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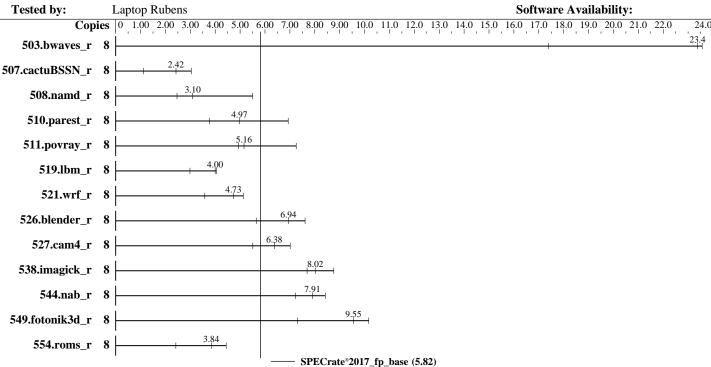
## Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base = 5.82

SPECrate<sup>®</sup>2017\_fp\_peak = Not Run

**Test Date:** May-2023 CPU2017 License: nnn (Your SPEC license number)

**Test Sponsor:** Laptop Rubens Hardware Availability: Laptop Rubens **Software Availability:** 



	Hardware	Software				
CPU Name:	Intel Core i7-2620M	OS:	Ubuntu 22.04.2 LTS			
Max MHz:			5.15.90.1-microsoft-standard-WSL2			
Nominal:		Compiler:	C/C++/Fortran: Version 7.2.1 of GCC, the			
Enabled:	cores, 1 chip, threads/core		GNU Compiler Collection			
Orderable:		Parallel:	No			
Cache L1:		Firmware:				
L2:		File System:	ext4			
L3:		System State:	Run level 5 (add definition here)			
Other:		Base Pointers:	64-bit			
Memory:	7.733 GB fixme: If using DDR4, the format is:	Peak Pointers:	Not Applicable			
	'N GB (N x N GB nRxn PC4-nnnnX-X)'	Other:				
Storage:	1007 GB add more disk info here	Power Management:				

1007 GB add more disk info here Power Management: --

Other:

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#### **Results Table**

	Base						Peak							
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
503.bwaves_r	8	3404	23.6	<u>3431</u>	<u>23.4</u>	4616	17.4							
507.cactuBSSN_r	8	<u>4177</u>	2.42	9055	1.12	3331	3.04							
508.namd_r	8	1381	5.50	3083	2.46	2453	3.10							
510.parest_r	8	3019	6.93	5537	3.78	<u>4210</u>	<u>4.97</u>							
511.povray_r	8	2575	7.25	3793	4.93	3622	<u>5.16</u>							
519.lbm_r	8	2084	4.05	2825	2.99	<u>2109</u>	4.00							
521.wrf_r	8	3493	5.13	5005	3.58	<u>3786</u>	<u>4.73</u>							
526.blender_r	8	1601	7.61	2158	5.65	<u>1754</u>	<u>6.94</u>							
527.cam4_r	8	1995	7.01	2539	5.51	<u>2195</u>	<u>6.38</u>							
538.imagick_r	8	2270	8.77	2587	7.69	2480	<u>8.02</u>							
544.nab_r	8	1599	8.42	1865	7.22	<u>1703</u>	<u>7.91</u>							
549.fotonik3d_r	8	3065	10.2	4272	7.30	3263	9.55							
554.roms_r	8	2862	4.44	5256	2.42	3308	3.84							

**SPECrate**\*2017\_fp\_base = 5.82

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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 runcpu before the start of the run: LD LIBRARY PATH = "/usr/lib64/:/usr/lib/:/lib64"

#### **Platform Notes**

Sysinfo program /usr/local/spec\_cpu2017/bin/sysinfo Rev: r6732 of 2022-11-07 fe91c89b7ed5c36ae2c92cc097bec197 running on NotebookRubens Fri May 26 23:30:05 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-Oubuntu3.9)
- 12. Services, from systematl list-unit-files
- 13. Linux kernel boot-time arguments, from /proc/cmdline
- 14. sysctl

