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Laptop Rubens

SPECrate[®]2017_fp_base = 6.25

SPECrate®2017_fp_peak = Not Run

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

 Test Sponsor:
 Laptop Rubens
 Hardware Availability:

 Tested by:
 Laptop Rubens
 Software Availability:

 Copies
 0
 2.00
 4.00
 6.00
 8.00
 10.0
 12.0
 14.0
 16.0
 18.0
 20.0
 22.0
 24.0
 26.0
 28.0

 503.bwaves_r
 4
 22.5

 507.cactuBSSN_r
 4
 2.96





----- SPECrate*2017_fp_base (6.25)

Hardware Software University 2000M

CPU Name: Intel Core i7-2620M Max MHz:

Nominal: Enabled: cores, 1 chip, threads/core

Orderable: Cores, 1 cmp, threads/core

Cache L1: L2: L3:

Other: Memory: 7.733 GB fixme: If using DDR4, the format is:

'N GB (N x N GB nRxn PC4-nnnnX-X)'

Storage: 1007 GB add more disk info here Other:

OS: Ubuntu 22.04.2 LTS

5.15.90.1-microsoft-standard-WSL2 Compiler: C/C++/Fortran: Version 7.2.1 of GCC, the

GNU Compiler Collection

Parallel: No

Firmware:

File System: ext4

System State: Run level 5 (add definition here)

Base Pointers: 64-bit

Peak Pointers: Not Applicable

Other:

Power Management: --

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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	4	<u>1786</u>	<u>22.5</u>	1435	28.0	1823	22.0							
507.cactuBSSN_r	4	1559	3.25	<u>1714</u>	2.96	1760	2.88							
508.namd_r	4	929	4.09	673	5.65	<u>711</u>	<u>5.34</u>							
510.parest_r	4	1699	6.16	1501	6.97	<u>1607</u>	<u>6.51</u>							
511.povray_r	4	<u>1494</u>	<u>6.25</u>	1350	6.92	1883	4.96							
519.lbm_r	4	1045	4.03	<u>1047</u>	<u>4.03</u>	1406	3.00							
521.wrf_r	4	1792	5.00	<u>1908</u>	<u>4.70</u>	2441	3.67							
526.blender_r	4	840	7.26	<u>908</u>	<u>6.71</u>	976	6.24							
527.cam4_r	4	1050	6.67	<u>1104</u>	<u>6.34</u>	1668	4.19							
538.imagick_r	4	1190	8.36	<u>1375</u>	<u>7.24</u>	2959	3.36							
544.nab_r	4	812	8.29	<u>977</u>	<u>6.89</u>	1225	5.50							
549.fotonik3d_r	4	1561	9.99	<u>1699</u>	<u>9.18</u>	2681	5.81							
554.roms_r	4	1382	4.60	<u>1528</u>	<u>4.16</u>	1861	3.41							

SPECrate*2017_fp_base = **6.25**

SPECrate[®]2017_fp_peak = Not Run

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 Tue May 23 01:18:59 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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CPU2017 License: nnn (Your SPEC license number)

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
  01:18:59 up 9:31, 4 users, load average: 0.08, 0.05, 0.12
               FROM LOGIN@
 USER TTY
                                          IDLE JCPU PCPU WHAT
                                  Mon10 15:15m 0.08s 0.05s -bash
 rubens
         pts/1
 rubens pts/2 -
                                  Mon10 14:06m 9.76s 8.80s sudo -i
 root pts/3 rubens pts/5
                                  Mon11
                                          6:50 5.35s 5.13s -bash
                                  00:22 11.00s 3.63s 0.64s 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)
coredump(blocks)

(blocks)
unlimited
 locked memory(kbytes) 1013600
 process 31649
                     1024
 nofiles
 vmemory(kbytes)
                    unlimited
 locks
                     unlimited
 rtprio
______
5. sysinfo process ancestry
 /sbin/init
 /init
/init
 /init
-bash
sudo -i
sudo -i
-bash
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/CPU2017.068/templogs/preenv.fprate.068.0.log
  --lognum 068.0 --from_runcpu 2
 specperl $SPEC/bin/sysinfo
$SPEC = /usr/local/spec_cpu2017
6. /proc/cpuinfo
```

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

