SPEC CPU®2017 Integer Rate Result

My Corporation

SPECrate®2017_int_base = 0.00

SPECrate®2017_int_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)
Test Sponsor: My Corporation
Tested by: My Corporation

Test Date: Jun-2023
Hardware Availability:
Software Availability:

Copies	
500.perlbench_r	
502.gcc_r	
505.mcf_r	
520.omnetpp_r	
523.xalancbmk_r	
525.x264_r	
531.deepsjeng_r	
541.leela_r	
548.exchange2_r	
557.xz_r	

Hardware

CPU Name: Intel Core i7-10750H
Max MHz:
Nominal:
Enabled: cores, 1 chip, threads/core
Orderable:
Cache L1:
L2:
L3:
Other:
Memory: 15.469 GB fixme: If using DDR4, the format is: 'N GB (N x N GB nRxn PC4-nnnnX-X)'
Storage: 916 GB add more disk info here
Other:

Software

OS: Ubuntu 18.04.6 LTS 5.4.0-150-generic
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

There is no set of valid runs with the same number of copies for base
'reportable' flag not set during run
548.exchange2_r (base) did not have enough runs!
541.leela_r (base) did not have enough runs!
557.xz_r (base) did not have enough runs!
505.mcf_r (base) did not have enough runs!
520.omnetpp_r (base) did not have enough runs!
523.xalancbmk_r (base) did not have enough runs!
502.gcc_r (base) did not have enough runs!
525.x264_r (base) did not have enough runs!
500.perlbench_r (base) did not have enough runs!

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Errors (Continued)

Input set must be 'refrate' for a valid run (set to 'train' for this run)

Results Table

Benchmark	Base							Peak						
	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
500.perlbench_r														
502.gcc_r														
505.mcf_r														
520.omnetpp_r														
523.xalancbmk_r														
525.x264_r														
531.deepsjeng_r	1	41.6	0.00	41.6	0.00									
541.leela_r														
548.exchange2_r														
557.xz_r														

SPECrate®2017_int_base = 0.00

SPECrate®2017_int_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
 /media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f/spec-cpu-2017/bin/sysinfo
 Rev: r6365 of 2019-08-21 295195f888a3d7edb1e6e46a485a0011
 running on fabricio-server Wed Jun 14 21:03:43 2023

 SUT (System Under Test) info as seen by some common utilities.
 For more information on this section, see
    https://www.spec.org/cpu2017/Docs/config.html#sysinfo

 From /proc/cpuinfo
    model name : Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz
       1  "physical id"s (chips)
       12 "processors"
    cores, siblings (Caution: counting these is hw and system dependent. The following
```

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Platform Notes (Continued)

```
   excerpts from /proc/cpuinfo might not be reliable.  Use with caution.)
      cpu cores : 6
      siblings  : 12
      physical 0: cores 0 1 2 3 4 5

From lscpu:
     Architecture:            x86_64
     CPU op-mode(s):          32-bit, 64-bit
     Byte Order:              Little Endian
     CPU(s):                  12
     On-line CPU(s) list:     0-11
     Thread(s) per core:      2
     Core(s) per socket:      6
     Socket(s):               1
     NUMA node(s):            1
     Vendor ID:               GenuineIntel
     CPU family:              6
     Model:                   165
     Model name:              Intel(R) Core(TM) i7-10750H CPU @ 2.60GHz
     Stepping:                2
     CPU MHz:                 4645.810
     CPU max MHz:             5000.0000
     CPU min MHz:             800.0000
     BogoMIPS:                5199.98
     Virtualization:          VT-x
     L1d cache:               32K
     L1i cache:               32K
     L2 cache:                256K
     L3 cache:                12288K
     NUMA node0 CPU(s):       0-11
     Flags:                   fpu vme de pse tsc msr pae mce cx8 apic sep mtrr pge mca cmov
     pat pse36 clflush dts acpi mmx fxsr sse sse2 ss ht tm pbe syscall nx pdpe1gb rdtscp
     lm constant_tsc art arch_perfmon pebs bts rep_good nopl xtopology nonstop_tsc cpuid
     aperfmperf pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3 sdbg fma cx16 xtpr
     pdcm pcid sse4_1 sse4_2 x2apic movbe popcnt tsc_deadline_timer aes xsave avx f16c
     rdrand lahf_lm abm 3dnowprefetch cpuid_fault epb invpcid_single ssbd ibrs ibpb stibp
     ibrs_enhanced tpr_shadow vnmi flexpriority ept vpid ept_ad fsgsbase tsc_adjust bmi1
     avx2 smep bmi2 erms invpcid mpx rdseed adx smap clflushopt intel_pt xsaveopt xsavec
     xgetbv1 xsaves dtherm ida arat pln pts hwp hwp_notify hwp_act_window hwp_epp pku
     ospke md_clear flush_l1d arch_capabilities

