

SPEC CPU®2017 Integer Speed Result

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Laptop Rubens

SPECspeed®2017_int_base = 3.42

SPECspeed®2017_int_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

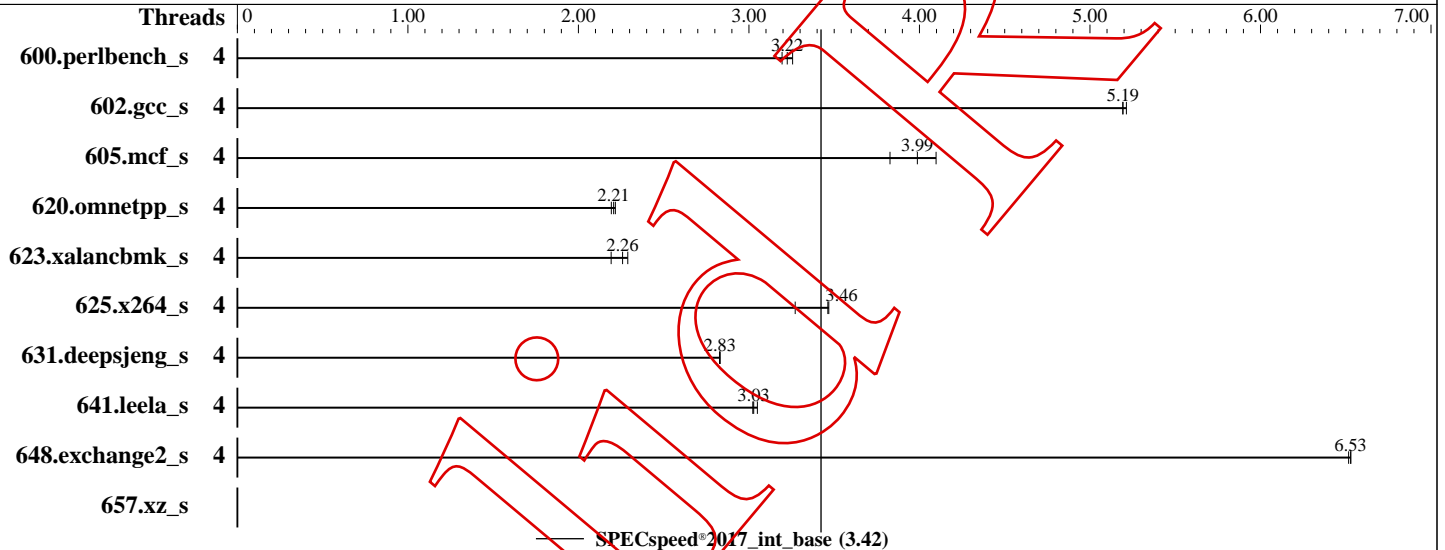
Test Sponsor: Laptop Rubens

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-nnnnX-X)'
Storage: 1007 GB add more disk info here
Other:

Software

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: Yes
Firmware:
File System: ext4
System State: Run level 5 (add definition here)
Base Pointers: 64-bit
Peak Pointers: Not Applicable
Other:
Power Management: --

Errors

'reportable' flag not set during run
657.xz_s (base) did not have enough runs!

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Results Table

Benchmark	Base							Peak						
	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Threads	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
600.perlbench_s	4	545	3.26	<u>550</u>	<u>3.22</u>	556	3.19							
602.gcc_s	4	767	5.19	764	5.21	<u>767</u>	<u>5.19</u>							
605.mcf_s	4	1152	4.10	1234	3.83	<u>1184</u>	<u>3.99</u>							
620.omnetpp_s	4	736	2.22	<u>739</u>	<u>2.21</u>	744	2.19							
623.xalancbmk_s	4	619	2.29	<u>627</u>	<u>2.26</u>	646	2.19							
625.x264_s	4	<u>509</u>	<u>3.46</u>	509	3.47	539	3.27							
631.deepsjeng_s	4	506	2.83	<u>507</u>	2.83	<u>506</u>	<u>2.83</u>							
641.leela_s	4	<u>563</u>	<u>3.03</u>	564	3.02	559	3.05							
648.exchange2_s	4	<u>450</u>	<u>6.53</u>	450	6.53	451	6.52							
657.xz_s														