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Test Date: May-2023

Test Sponsor:Laptop RubensHardware Availability:Tested by:Laptop RubensSoftware Availability:

```
Platform Notes (Continued)
```

```
15. /sys/kernel/mm/transparent_hugepage
16. /sys/kernel/mm/transparent_hugepage/khugepaged
17. OS release
18. Disk information
19. dmidecode
 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
  23:30:05 up 1 day, 19:13, 3 users, load average: 0.00, 0.00, 0.00
 USER TTY
               FROM LOGIN@
                                          IDLE JCPU PCPU WHAT
                                           2days 0.11s 0.09s -bash
 rubens
         pts/1
                                  Wed18
 rubens pts/2 -
                                  00:17
                                           5.00s 3.02s 0.78s sudo -i
 rubens
        pts/6
                                  Thu12
                                          1:14m 2.47s 4.58s sudo -i
_____
3. Username
 From environment variable $USER: root
 From the command 'logname':
                                rubens
4. ulimit -a
 time(seconds)
                    unlimited
 file(blocks)
                   unlimited
                    unlimited
 data(kbytes)
 stack(kbytes)
                    8192
 coredump(blocks) 0
 memory(kbytes)
                     unlimited
 locked memory(kbytes) 1013600
 process
                    31649
 nofiles
                     1024
                     unlimited
 vmemory(kbytes)
 locks
                     unlimited
 rtprio
5. sysinfo process ancestry
 /lib/systemd/systemd --system --deserialize 21
 /init.
 /init
/init
 -bash
sudo -i
sudo -i
 -bash
\verb|runcpu| --config=rubens-tryl| --reportable| --iterations=3 | fprate|
runcpu --configfile rubens-tryl --reportable --iterations 3 --nopower --runmode rate --tune base --size
  refrate fprate --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.073/templogs/preenv.fprate.073.0.log
  --lognum 073.0 --from_runcpu 2
specperl $SPEC/bin/sysinfo
$SPEC = /usr/local/spec_cpu2017
6. /proc/cpuinfo
                  : Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
```

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```
Platform Notes (Continued)
```

```
vendor_id
                   : GenuineIntel
   cpu family
                   : 42
   model
   stepping
                   : 7
                   : 0xffffffff
   microcode
                   : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapqs itlb_multihit
   bugs
                    mmio_unknown
   cpu cores
   siblings
   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:
                                  x86_64
 Architecture:
  CPU op-mode(s):
                                   32-bit, 64-bit
 Address sizes:
                                  36 bits physical, 48 bits virtual
 Byte Order:
                                  Little Endian
  CPU(s):
 On-line CPU(s) list:
 Vendor ID:
                                  GenuineIntel
                                  Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
 Model name:
 CPU family:
 Model:
                                  42
 Thread(s) per core:
 Core(s) per socket:
 Socket(s):
 Stepping:
 BogoMIPS:
                                  5387.75
 Flags:
                                  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 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
 Lld cache:
                                  64 KiB (2 instances)
 Lli cache:
                                  64 KiB (2 instances)
 L2 cache:
                                  512 KiB (2 instances)
                                  4 MiB (1 instance)
 L3 cache:
 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, PBRSB-eIBRS Not affected
  Vulnerability Srbds:
                                  Not affected
 Vulnerability Tsx async abort: Not affected
```

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Test Sponsor:Laptop RubensHardware Availability:Tested by:Laptop RubensSoftware Availability:

#### **Platform Notes (Continued)**

