

# SPEC CPU®2017 Integer Speed Result

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## Laptop Rubens

SPECspeed®2017\_int\_base = 3.35

SPECspeed®2017\_int\_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

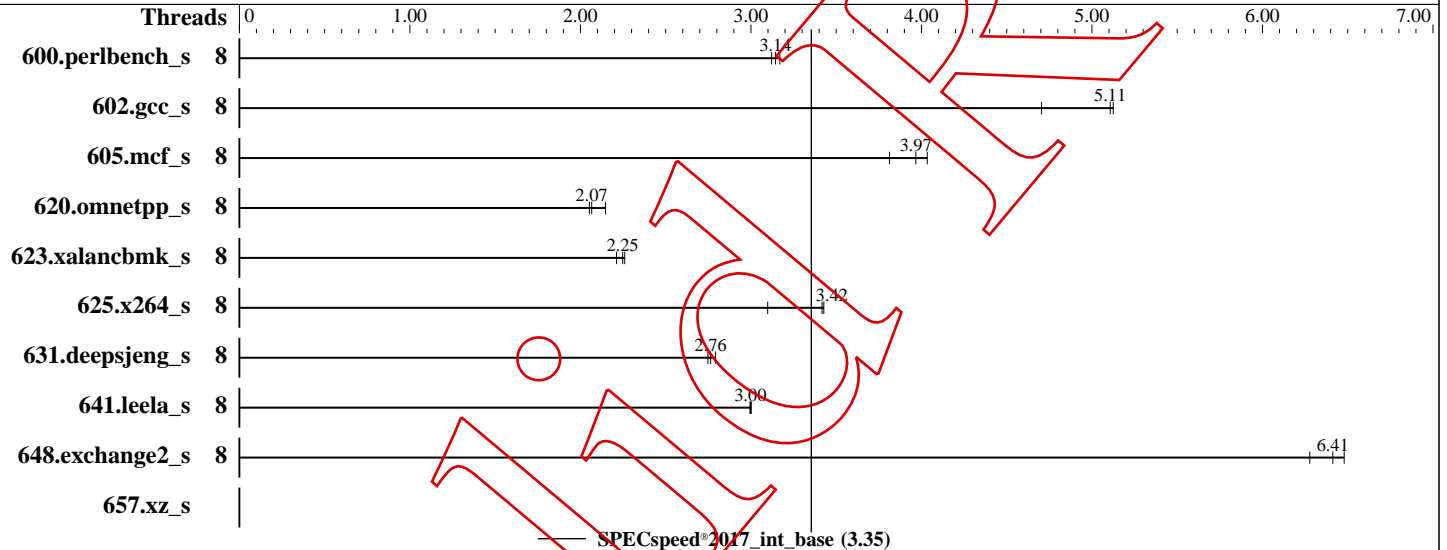
Test Sponsor: Laptop Rubens

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	8	569	3.12	<u>565</u>	<u>3.14</u>	560	3.17							
602.gcc_s	8	846	4.70	777	5.12	<u>780</u>	<u>5.11</u>							
605.mcf_s	8	1238	3.81	1170	4.03	<u>1190</u>	<u>3.97</u>							
620.omnetpp_s	8	795	2.05	760	2.15	<u>789</u>	<u>2.07</u>							
623.xalancbmk_s	8	627	2.26	<u>630</u>	<u>2.25</u>	641	2.21							
625.x264_s	8	<u>516</u>	<u>3.42</u>	569	3.10	515	3.43							
631.deepsjeng_s	8	513	2.79	<u>518</u>	<u>2.76</u>	521	2.75							
641.leela_s	8	568	3.00	570	2.99	<u>569</u>	<u>3.00</u>							
648.exchange2_s	8	454	6.48	468	6.28	<u>458</u>	<u>6.41</u>							
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 fe91c8987ed5c36ae2c92cc097bec197  
running on NotebookRubens Wed May 24 00:55:49 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
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  
00:55:49 up 1 day, 9:08, 3 users, load average: 0.02, 0.01, 0.00  
USER TTY FROM LOGIN@ IDLE JCPU PCPU WHAT  
rubens pts/1 - Mon10 38:52m 0.08s 0.05s -bash  
rubens pts/2 - 20:28 3:50m 0.53s 0.50s sudo -i  
rubens pts/4 - 20:47 2.00s 3.33s 0.91s 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.specrand\_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.specrand\_is --nopreenv --note-preenv --logfile  
\$SPEC/tmp/CPU2017.069/temlogs/preenv.intspeed.069.0.log --lognum 069.0 --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:               5387.76
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

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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 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

STATE	UNIT FILES
enabled	apparmor console-setup cron dmesg e2scrub_reap getty@ irqbalance keyboard-setup rsyslog setvtrg 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	uuid
masked	cryptdisks cryptdisks-early hwclock networkd-dispatcher rc rcS screen-cleanup sudo 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
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   76G  881G   8% /
```

```
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      | 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- 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-xKiWfi/gcc-11-11.3.0/debian/tmp-nvptx/usr,amdgc-ndhsa=/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) 623.xalancbmk\_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-ndhsa

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-ndhsa=/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-ndhsa

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

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## Compiler Version Notes (Continued)

```
--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)
```

## 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.xalancbmk_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](mailto:info@spec.org).

Tested with SPEC CPU®2017 v1.1.9 on 2023-05-24 00:55:48-0300.

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