

SPEC CPU®2017 Floating Point Speed Result

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Laptop Rubens

SPECSpeed®2017_fp_base = 3.11

SPECSpeed®2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

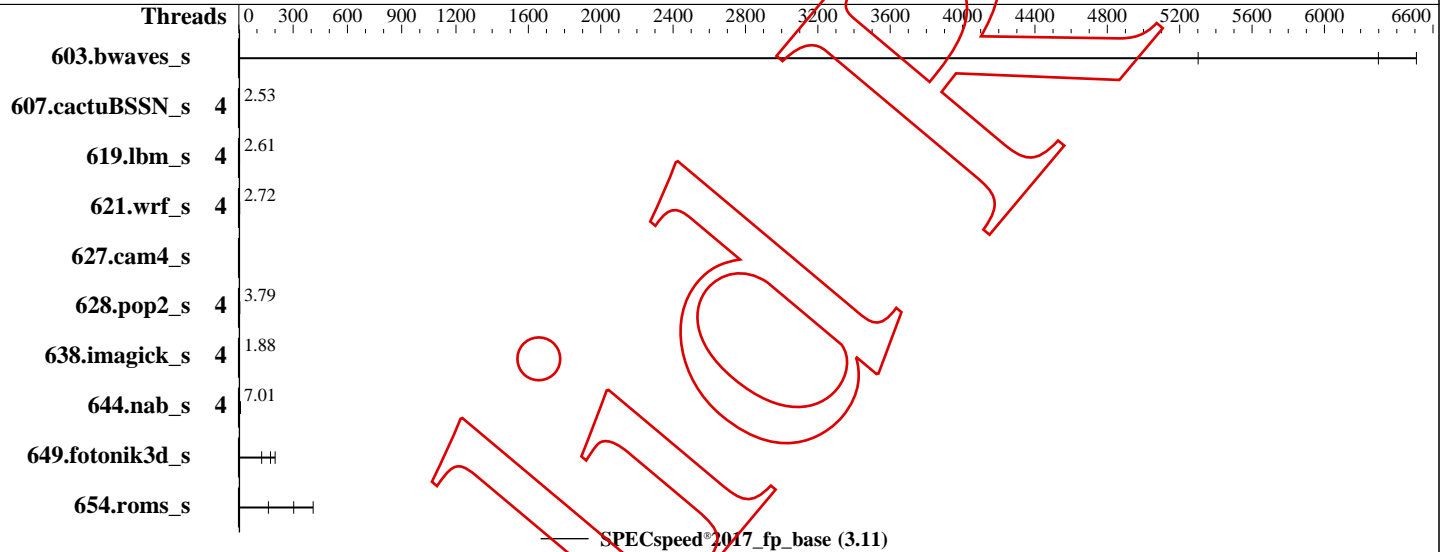
Test Sponsor: Laptop Rubens

Tested by: Laptop Rubens

Test Date: May-2023

Hardware Availability:

Software Availability:



Hardware

CPU Name: Intel Core i7-2620M

Max MHz:

Nominal:

Enabled: cores, 1 chip, threads/core

Orderable:

Cache L1:

L2:

L3:

Other:

Memory: 7.733 GB fixme: If using DDR4, the format is:
'N GB (N x N GB nRxn PC4-xxxxX-X)'

Storage: 1007 GB add more disk info here

Other:

OS:

Compiler:

Parallel:

Firmware:

File System:

System State:

Base Pointers:

Peak Pointers:

Other:

Power Management: --

Software

Ubuntu 22.04.2 LTS

5.15.90.1-microsoft-standard-WSL2

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

Yes

ext4

Run level 5 (add definition here)

64-bit

Not Applicable

Errors

'reportable' flag not set during run

627.cam4_s (base) did not have enough runs!

654.roms_s (base) had invalid runs!

649.fotonik3d_s (base) had invalid runs!

603.bwaves_s (base) had invalid runs!

