SPEC CPU®2017 Integer Rate Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

Laptop Rubens

SPECrate®2017_int_base =   5.33

SPECrate®2017_int_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

- 500.perlbench_r 4 — 5.34
- 502.gcc_r 4 — 5.62
- 505.mcf_r 4 — 5.37
- 520.omnetpp_r 4 — 3.10
- 523.xalancbmk_r 4 — 3.35
- 525.x264_r 4 — 5.98
- 531.deepsjeng_r 4 — 5.71
- 541.leela_r 4 — 6.20
- 548.exchange2_r 4 — 11.8
- 557.xz_r 4 — 4.44

SPECrate®2017_int_base (5.33)

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: No
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

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Results Table

Benchmark	Base Copies	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Base Seconds	Base Ratio	Peak Copies	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio	Peak Seconds	Peak Ratio
500.perlbench_r	4	1871	3.40	**1192**	**5.34**	1190	5.35							
502.gcc_r	4	2629	2.15	**1008**	**5.62**	983	5.76							
505.mcf_r	4	2939	2.20	1188	5.44	**1203**	**5.37**							
520.omnetpp_r	4	4792	1.10	1677	3.13	**1695**	**3.10**							
523.xalancbmk_r	4	2871	1.47	**1260**	**3.35**	1243	3.40							
525.x264_r	4	2066	3.39	1133	6.18	**1172**	**5.98**							
531.deepsjeng_r	4	1474	3.11	**802**	**5.71**	792	5.79							
541.leela_r	4	2079	3.19	**1069**	**6.20**	1062	6.24							
548.exchange2_r	4	1754	5.97	**884**	**11.8**	862	12.2							
557.xz_r	4	2072	2.08	**974**	**4.44**	964	4.48							

SPECrate®2017_int_base =   5.33

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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 Sat May 20 16:56:41 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
```

(Continued on next page)

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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
    16:56:41 up 22:38,  2 users,  load average: 1.21, 1.13, 1.68
   USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
   rubens   pts/1    -                Fri18   22:38m  0.07s  0.05s -bash
   rubens   pts/2    -                Fri18    9.00s  3.89s  0.20s 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
 -bash
 sudo -i
 sudo -i
 -bash
 runcpu --config=rubens-try1 --iterations=3 intrate
 runcpu --configfile rubens-try1 --iterations 3 --noreportable --nopower --runmode rate --tune base --size
   refrate intrate --nopreenv --note-preenv --logfile $SPEC/tmp/CPU2017.065/templogs/preenv.intrate.065.0.log
   --lognum 065.0 --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
   stepping         : 7
   microcode        : 0xffffffff
```

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Platform Notes (Continued)

```
    bugs              : cpu_meltdown spectre_v1 spectre_v2 spec_store_bypass l1tf mds swapgs itlb_multihit
                        mmio_unknown
    cpu cores         : 2
    siblings          : 4
    1 physical ids (chips)
    4 processors (hardware threads)
    physical id 0: core ids 0-1
    physical id 0: apicids 0-3
  Caution: /proc/cpuinfo data regarding chips, cores, and threads is not necessarily reliable, especially for
  virtualized systems.  Use the above data carefully

  --------------------------------------------------------
7. lscpu

From lscpu from util-linux 2.37.2:
  Architecture:           x86_64
  CPU op-mode(s):         32-bit, 64-bit
  Address sizes:          36 bits physical, 48 bits virtual
  Byte Order:             Little Endian
  CPU(s):                 4
  On-line CPU(s) list:    0-3
  Vendor ID:              GenuineIntel
  Model name:             Intel(R) Core(TM) i7-2620M CPU @ 2.70GHz
  CPU family:             6
  Model:                  42
  Thread(s) per core:     2
  Core(s) per socket:     2
  Socket(s):              1
  Stepping:               7
  BogoMIPS:               5387.75
  Flags:                  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_l1d 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, PBRSB-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
    L1i      32K      64K    8 Instruction     1    64      1            64
    L2      256K     512K    8 Unified         2   512      1            64
```