```
Platform Notes (Continued)
```

```
: Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
   model name
   vendor_id
                   : GenuineIntel
   cpu family
                  : 6
   model
                  : 42
   stepping
                  : 0xffffffff
   microcode
   bugs
                  : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
   cpu cores
                   : 4
   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:
 Architecture:
 CPU op-mode(s):
                                 32-bit, 64-bit
                                 36 bits physical, 48 bits virtual
 Address sizes:
  Byte Order:
                                 Little Endian
 CPU(s):
 On-line CPU(s) list:
                                 0 - 3
 Vendor ID:
                                 GenuineIntel
                                 Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
 Model name:
 CPU family:
                                 42
 Model:
 Thread(s) per core:
 Core(s) per socket:
                                 1
 Socket(s):
 Stepping:
 BogoMIPS:
                                 fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov pat pse36
 Flags:
                                  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)
 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, PBRSB-eIBRS Not affected
  Vulnerability Srbds:
                                 Not affected
 Vulnerability Tsx async abort: Not affected
```

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Platform Notes (Continued)

```
From lscpu --cache:
    NAME ONE-SIZE ALL-SIZE WAYS TYPE
                                          LEVEL SETS PHY-LINE COHERENCY-SIZE
                                            1 64
1 64
    T<sub>1</sub>1d
         32K 64K 8 Data
                                                          1
              32K
                      64K
                          8 Institute
8 Unified
                                                            1
                                            2 512
             256K
                                                                         64
    T.2
                     512K
              4M
                      4M 16 Unified
                                             3 4096
                                                                         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 22 10:03
11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.9)
 Default Target Status
 graphical
                running
12. Services, from systemctl list-unit-files
                UNIT FILES
 enabled
                 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.
                 uuidd
                 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
                                   2.0
 vm.compaction_proactiveness
  vm.dirty_background_bytes
                                   0
 vm.dirty_background_ratio
```

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SPECrate®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:

Platform Notes (Continued)

vm.dirty_bytes	0
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

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 71G 885G 8% /

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)

OFFLOAD_TARGET_DEFAULT=1

Compiler Version Notes

C | 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

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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)
_______
                      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
{\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)
______
                      511.povray_r(base) 526.blender_r(base)
C++, C
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
```

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Laptop Rubens

SPECrate®2017_fp_base = 6.25

SPECrate®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:

Compiler Version Notes (Continued)

```
--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-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-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)
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
```

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Laptop Rubens

SPECrate[®]2017_fp_base = 6.25

SPECrate®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:

Compiler Version Notes (Continued)

```
--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-pluqin --enable-default-pie --with-system-zlib
    --enable-libphobos-checking = release \ --with-target-system-zlib= auto \ --enable-objc-gc= au
    --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-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, 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/gc
    --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
```

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Laptop Rubens

SPECrate[®]2017_fp_base = 6.25

SPECrate®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:

Compiler Version Notes (Continued)

```
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-qnu-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, 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
   --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
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-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=gnu --enable-libstdcxx-debug
   --enable-libstdcxx-time=yes --with-default-libstdcxx-abi=new --enable-gnu-unique-object
```

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Laptop Rubens

SPECrate[®]2017_fp_base = 6.25

SPECrate®2017_fp_peak = Not Run

May-2023

Test Date: CPU2017 License: nnn (Your SPEC license number)

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

Compiler Version Notes (Continued)

--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)

Base Compiler Invocation

C benchmarks:

qcc

C++ benchmarks:

Fortran benchmarks:

qfortran

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

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Laptop Rubens

SPECrate[®]2017_fp_base = 6.25

SPECrate[®]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)

549.fotonik3d_r: -DSPEC_LP64 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 -g -O3 -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[®]2017_fp_base = 6.25

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:

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 2023-05-23 01:18:57-0300.

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