Run of 603.bwaves_s (base) was not valid; status is RE

Run of 649.fotonik3d_s (base) was not valid; status is RE

Run of 654.roms_s (base) was not valid; status is RE

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Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
603.bwaves_s	4	11.1	0.00	9.07	0.00	9.37	0.00							
607.cactuBSSN_s	4	9139	1.82	4687	3.56	<u>6579</u>	<u>2.53</u>							
619.lbm_s	4	2027	2.58	1432	3.66	<u>2009</u>	<u>2.61</u>							
621.wrf_s	4	6835	1.94	3014	4.39	<u>4863</u>	<u>2.72</u>							
627.cam4_s														
628.pop2_s	4	3708	3.20	2403	4.94	<u>3132</u>	<u>3.79</u>							
638.imagick_s	4	5388	2.68	9040	1.60	<u>7671</u>	<u>1.88</u>							
644.nab_s	4	2107	8.29	<u>2493</u>	<u>7.01</u>	2667	6.55							
649.fotonik3d_s	4	45.5	0.00	52.1	0.00	72.4	0.00							
654.roms_s	4	52.0	0.00	38.3	0.00	96.5	0.00							

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

Environment Variables Notes

Environment variables set by runspe before the start of the run:

LD_LIBRARY_PATH = "/usr/lib64:/usr/lib/::lib64"

OMP_STACKSIZE = "120M"

Platform Notes

Sysinfo program /usr/local/spec_cpu2017/bin/sysinfo

Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197

running on NotebookRubens Fri May 19 18:31:18 2023

SUT (System Under Test) info as seen by some common utilities.

Table of contents

1. uname -a
2. w
3. Username
4. ulimit -a
5. sysinfo process ancestry
6. /proc/cpuinfo
7. lscpu
8. numactl warning
9. /proc/meminfo
10. who -r
11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.9)
12. Services, from systemctl list-unit-files
13. Linux kernel boot-time arguments, from /proc/cmdline
14. sysctl
15. /sys/kernel/mm/transparent_hugepage
16. /sys/kernel/mm/transparent_hugepage/khugepaged
17. OS release

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Software Availability:

Platform Notes (Continued)

18. Disk information
19. dmidecode

1. uname -a
Linux NotebookRubens 5.15.90.1-microsoft-standard-WSL2 #1 SMP Fri Jan 27 02:56:13 UTC 2023 x86_64 x86_64
x86_64 GNU/Linux

2. w
18:31:18 up 12 min, 2 users, load average: 0.18, 0.36, 0.18
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT
rubens pts/1 - 18:18 12:41 0.07s 0.05s -bash
rubens pts/2 - 18:25 6.00s 2.45s 0.12s sudo -i

3. Username
From environment variable \$USER: root
From the command 'logname': rubens

4. ulimit -a
time(seconds) unlimited
file(blocks) unlimited
data(kbytes) unlimited
stack(kbytes) 8192
coredump(blocks) 0
memory(kbytes) unlimited
locked memory(kbytes) 1013600
process 31649
nofiles 1024
vmemory(kbytes) unlimited
locks unlimited
rtprio 0

5. sysinfo process ancestry
/sbin/init
/init
/init
/init
/init
-bash
sudo -i
sudo -i
-bash
runcpu --config=rubens-try1 --noreportable --iterations=3 603.bwaves_s 607.cactuBSSN_s 619.lbm_s 621.wrf_s
628.pop2_s 638.imagick_s 644.nab_s 649.fotonik3d_s 654.roms_s 996.specrand_fs
runcpu --configfile rubens-try1 --noreportable --iterations 3 --noreportable --nopower --runmode speed
--tune base --size refspped 603.bwaves_s 607.cactuBSSN_s 619.lbm_s 621.wrf_s 628.pop2_s 638.imagick_s
644.nab_s 649.fotonik3d_s 654.roms_s 996.specrand_fs --nopreenv --note-preenv --logfile
\$SPEC/tmp/CPU2017.062/temlogs/preenv.fpspeed.062.0.log --lognum 062.0 --from_runcpu 2
specperl \$SPEC/bin/sysinfo
\$SPEC = /usr/local/spec_cpu2017

6. /proc/cpuinfo
model name : Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
vendor_id : GenuineIntel
cpu family : 6

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Platform Notes (Continued)

```
model          : 42
stepping       : 7
microcode      : 0xffffffff
bugs           : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
                mmio_unknown
cpu cores      : 2
siblings       : 4
1 physical ids (chips)
4 processors (hardware threads)
physical id 0: core ids 0-1
physical id 0: apicids 0-3
```

Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for virtualized systems. Use the above data carefully.