(Continued on next page)

Laptop Rubens

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Platform Notes (Continued)

```
      L3         4M       4M   16 Unified     3 4096      1            64


    ----------------------------------------------------------
8. numactl warning

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


    ----------------------------------------------------------
9. /proc/meminfo
   MemTotal:        8108808 kB


    ----------------------------------------------------------
10. who -r
  run-level 5 May 19 18:18


    ----------------------------------------------------------
11. Systemd service manager version: systemd 249 (249.11-0ubuntu3.9)
  Default Target  Status
  graphical       running


    ----------------------------------------------------------
12. Services, from systemctl list-unit-files
   STATE             UNIT FILES
   enabled           apparmor console-setup cron dmesg e2scrub_reap getty@ irqbalance keyboard-setup
                     networkd-dispatcher rsyslog setvtrgb snapd systemd-pstore systemd-resolved
                     systemd-timesyncd ua-reboot-cmds ubuntu-advantage ufw unattended-upgrades
   enabled-runtime   console-getty netplan-ovs-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 wslg-mount
   indirect          uuidd
   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
   vm.dirtytime_expire_seconds   43200
   vm.extfrag_threshold            500
```

(Continued on next page)

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Platform Notes (Continued)

```
   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   44G  913G   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        | 500.perlbench_r(base) 502.gcc_r(base) 505.mcf_r(base) 525.x264_r(base) 557.xz_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
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
```

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Compiler Version Notes (Continued)

```
  --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++     | 520.omnetpp_r(base) 523.xalancbmk_r(base) 531.deepsjeng_r(base) 541.leela_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 11.3.0-1ubuntu1~22.04'
  --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,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)
------------------------------------------------------------------------------------------------


==================================================================================================
Fortran | 548.exchange2_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 11.3.0-1ubuntu1~22.04'
  --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
```

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Compiler Version Notes (Continued)

```
  --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)
------------------------------------------------------------------------------------------
```

Base Compiler Invocation

C benchmarks:
```
gcc
```

C++ benchmarks:
```
g++
```

Fortran benchmarks:
```
gfortran
```

Base Portability Flags

```
500.perlbench_r: -DSPEC_LINUX_X64 -DSPEC_LP64
502.gcc_r: -DSPEC_LP64
505.mcf_r: -DSPEC_LP64
520.omnetpp_r: -DSPEC_LP64
523.xalancbmk_r: -DSPEC_LINUX -DSPEC_LP64
525.x264_r: -DSPEC_LP64
531.deepsjeng_r: -DSPEC_LP64
541.leela_r: -DSPEC_LP64
548.exchange2_r: -DSPEC_LP64
557.xz_r: -DSPEC_LP64
```

Base Optimization Flags

C benchmarks:
```
-m64 -std=c99 -g -O3 -march=native -fno-unsafe-math-optimizations
-fno-tree-loop-vectorize -fno-strict-aliasing -fgnu89-inline
```

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

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Base Optimization Flags (Continued)

Fortran benchmarks:
```
-m64 -g -O3 -march=native -fno-unsafe-math-optimizations
-fno-tree-loop-vectorize
```

Base Other Flags

C benchmarks (except as noted below):
```
-fallow-argument-mismatch
```
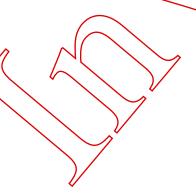
```
525.x264_r: -fallow-argument-mismatch -fcommon
```

```
557.xz_r: -fallow-argument-mismatch -fcommon
```

C++ benchmarks:
```
-fallow-argument-mismatch
```

Fortran benchmarks:
```
-fallow-argument-mismatch
```

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 2023-05-20 16:56:39-0300.
Report generated on 2023-05-21 06:08:16 by CPU2017 PDF formatter v6716.