

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

for information about how to get rid of this error.

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Test Sponsor:

Tested by:

SPECspeed®2017_int_base =

SPECspeed®2017 int peak Not Run

CPU2017 License: nnn (Your SPEC license number)

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Test Date: Hardware Availability: Software Availability:

Oct-2021

Results Table

							~	\	/		/			
	Base							Peak						
Benchmark	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	32	1104	1.61	<u>1106</u>	<u>1.60</u>			`		1				
602.gcc_s	32	<u>1062</u>	<u>3.75</u>	1059	3.76									
605.mcf_s	32	<u>1106</u>	<u>4.27</u>	1091	4.33)/					
620.omnetpp_s	32	823	1.98	<u>832</u>	<u>1.96</u>				\					
623.xalancbmk_s	32	<u>486</u>	<u>2.91</u>	485	2.92									
625.x264_s	32	<u>1146</u>	<u>1.54</u>	1137	1.55	 		\searrow						
631.deepsjeng_s	32	867	1.65	896	<u>1.60</u>									
641.leela_s	32	<u>991</u>	<u>1.72</u>	979	1,74			ノバ						
648.exchange2_s	32	532	5.53	<u>537</u>	5.47									
657.xz_s	32	<u>4010</u>	1.54	3824	1.62									
CDEC	100015	4 1	-1/											

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 $SPECspeed @ 2017_int_peak = \quad N$

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

Submit Notes

The config file option 'submit' was used

Environment Variables Notes

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

"/u/home/hettwer/toolchains/rv64g/lib64/:/u/home/hettwer/toolchains/rv64g/lib/:/lib64"

Platform Notes

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

Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011

running on time-x Thu Oct 14 09:54:02 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

- 1 "physical id"s (chips)
- 32 "processors"

cores, siblings (Caution: counting these is hw and system dependent. The following

(Continued on next page)

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Hardware Availability: Software Availability:

```
Platform Notes (Continued)
```

```
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
From lscpu:
     Architecture:
                                       32/bit, 64-bit
     CPU op-mode(s):
                                       Little Endian
     Byte Order:
                                       43 bits physical, 48 bits virtual
     Address sizes:
                                       32
     CPU(s):
     On-line CPU(s) list:
                                       0-31
                                       2
     Thread(s) per core:
     Core(s) per socket:
                                       16
     Socket(s):
                                       1
     NUMA node(s):
                                       1
     Vendor ID:
                                       AuthenticAMD
     CPU family:
                                       23
     Model:
     Model name:
                                       AMD Ryzen Threadripper PRO 3955WX 16-Cores
     Stepping:
                                       enabled
     Frequency boos
     CPU MHz:
                                       2291.098
     CPU max MHz:
                                       4402.7339
     CPU min MMz
                                       2200.0000
     BogoMIPS:
                                       7785.19
     Virtualization:
                                       AMD-V
                                       512 KiB
     Lld cache:
     Lli/cache
                                       512 KiB
     L2 cache
                                       8 MiB
       cache:
                                       64 MiB
    MUMA RodeO CPU(s):
                                       0 - 31
     Vulnerability Itlb multihit:
                                       Not affected
     Vulnerability L1tf:
                                       Not affected
     Vulnerability Mds:
                                       Not affected
     Vulnerability Meltdown:
                                       Not affected
     Wulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via
     prot1 and seccomp
     Vulmerability Spectre v1:
                                       Mitigation; usercopy/swapgs barriers and __user
     pointer sanitization
     Vulnerability Spectre v2:
                                      Mitigation; Full AMD retpoline, IBPB conditional,
     STIBP conditional, RSB filling
                                       Not affected
     Vulnerability Srbds:
     Vulnerability Tsx async abort:
                                       Not affected
                                       fpu vme de pse tsc msr pae mce cx8 apic sep mtrr
     Flags:
     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
```

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Platform Notes (Continued)

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 kw_pstate sme ssbd mba sev ibpb stibp vmmcall sev_es fsgsbase bmi1 avx2 smep bmi2_eqm xdt_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 wbnoinvo arat npt lbrv svm_lock nrip_save tsc_scale vmcb_clean flushbyasid decodeassists pausefilter pfthreshold avic v_vmsave_vmload vgif umip rdpid overflow_recov succpr smca

```
/proc/cpuinfo cache data
  cache size : 512 KB
```