7. lscpu

From lscpu from util-linux 2.37.2:

```
Architecture:          x86_64
CPU op-mode(s):        32-bit, 64-bit
Address sizes:          36 bits physical, 48 bits virtual
Byte Order:             Little Endian
CPU(s):                 4
On-line CPU(s) list:   0-3
Vendor ID:              GenuineIntel
Model name:             Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
CPU family:             6
Model:                  42
Thread(s) per core:     2
Core(s) per socket:     2
Socket(s):              1
Stepping:               7
BogoMIPS:               5387.75
Flags:                  fpvm de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36
                        clflush mmx fxsr sse sse2 ht syscall nx rdtscp lm constant_tsc
                        arch_perfmon rep_good nopl xtopology cpuid pni pclmulqdq ssse3 cx16 pdcm
                        pcid sse4_1 sse4_2 popcnt aes xsave avx hypervisor lahf_lm pti ssbd ibrs
                        ibpb stibp xsaveopt flush_lld arch_capabilities

Hypervisor vendor:     Microsoft
Virtualization type:    full
L1d cache:              64 KiB (2 instances)
L1i cache:              64 KiB (2 instances)
L2 cache:               512 KiB (2 instances)
L3 cache:               4 MiB (1 instance)
Vulnerability Itlb multihit: KVM: Mitigation: VMX unsupported
Vulnerability L1tf:      Mitigation; PTE Inversion
Vulnerability Mds:       Vulnerable; Clear CPU buffers attempted, no microcode; SMT Host state
                        unknown
Vulnerability Meltdown:   Mitigation; PTI
Vulnerability Mmio stale data: Unknown: No mitigations
Vulnerability Retbleed:   Not affected
Vulnerability Spec store bypass: Mitigation; Speculative Store Bypass disabled via prctl and seccomp
Vulnerability Spectre v1: Mitigation; usercopy/swapgs barriers and __user pointer sanitization
Vulnerability Spectre v2: Mitigation; Retpolines, IBPB conditional, IBRS_FW, STIBP conditional, RSB
                        filling, PBRSE-eIBRS Not affected
Vulnerability Srbds:      Not affected
Vulnerability Tsx async abort: Not affected
```

From lscpu --cache:

NAME ONE-SIZE ALL-SIZE WAYS TYPE

LEVEL SETS PHY-LINE COHERENCY-SIZE

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Platform Notes (Continued)

L1d	32K	64K	8 Data	1	64	1	64
L1i	32K	64K	8 Instruction	1	64	1	64
L2	256K	512K	8 Unified	2	512	1	64
L3	4M	4M	16 Unified	3	4096	1	64

8. numactl warning

Unable to get information from 'numactl --hardware'. Please consider installing numactl.

9. /proc/meminfo

MemTotal: 8108808 kB

10. who -r

run-level 5 May 19 18:18

11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.9)

Default Target Status
graphical running

12. Services, from systemctl list-unit-files

STATE	UNIT FILES
enabled	apparmor console-setup cron dmesg e2scrub_reap getty@ irqbalance keyboard-setup networkd-dispatcher rsyslog setvtrgb snapd systemd-pstore systemd-resolved systemd-timesyncd ua-reboot-cmds ubuntu-advantage ufw unattended-upgrades
enabled-runtime	console-getty netplan-ovs-cleanups systemd-remount-fs
disabled	debug-shell nftables rsync serial-getty@ systemd-boot-check-no-failures systemd-network-generator systemd-networkd systemd-networkd-wait-online systemd-sysext systemd-time-wait-sync
generated	apport wslg-mount
indirect	uuuid
masked	cryptdisks cryptdisks-early hwclock rc rcS screen-cleanup sudo systemd-binfmt x11-common

13. Linux kernel boot-time arguments, from /proc/cmdline

initrd=\initrd.img
WSL_ROOT_INIT=1
panic=-1
nr_cpus=4
bonding.max_bonds=0
dummy.numdummies=0
fb_tunnels=none
swiotlb=force
console=hvc0
debug
pty.legacy_count=0

14. sysctl

kernel.randomize_va_space	2
vm.compaction_proactiveness	20
vm.dirty_background_bytes	0
vm.dirty_background_ratio	10
vm.dirty_bytes	0
vm.dirty_expire_centisecs	3000
vm.dirty_ratio	20