/proc/cpuinfo cache data
   cache size : 12288 KB

From numactl --hardware  WARNING: a numactl 'node' might or might not correspond to a
physical chip.
```

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Platform Notes (Continued)

```
From /proc/meminfo
   MemTotal:       16220164 kB
   HugePages_Total:       0
   Hugepagesize:       2048 kB

/usr/bin/lsb_release -d
   Ubuntu 18.04.6 LTS

From /etc/*release* /etc/*version*
   debian_version: buster/sid
   os-release:
      NAME="Ubuntu"
      VERSION="18.04.6 LTS (Bionic Beaver)"
      ID=ubuntu
      ID_LIKE=debian
      PRETTY_NAME="Ubuntu 18.04.6 LTS"
      VERSION_ID="18.04"
      HOME_URL="https://www.ubuntu.com/"
      SUPPORT_URL="https://help.ubuntu.com/"

uname -a:
   Linux fabricio-server 5.4.0-150-generic #167~18.04.1-Ubuntu SMP Wed May 24 00:51:42
   UTC 2023 x86_64 x86_64 x86_64 GNU/Linux

Kernel self-reported vulnerability status:

itlb_multihit:                          KVM: Mitigation: Split huge pages
CVE-2018-3620 (L1 Terminal Fault):      Not affected
Microarchitectural Data Sampling:       Not affected
CVE-2017-5754 (Meltdown):               Not affected
mmio_stale_data:                        Mitigation: Clear CPU buffers; SMT vulnerable
retbleed:                               Mitigation: Enhanced IBRS
CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled
                                        via prctl and seccomp
CVE-2017-5753 (Spectre variant 1):      Mitigation: usercopy/swapgs barriers and __user
                                        pointer sanitization
CVE-2017-5715 (Spectre variant 2):      Mitigation: Enhanced IBRS, IBPB: conditional,
                                        RSB filling, PBRSB-eIBRS: SW sequence
srbds:                                  Mitigation: Microcode
tsx_async_abort:                        Not affected

run-level 5 Jun 14 20:43

SPEC is set to: /media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f/spec-cpu-2017
   Filesystem     Type  Size  Used Avail Use% Mounted on
   /dev/nvme0n1p1 ext4  916G   17G  853G   2%
   /media/fabricio/679cbc52-a115-43bd-b089-5d44b8abcd6f
```

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Platform Notes (Continued)

```
 From /sys/devices/virtual/dmi/id
      BIOS:    American Megatrends Inc. N.1.02 07/17/2020
      Vendor:  Avell High Performance
      Product: C62 LIV
      Product Family: C62 LIV

 Cannot run dmidecode; consider saying (as root)
    chmod +s /usr/sbin/dmidecode

 (End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
C++ | 531.deepsjeng_r(base)
------------------------------------------------------------------------------
Using built-in specs.
COLLECT_GCC=/usr/bin/g++
COLLECT_LTO_WRAPPER=/usr/lib/gcc/x86_64-linux-gnu/7/lto-wrapper
OFFLOAD_TARGET_NAMES=nvptx-none
OFFLOAD_TARGET_DEFAULT=1
Target: x86_64-linux-gnu
Configured with: ../src/configure -v --with-pkgversion='Ubuntu
  7.5.0-3ubuntu1~18.04' --with-bugurl=file:///usr/share/doc/gcc-7/README.Bugs
  --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++ --prefix=/usr
  --with-gcc-major-version-only --program-suffix=-7
  --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-libmpx --enable-plugin
  --enable-default-pie --with-system-zlib --with-target-system-zlib
  --enable-objc-gc=auto --enable-multiarch --disable-werror
  --with-arch-32=i686 --with-abi=m64 --with-multilib-list=m32,m64,mx32
  --enable-multilib --with-tune=generic --enable-offload-targets=nvptx-none
  --without-cuda-driver --enable-checking=release --build=x86_64-linux-gnu
  --host=x86_64-linux-gnu --target=x86_64-linux-gnu
Thread model: posix
gcc version 7.5.0 (Ubuntu 7.5.0-3ubuntu1~18.04)
------------------------------------------------------------------------------
```

Base Runtime Environment

C++ benchmarks:

531.deepsjeng_r: `No flags used`

Base Compiler Invocation

C++ benchmarks:

531.deepsjeng_r: `g++`

Base Portability Flags

531.deepsjeng_r: `-DSPEC_LP64`

Base Optimization Flags

C++ benchmarks:

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

Base Other Flags

C++ benchmarks:

531.deepsjeng_r: `No flags used`

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