

SPEC CPU®2017 Integer Speed Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

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:

OS:

Compiler:

Parallel:

Firmware:

File System:

System State:

Base Pointers:

Peak Pointers:

Other:

Power Management: --

Software

Ubuntu 18.04.6 LTS

5.4.0-150-generic

C/C++/Fortran: Version 7.2.1 of GCC, the
GNU Compiler Collection

Yes

ext4

Run level 5 (add definition here)

64-bit

Not Applicable

Errors

'reportable' flag not set during run

600.perlbench_s (base) did not have enough runs!

657.xz_s (base) did not have enough runs!

648.exchange2_s (base) did not have enough runs!

641.leela_s (base) did not have enough runs!

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!

625.x264_s (base) did not have enough runs!

620.omnetpp_s (base) did not have enough runs!

Input set must be 'refspeed' for a valid run (set to 'test' 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	6.48	0.00	6.41	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 295195f888a3d7edble6e46a485a0011
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:

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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
aperfperf pni pclmulqdq dtes64 monitor ds_cpl vmx est tm2 ssse3 sdbg fma cx16 xtpr
pdc cmov 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_lld 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

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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:

CVE-2018-3620 (L1 Terminal Fault):

Microarchitectural Data Sampling:

CVE-2017-5754 (Meltdown):

mmio_stale_data:

retbleed:

CVE-2018-3639 (Speculative Store Bypass): Mitigation: Speculative Store Bypass disabled via prctl and seccomp

CVE-2017-5753 (Spectre variant 1):

Mitigation: usercopy/swaps barriers and __user pointer sanitization

CVE-2017-5715 (Spectre variant 2):

Mitigation: Enhanced IBRS, IBPB: conditional, RSB filling, PBRSE-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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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

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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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