```
From lscpu --cache:
                                         LEVEL SETS PHY-LINE COHERENCY-SIZE
    NAME ONE-SIZE ALL-SIZE WAYS TYPE
                                           1 64
    L1d 32K 64K 8 Data
                                                        1
                     64K 8 Instruction
    T.1 i
             32K
                                            1
                                               64
                                                         1
                                                                      64
                    512K
                            8 Unified
                                            2 512
    L2
            256K
                                                                      64
    T.3
                     4M 16 Unified
                                           3 4096
8. numactl warning
Unable to get information from 'numactl --hardware'. Please consider installing numactl.
9. /proc/meminfo
                8108808 kB
  MemTotal:
10. who -r
 run-level 5 May 24 18:09
______
11. Systemd service manager version: systemd 249 (249.11-Oubuntu3.9)
 Default Target Status
 graphical
              running
12. Services, from systemctl list-unit-files
 STATE
                UNIT FILES
               apparmor console-setup cron dmesg e2scrub_reap getty@ irqbalance keyboard-setup rsyslog
                setvtrgb snapd systemd-pstore systemd-resolved systemd-timesyncd
 enabled-runtime console-getty 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
  indirect
                cryptdisks cryptdisks-early hwclock networkd-dispatcher rc rcS screen-cleanup sudo
 masked
                systemd-binfmt ua-reboot-cmds ubuntu-advantage ufw unattended-upgrades 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
 vm.compaction proactiveness
                                 20
 vm.dirty_background_bytes
                                  Ω
 vm.dirty_background_ratio
                                 10
 vm.dirty_bytes
```

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**Test Date:** CPU2017 License: nnn (Your SPEC license number) May-2023

**Test Sponsor:** Laptop Rubens Hardware Availability: **Tested by:** Laptop Rubens **Software Availability:** 

#### **Platform Notes (Continued)**

vm.dirty_expire_centisecs	3000
vm.dirty_ratio	20
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

always defer defer+madvise [madvise] never [always] madvise never defrag

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 max\_ptes\_none 256 max\_ptes\_shared max\_ptes\_swap 64 pages\_to\_scan 10000 scan sleep millisecs

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 79G 878G 9% /

#### 19. dmidecode

Additional information from dmidecode 3.3 follows. WARNING: Use caution when you interpret this section. The 'dmidecode' 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**

\_\_\_\_\_ 519.lbm\_r(base) 538.imagick\_r(base) 544.nab\_r(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:amdgcn-amdhsa

OFFLOAD\_TARGET\_DEFAULT=1 Target: x86\_64-linux-gnu

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SPECrate®2017\_fp\_peak = Not Run

5.82

CPU2017 License: nnn (Your SPEC license number)

Test Date: May-2023

Test Sponsor:Laptop RubensHardware Availability:Tested by:Laptop RubensSoftware Availability:

#### **Compiler Version Notes (Continued)**

```
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
  --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=qnu --enable-libstdcxx-debuq
  --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,amdgcn-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-lubuntu1~22.04)
______
              508.namd_r(base) 510.parest_r(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:amdgcn-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,amdgcn-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 11.3.0-1ubuntu1~22.04)
______
C++, C | 511.povray_r(base) 526.blender_r(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:amdgcn-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
```

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## Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base =

5.82

May-2023

SPECrate®2017\_fp\_peak = Not Run

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Test Date: Hardware Availability:

**Test Sponsor:** Laptop Rubens **Tested by:** Laptop Rubens

Software Availability:

```
Compiler Version Notes (Continued)
  --enable-linker-build-id --libexecdir=/usr/lib --without-included-gettext --enable-threads=posix
  --libdir=/usr/lib --enable-nls --enable-bootstrap --enable-clocale=qnu --enable-libstdcxx-debuq
  --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,amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr
  --without-cuda-driver --enable-checking=release --build=x86_64-linux-qnu --host=x86_64-linux-qnu
  --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-lubuntu1~22.04)
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper
{\tt OFFLOAD\_TARGET\_NAMES=nvptx-none:} amd {\tt gcn-amdhsa}
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
  --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,amdgcn-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-lubuntu1~22.04)
______
C++, C, Fortran | 507.cactuBSSN_r(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:amdgcn-amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
  --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,amdgcn-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
```

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## Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base =

SPECrate®2017\_fp\_peak = Not Run

5.82

CPU2017 License: nnn (Your SPEC license number)

Test Date: May-2023

Test Sponsor:Laptop RubensHardware Availability:Tested by:Laptop RubensSoftware Availability:

#### **Compiler Version Notes (Continued)**

```
--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-lubuntu1~22.04)
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:amdgcn-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=qnu --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,amdgcn-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-lubuntu1~22.04)
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:amdgcn-amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
  --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,amdgcn-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-lubuntu1~22.04)
______
            503.bwaves_r(base) 549.fotonik3d_r(base) 554.roms_r(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:amdgcn-amdhsa
OFFLOAD_TARGET_DEFAULT=1
```

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## Laptop Rubens

SPECrate®2017\_fp\_base =

5.82

SPECrate®2017\_fp\_peak = Not Run

**CPU2017 License:** nnn (Your SPEC license number)

Test Date: May-2023

**Test Sponsor:** Laptop Rubens **Tested by:** Laptop Rubens

Hardware Availability: Software Availability:

#### **Compiler Version Notes (Continued)**