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Platform Notes (Continued)

```
vm.dirty_writeback_centisecs    500
vm.dirtytime_expire_seconds    43200
vm.extfrag_threshold           500
vm.nr_hugepages                 0
vm.nr_overcommit_hugepages     0
vm.swappiness                   60
vm.watermark_boost_factor      15000
vm.watermark_scale_factor      10
```

```
15. /sys/kernel/mm/transparent_hugepage
defrag          always defer defer+madvise [madvise] never
enabled         [always] madvise never
hpage_pmd_size  2097152
shmem_enabled   always within_size advise [never] deny force
```

```
16. /sys/kernel/mm/transparent_hugepage/khugepaged
alloc_sleep_millisecs  60000
defrag                 1
max_ptes_none          511
max_ptes_shared        256
max_ptes_swap          64
pages_to_scan          4096
scan_sleep_millisecs   10000
```

```
17. OS release
From /etc/*-release /etc/*-version
os-release Ubuntu 22.04.2 LTS
```

```
18. Disk information
SPEC is set to: /usr/local/spec_cpu2017
Filesystem Type Size Used Avail Use% Mounted on
/dev/sdc   ext4 1007G  42G  914G   5% /
```

```
19. dmi decode
Additional information from dmi decode 3.3 follows.  WARNING: Use caution when you interpret this section.
The 'dmi decode' 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.
```

BIOS: (could not find information)

Compiler Version Notes

```
=====
C | 619.lbm_s(base) 638.imagick_s(base) 644.nab_s(base)
```

```
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none:amdgc- amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-1ubuntu1~22.04'
--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs
```

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Compiler Version Notes (Continued)

```
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr
--with-gcc-major-version-only --program-suffix=-11 --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
--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto
--enable-multiarch --disable-werror --enable-cet --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-11-x86_64-linux-gnu-11.3.0/debian/tmp-nvptx/usr,amdgc-
--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-serialization=2
```

Thread model: posix

Supported LTO compression algorithms: zlib zstd
gcc version 11.3.0 (Ubuntu 11.3.0-1ubuntu1~22.04)

=====
C++, C, Fortran | 607.cactuBSSN_s(base)

Using built-in specs.

COLLECT_GCC=/usr/bin/g++

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-amdhsa

OFFLOAD_TARGET_DEFAULT=1

Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-1ubuntu1~22.04'

--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr

--with-gcc-major-version-only --program-suffix=-11 --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

--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --enable-cet --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-11-x86_64-linux-gnu-11.3.0/debian/tmp-nvptx/usr,amdgc-amdhsa=/build/gcc-11-x86_64-linux-gnu-11.3.0/debian/tmp-gcn/usr

--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-serialization=2

Thread model: posix

Supported LTO compression algorithms: zlib zstd
gcc version 11.3.0 (Ubuntu 11.3.0-1ubuntu1~22.04)

Using built-in specs.

COLLECT_GCC=/usr/bin/gcc

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-amdhsa

OFFLOAD_TARGET_DEFAULT=1

Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-1ubuntu1~22.04'

--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr

--with-gcc-major-version-only --program-suffix=-11 --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

--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --enable-cet --with-arch-32=i686 --with-abi=m64

--with-multilib-list=m32,m64,mx32 --enable-multilib --with-tune=generic

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Compiler Version Notes (Continued)

```
--enable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-  
--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-serialization=2  
Thread model: posix  
Supported LTO compression algorithms: zlib zstd  
gcc version 11.3.0 (Ubuntu 11.3.0-1ubuntu1~22.04)  
Using built-in specs.  
COLLECT_GCC=/usr/bin/gfortran  
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper  
OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-  
OFFLOAD_TARGET_DEFAULT=1  
Target: x86_64-linux-gnu  
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-1ubuntu1~22.04'  
--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs  
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr  
--with-gcc-major-version-only --program-suffix=-11 --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  
--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto  
--enable-multiarch --disable-werror --enable-cet --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-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-  
--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-serialization=2  
Thread model: posix  
Supported LTO compression algorithms: zlib zstd  
gcc version 11.3.0 (Ubuntu 11.3.0-1ubuntu1~22.04)  
-----  
Fortran | 603.bwaves_s(base) 649.fotonik3d_s(base) 654.roms_s(base)  
-----  
Using built-in specs.  
COLLECT_GCC=/usr/bin/gfortran  
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper  
OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-  
OFFLOAD_TARGET_DEFAULT=1  
Target: x86_64-linux-gnu  
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-1ubuntu1~22.04'  
--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs  
--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr  
--with-gcc-major-version-only --program-suffix=-11 --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  
--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto  
--enable-multiarch --disable-werror --enable-cet --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-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-  
--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-serialization=2  
Thread model: posix  
Supported LTO compression algorithms: zlib zstd  
gcc version 11.3.0 (Ubuntu 11.3.0-1ubuntu1~22.04)  
-----  
-----
```

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SPEC CPU® 2017 Floating Point Speed Result

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Laptop Rubens

SPECspeed® 2017_fp_base = 3.11

SPECspeed® 2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: Laptop Rubens

Tested by: Laptop Rubens

Test Date: May-2023

Hardware Availability:

Software Availability:

Compiler Version Notes (Continued)

Fortran, C | 621.wrf_s(base) 628.pop2_s(base)

Using built-in specs.

