SPEC CPU®2017 Integer Speed Result

My Corporation

SPECspeed®2017_int_base = 0.00

SPECspeed®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:

Threads
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
657.xz_s

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: 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
623.xalancbmk_s (base) did not have enough runs!
602.gcc_s (base) did not have enough runs!
631.deepsjeng_s (base) did not have enough runs!
620.omnetpp_s (base) did not have enough runs!
625.x264_s (base) did not have enough runs!
600.perlbench_s (base) did not have enough runs!
648.exchange2_s (base) did not have enough runs!
657.xz_s (base) did not have enough runs!
641.leela_s (base) did not have enough runs!
Input set must be 'refspeed' for a valid run (set to 'train' for this run)

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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														
602.gcc_s														
605.mcf_s	4	35.7	0.00	34.5	0.00									
620.omnetpp_s														
623.xalancbmk_s														
625.x264_s														
631.deepsjeng_s														
641.leela_s														
648.exchange2_s														
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
 /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 21:15:26 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
    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:
```

(Continued on next page)

Platform Notes (Continued)

```
      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:                 4543.681
      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.

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

  /usr/bin/lsb_release -d
```


(Continued on next page)

Platform Notes (Continued)

```
   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

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
```

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Platform Notes (Continued)

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

 (End of data from sysinfo program)
```

Compiler Version Notes

```
==============================================================================
C | 605.mcf_s(base)
------------------------------------------------------------------------------
Using built-in specs.
COLLECT_GCC=/usr/bin/gcc
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:

605.mcf_s: `No flags used`

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Software Availability:

Base Compiler Invocation

C benchmarks:

605.mcf_s: `gcc`

Base Portability Flags

605.mcf_s: `-DSPEC_LP64`

Base Optimization Flags

C benchmarks:

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

Base Other Flags

C benchmarks:

605.mcf_s: `No flags used`

For questions about this result, please contact the tester. For other inquiries, please contact info@spec.org.

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