```
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
  --e nable-offload-targets=nvptx-none=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr, amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr/amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-11-xKiWfi/gcc-1
   --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-lubuntu1~22.04)
_______
Fortran, C 521.wrf_r(base) 527.cam4_r(base)
Using built-in specs.
COLLECT_GCC=/usr/bin/gfortran
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/11/lto-wrapper
{\tt OFFLOAD\_TARGET\_NAMES=nvptx-none:} amd {\tt gcn-amdhsa}
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
   --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,amdgcn-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-lubuntu1~22.04)
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:amdgcn-amdhsa
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu 11.3.0-lubuntu1~22.04'
   --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
```

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### Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base = 5.82

SPECrate<sup>®</sup>2017\_fp\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Date: May-2023

**Test Sponsor:** Laptop Rubens **Tested by:** Laptop Rubens

Hardware Availability: Software Availability:

#### **Compiler Version Notes (Continued)**

- $--enable-lib phobos-checking=release \ --with-target-system-zlib=auto \ --enable-objc-gc=autoble-objc-gc=aut$
- --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, amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr, amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-11.3.0/debian/tmp-gcn/usr, amdgcn-amdhsa=/build/gcc-11-xKiWfi/gcc-11-xXiWfi
- --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 qcc version 11.3.0 (Ubuntu 11.3.0-lubuntu1~22.04)

\_\_\_\_\_\_

### **Base Compiler Invocation**

C benchmarks:

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Benchmarks using both Fortran and C:

gfortran gcc

Benchmarks using both C and C++:

g++ gcc

Benchmarks using Fortran, C, and C++:

g++ gcc gfortran

### **Base Portability Flags**

503.bwaves\_r: -DSPEC\_LP64 507.cactuBSSN\_r: -DSPEC\_LP64 508.namd\_r: -DSPEC\_LP64 510.parest\_r: -DSPEC\_LP64 511.povray\_r: -DSPEC\_LP64

519.lbm\_r: -DSPEC\_LP64

521.wrf\_r:-DSPEC\_CASE\_FLAG -fconvert=big-endian -DSPEC\_LP64

526.blender\_r: -funsigned-char -DSPEC\_LINUX -DSPEC\_LP64

527.cam4\_r: -DSPEC\_CASE\_FLAG -DSPEC\_LP64

538.imagick\_r: -DSPEC\_LP64 544.nab\_r: -DSPEC\_LP64 549.fotonik3d\_r: -DSPEC\_LP64

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## Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base = 5.82

SPECrate<sup>®</sup>2017\_fp\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

Test Date: May-2023

Test Sponsor:Laptop RubensHardware Availability:Tested by:Laptop RubensSoftware Availability:

### **Base Portability Flags (Continued)**

554.roms r: -DSPEC LP64

### **Base Optimization Flags**

#### C benchmarks:

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

#### C++ benchmarks:

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

#### Fortran benchmarks:

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

#### Benchmarks using both Fortran and C:

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

#### Benchmarks using both C and C++:

- -m64 -std=c++03 -std=c99 -g -O3 -march=native -fno-unsafe-math-optimizations -fno-tree-loop-vectorize
- Benchmarks using Fortran, C, and C++:
- -m64 -std=c++03 -std=c99 -q -03 -march=native
- -fno-unsafe-math-optimizations -fno-tree-loop-vectorize

### **Base Other Flags**

#### C benchmarks:

-fallow-argument-mismatch

#### C++ benchmarks:

-fallow-argument-mismatch

#### Fortran benchmarks:

-fallow-argument-mismatch

#### Benchmarks using both Fortran and C:

-fallow-argument-mismatch

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## Laptop Rubens

SPECrate<sup>®</sup>2017\_fp\_base = 5.82

SPECrate<sup>®</sup>2017\_fp\_peak = Not Run

**CPU2017 License:** nnn (Your SPEC license number)

**Test Date:** May-2023

**Test Sponsor:** Laptop Rubens **Tested by:** Laptop Rubens

Hardware Availability: Software Availability:

### **Base Other Flags (Continued)**

Benchmarks using both C and C++:
-fallow-argument-mismatch

Benchmarks using Fortran, C, and C++:
-fallow-argument-mismatch

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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 2023-05-26 23:30:04-0300.

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