COLLECT_GCC=/usr/bin/gfortran

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-n-amdhsa

OFFLOAD_TARGET_DEFAULT=1

Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntul~22.04'

--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr

--with-gcc-major-version-only --program-suffix=-11 --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

--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --enable-cet --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-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-n-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr

--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-serialization=2

Thread model: posix

Supported LTO compression algorithms: zlib zstd

gcc version 11.3.0 (Ubuntu 11.3.0-lubuntul~22.04)

Using built-in specs.

COLLECT_GCC=/usr/bin/gcc

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper

OFFLOAD_TARGET_NAMES=nvptx-none:amdgc-n-amdhsa

OFFLOAD_TARGET_DEFAULT=1

Target: x86_64-linux-gnu

Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntul~22.04'

--with-bugurl=file:///usr/share/doc/gcc-11/README.Bugs

--enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,m2 --prefix=/usr

--with-gcc-major-version-only --program-suffix=-11 --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

--enable-libphobos-checking=release --with-target-system-zlib=auto --enable-objc-gc=auto

--enable-multiarch --disable-werror --enable-cet --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-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-n-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr

--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-serialization=2

Thread model: posix

Supported LTO compression algorithms: zlib zstd

gcc version 11.3.0 (Ubuntu 11.3.0-lubuntul~22.04)

Base Compiler Invocation

C benchmarks:

gcc

(Continued on next page)

SPEC CPU®2017 Floating Point Speed Result

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Laptop Rubens

SPECspeed®2017_fp_base = 3.11

SPECspeed®2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: Laptop Rubens

Tested by: Laptop Rubens

Test Date: May-2023

Hardware Availability:

Software Availability:

Base Compiler Invocation (Continued)

Fortran benchmarks:

gfortran

Benchmarks using both Fortran and C (except as noted below):

gfortran gcc

Benchmarks using Fortran, C, and C++:

g++ gcc gfortran

Base Portability Flags

603.bwaves_s: -DSPEC_LP64

607.cactuBSSN_s: -DSPEC_LP64

619.lbm_s: -DSPEC_LP64

621.wrf_s: -DSPEC_CASE_FLAG -fconvert=big-endian -DSPEC_LP64

628.pop2_s: -DSPEC_CASE_FLAG -fconvert=big-endian -DSPEC_LP64

638.imagick_s: -DSPEC_LP64

644.nab_s: -DSPEC_LP64

649.fotonik3d_s: -DSPEC_LP64

654.roms_s: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

-m64 -std=c99 -g -O3 -march=native -fno-unsafe-math-optimizations
-fno-tree-loop-vectorize -fopenmp -DSPEC_OPENMP

Fortran benchmarks:

-m64 -g -O3 -march=native -fno-unsafe-math-optimizations
-fno-tree-loop-vectorize -DSPEC_OPENMP -fopenmp

Benchmarks using both Fortran and C:

621.wrf_s: -m64 -std=c99 -g -O3 -march=native
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize
-DSPEC_OPENMP -fopenmp

628.pop2_s: Same as 621.wrf_s

Benchmarks using Fortran, C, and C++:

-m64 -std=c++03 -std=c99 -g -O3 -march=native
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize -fopenmp

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SPEC CPU®2017 Floating Point Speed Result

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SPECspeed®2017_fp_base = 3.11

SPECspeed®2017_fp_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Sponsor: Laptop Rubens

Tested by: Laptop Rubens

Test Date: May-2023

Hardware Availability:

Software Availability:

Base Optimization Flags (Continued)

Benchmarks using Fortran, C, and C++ (continued):

-DSPEC_OPENMP

Base Other Flags

C benchmarks:

-fallow-argument-mismatch -fcommon

Fortran benchmarks:

-fallow-argument-mismatch -fcommon

Benchmarks using both Fortran and C (except as noted below):

-fallow-argument-mismatch -fcommon

Benchmarks using Fortran, C, and C++:

-fallow-argument-mismatch -fcommon

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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 v1.1.9 on 2023-05-19 18:31:17-0300.

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