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

```
From /proc/meminfo

MemTotal: 32703484 RB

HugePages_Total: 0

Hugepagesize: 2048
```

/usr/bin/lsb_release(-d Ubuntu 20.04.2 TIS

x86_8/4 GNU/Linux

```
From /etc/*release* /etc/*version*
debian_version: bullseye/sid
os-release:
    NAME="Ubuntu"
    VERSION="20.04.2 LTS (Focal Fossa)"
    ID=ubuntu
    ID_LIKE=debian
    PRETTY_NAME="Obuntu 20.04.2 LTS"
    VERSION_ID=*20.04"
    HOME_URL=*https://www.ubuntu.com/"
    SUPPORT_URL="https://help.ubuntu.com/"
uname -a:
```

Kernel self-reported vulnerability status:

CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled

Linux t/me-x 5.10.0-1044-oem #46-Ubuntu SMP Wed Aug 11 09:50:57 UTC 2021 x86_64 x86_64

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Test Date: Oct-2021
Hardware Availability:

Software Availability:

Platform Notes (Continued)

```
via prctl and seccomp
                                         Mitigation: usercopy/swapgs barriers and __user
CVE-2017-5753 (Spectre variant 1):
                                           pointer sanitization
                                           Mitigation: Full AMD retpoline, IBPB:
CVE-2017-5715 (Spectre variant 2):
                                           conditional, STIBP; conditional, RSB filling
                                           Not affected
srbds:
                                            ot affected
tsx_async_abort:
run-level 5 Aug 26 10:31
SPEC is set to: /u/home/hettwer/cpu2017
                                                           Size Used Avail Use% Mounted
   Filesystem
                                                     Type
```

nasil10.informatik.tu-muenchen.de:/srv/il10/home nfs 6.9T 5.4T 1.3T 82% /u/home

From /sys/devices/virtual/dmi/id BIOS: LENOVO S07KT1FA 05/19/2021 Vendor: LENOVO

Product Family: ThirkStation P620

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

--disable-libsanitizer --disable-nls --disable-bootstrap --src=../../riscv-gnu-toolchain/riscv-gcc --disable-multilib --with-abi=lp64d --with-arch=rv64imafdc --with-tune=rocket

'CFLAGS FOR TARGET=-02 -mcmodel=medlow' 'CXXFLAGS FOR TARGET=-02

(End of data from systinfo program)

Compiler Version Notes

(Continued on next page)

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Test Sponsor: My Corporation My Corporation Test Date: Oct-2021 Hardware Availability:

Software Availability:

Compiler Version Notes (Continued)

```
-mcmodel=medlow'
Thread model: posix
Supported LTO compression algorithms: zlib
gcc version 11.1.0 (GCC)
_____
                                               620.omnetpp_s(base) 623.xalancbmk_s(base) 631.deepsjeng_s(base)
        641.leela_s(base)
Using built-in specs.
COLLECT_GCC=/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-g++
COLLECT_LTO_WRAPPER=/u/home/hettwer/toolchains/rv64s/libexec/gcc/riscv64-unknown-linux-gnu/11.1.0/lto-wrapper
Target: riscv64-unknown-limux-gru
Configured with:
 /u/home/hettwer/build-rv64g/...\riscv-gnu-toolchain/riscv-gcc/configure
  --target=riscv64-unknown-linux-gru
 --prefix=/u/home/hettwer/toolchains/rv64g
  --with-sysroot=/u/home/nettwer/toolchains/rv64g/sysroot --with-system-zlib
 --enable-shared --enable-tlanguages=c,c++,fortran
 --disable-libmudflap --disable-libsp --disable-libquadmath
  --disable-libsanitizer --disable-nls --disable-bootstrap
  --src=../../riscv-gnu-toolchain/riscv-gcc --disable-multilib
  --with-abi=lp64d --with-arch=rv64imafdc --with-tune=rocket
  'CFLAGS_FOR_TARGET=-02
                        -mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02
  -mcmodel=medlow'
Thread model: posix
Supported LTO compression algorithms: zlib
gcc version 11.1.0 (GCC)
 ----
Fortran |
         648.exchange2_s(base)
Using built-in specs.
COLLECT_SCC=/14/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-gfortran
COLLECT_LTO_WRAPPER=/u/home/hettwer/toolchains/rv64g/libexec/gcc/riscv64-unknown-linux-gnu/11.1.0/lto-wrapper
Target: niscv64-unknown-linux-gnu
Configured with:
  /u/home/hettwer/build-rv64g/../riscv-gnu-toolchain/riscv-gcc/configure
  --target=riscv64-unknown-linux-gnu
  --prefix=/u/home/hettwer/toolchains/rv64g
  --with-sysroot=/u/home/hettwer/toolchains/rv64g/sysroot --with-system-zlib
 --enable-shared --enable-tls --enable-languages=c,c++,fortran
  --disable-libmudflap --disable-libssp --disable-libquadmath
  --disable-libsanitizer --disable-nls --disable-bootstrap
  --src=../../riscv-gnu-toolchain/riscv-gcc --disable-multilib
```