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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 19 00:28:10 2023

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

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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
18. Disk information

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Hardware Availability:

Software Availability:

Platform Notes (Continued)

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
00:28:10 up 3 days, 13:21, 2 users, load average: 0.08, 0.06, 0.36
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU WHAT
rubens    pts/1    -                Mon11    3days  0.27s  0.11s  bash
rubens    pts/2    -                Mon11    3.00s  3.03s  4.90s  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=3 600.perlbench_s 602.gcc_s 605.mcf_s 620.omnetpp_s
623.xalancbmk_s 625.x264_s 631.deepsjeng_s 641.leela_s 648.exchange2_s 998.speckrand_is
runcpu --configfile rubens-try1 --noreportable --iterations 3 --noreportable --nopower --runmode speed
--tune base --size refspeed 600.perlbench_s 602.gcc_s 605.mcf_s 620.omnetpp_s 623.xalancbmk_s 625.x264_s
631.deepsjeng_s 641.leela_s 648.exchange2_s 998.speckrand_is --nopreenv --note-preenv --logfile
$SPEC/tmp/CPU2017.057/temlogs/preenv.intspeed.057.0.log --lognum 057.0 --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
model          : 42
```

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Software Availability:

Platform Notes (Continued)

```
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: 5387.76
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
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
L1d	32K	64K	8	Data	1	64	1	64

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Platform Notes (Continued)

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 15 11:07

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-cvs-cleanup 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	uuid
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
vm.dirty_writeback_centisecs	500

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Platform Notes (Continued)

```
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+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  400G  917G   5% /
-----
```

```
-----
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

```
=====
C | 600.perlbench_s(base) 602.gcc_s(base) 605.mcf_s(base) 625.x264_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-n-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

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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,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 11.3.0-1ubuntu1~22.04)

```
=====  
C++ | 620.omnetpp_s(base) 625.xalanbm_s(base) 631.deepsjeng_s(base) 641.leela_s(base)  
=====
```

Using built-in specs.

COLLECT_GCC=/usr/bin/g++

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-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 11.3.0-1ubuntu1~22.04'

--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-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 11.3.0-1ubuntu1~22.04)

```
=====  
Fortran | 648.exchange2_s(base)  
=====
```

Using built-in specs.

COLLECT_GCC=/usr/bin/gfortran

COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/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 11.3.0-1ubuntu1~22.04'

--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

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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,amdgc-nv-none=/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)
```

Base Compiler Invocation

C benchmarks (except as noted below):

gcc

C++ benchmarks:

g++

Fortran benchmarks:

gfortran

Base Portability Flags

```
600.perlbench_s: -DSPEC_LINUX_X64 -DSPEC_LP64
602.gcc_s: -DSPEC_LP64
605.mcf_s: -DSPEC_LP64
620.omnetpp_s: -DSPEC_LP64
623.xalanrbcmk_s: -DSPEC_LINUX -DSPEC_LP64
625.x264_s: -DSPEC_LP64
631.deepsjeng_s: -DSPEC_LP64
641.leela_s: -DSPEC_LP64
648.exchange2_s: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:

```
600.perlbench_s: -m64 -std=c99 -g -O3 -march=native
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize
-fopenmp -DSPEC_OPENMP -fno-strict-aliasing
-fgnu89-inline
```

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Base Optimization Flags (Continued)

602.gcc_s: Same as 600.perlbench_s

605.mcf_s: Same as 600.perlbench_s

625.x264_s: Same as 600.perlbench_s

C++ benchmarks:

-m64 -std=c++03 -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

Base Other Flags

C benchmarks (except as noted below):

-fallow-argument-mismatch -fcommon

C++ benchmarks:

-fallow-argument-mismatch -fcommon

Fortran benchmarks:

-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.

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