static" (in OPTIMIZE)
"-fno openmp" (in EXTRA_OPTIMIZE)

625.x264_s:"- common -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

631.deepsjeng_s: "-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

641.leela_s: "-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

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Base Unknown Flags (Continued)

648.exchange2_s: "-fcommon -static" (in OPTIMIZE) "-fno-openmp" (in EXTRA OPTIMIZE)

657.xz_s: "-fcommon -static" (in OPTIMIZE)
"-fno-openmp" (in EXTRA_OPTIMIZE)

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

q++

Fortran benchmarks:

gfortran

Base Portability Flags

600.perlbench_s: -DSPEC_LINUX_X64 -DSPEC_LP64

602.gcc_s: -DSPEQ_LP64 605.mcf_s: -DSPEC_LP64

620.omnetpp_s:-DSPEC_LP64

623.xalancbrk_s: -DSPEC_LINUX -DSPEC_LP64

625.x264_s: | DSPEC_LP64

631.deepsjeng_s: -DSPEC_LP64

641.leelo_s: -DSPEC_LP64

648.exchange2 s: DSPEC LP64

657.xx_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-m64 -std=c99 -03 -fno-unsafe-math-optimizations

-DSPEC_SUPPRESS_OPENMP -fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

-m64 -std=c++03 -O3 -fno-unsafe-math-optimizations

-DSPEC SUPPRESS OPENMP

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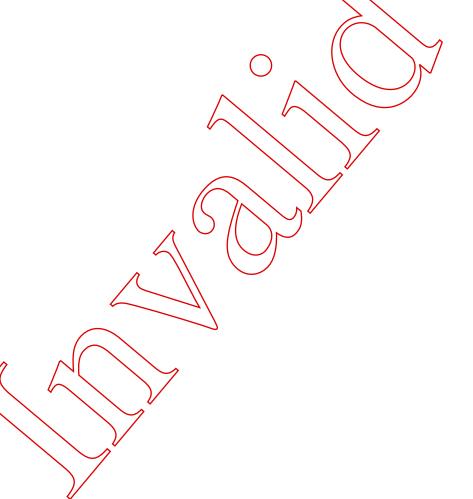
Test Date: Oct-2021

Hardware Availability: Software Availability:

Base Optimization Flags (Continued)

Fortran benchmarks:

-m64 -O3 -fno-unsafe-math-optimizations -DSPEC_SUPPRESS_OPENMR



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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 2021-10-09 01:25:37+0200.

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