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Compiler Version Notes (Continued)

--with-abi=lp64d --with-arch=rv64imafdc --with-tune-rocket

-mcmodel=medlow' 'CXXFLAGS_FOR_TARGET=-02 'CFLAGS FOR TARGET=-02

-mcmodel=medlow'

Thread model: posix

Supported LTO compression algorithms: z

gcc version 11.1.0 (GCC)

Base Unknown Flags

600.perlbench_s: "/u/home/hettwer/toolchains/ry64g/bin/risev64-unknown-linux-gnu-" (in CC)

"/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

602.gcc_s: "/u/home/hettwer/toolchains/xv64g/bjh/riscv64-unknown-linux-gnu-" (in CC)

"/u/home/hettwer/toolchains/rvo4g/bin/risov64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

605.mcf_s: "/u/home/het/wer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-" (in CC)

"/u/home/hettwer/toolohains/ry64g/bin/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon -static"(in OPTIMIZE)
"-fno-openmp"(in EXTRA_OPTIMIZE)

620.omnetpp_s: "/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in CXX)

"/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon static" (in OPTIMIZE)

-fno-openmp" (in EXTRA_OPTIMIZE)

623.xalancbrok_s."/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in CXX)

"/w/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in LD)

-fcommon -static (in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

625.x264_s: "/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in CC)

"/u/home/hgttwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

631.deepsjeng_s: "/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-" (in CXX)

"/u/home/hettwer/toolchains/rv64q/bin/riscv64-unknown-linux-qnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA OPTIMIZE)

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SPECspeed®2017_int_base

SPECspeed®2017_int_peak 7 Not Run

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Base Unknown Flags (Continued)

641.leela_s: "/u/home/hettwer/toolchains/rv64g/bin/riscv64-tnknown-linux-gnu-" (in CXX)

"/u/home/hettwer/toolchains/rv64g/bin/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

648.exchange2_s: "/u/home/hettwer/toolchains/rv64g/bin/xiscv64-unknown-linux-gnu-" (in FC)

"/u/home/hettwer/toolchains/rv64g/bin/riscy64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

657.xz_s: "/u/home/hettwer/toolchains/ry64g/bin/risev64/unknown-linux-gnu-" (in CC)

"/u/home/hettwer/toolchains/rx64g/bih/riscv64-unknown-linux-gnu-"(in LD)

"-fcommon -static" (in OPTIMIZE)

"-fno-openmp" (in EXTRA_OPTIMIZE)

Base Compiler Invocation

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

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.xalancomk_s: -DSPEC_LINUX -DSPEC_LP64

625.x264_s/DSPEC LP64

631.deepsjeng_s: -DSPEC_LP64

641.leela_s: -DSPEC_LP64

648.exchange2_s: -DSPEC LP64

657.xz_s: -DSPEC_LP64

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Base Optimization Flags

C benchmarks:

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

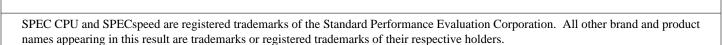
-fno-strict-aliasing -fgnu89-inline

C++ benchmarks:

-std=c++03 -03 -fno-unsafe-math-optimization -DSPEC_SUPPRESS_OPENMP

Fortran benchmarks:

-03 -fno-unsafe-math-optimizations -DSPEC SUPPRESS OPENME



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 2021-10-14 09:54:01+0200. Report generated on 2021-10-14 16:48:09 by CPU2017 PDF formatter v6255.