

SPEC CPU®2017 Integer Rate Result

Copyright 2017-2023 Standard Performance Evaluation Corporation

My Corporation

SPECrate®2017_int_base = 6.65

SPECrate®2017_int_peak = Not Run

CPU2017 License: nnn (Your SPEC license number)

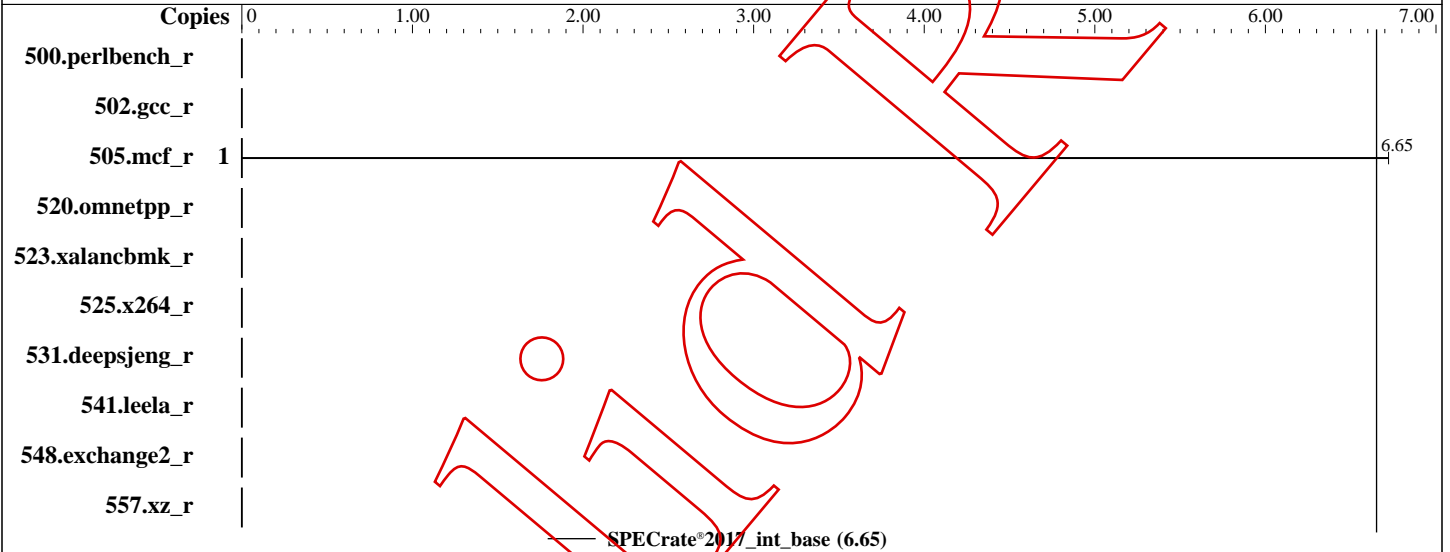
Test Sponsor: My Corporation

Tested by: My Corporation

Test Date: Jun-2023

Hardware Availability:

Software Availability:



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

'reportable' flag not set during run
548.exchange2_r (base) did not have enough runs!
520.omnetpp_r (base) did not have enough runs!
502.gcc_r (base) did not have enough runs!
523.xalancbmk_r (base) did not have enough runs!
525.x264_r (base) did not have enough runs!
541.leela_r (base) did not have enough runs!
500.perlbench_r (base) did not have enough runs!
557.xz_r (base) did not have enough runs!
531.deepsjeng_r (base) did not have enough runs!

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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	1	243	6.65	240	6.72									
520.omnetpp_r														
523.xalancbmk_r														
525.x264_r														
531.deepsjeng_r														
541.leela_r														
548.exchange2_r														
557.xz_r														

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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 20:47:28 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: 4486.025
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_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 | 505.mcf_r(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:

505.mcf_r: No flags used

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Base Compiler Invocation

C benchmarks:

505.mcf_r: gcc

Base Portability Flags

505.mcf_r: -DSPEC_LP64

Base Optimization Flags

C benchmarks:

505.mcf_r: -m64 -std=c99 -g -O3 -march=native
-fno-unsafe-math-optimizations -fno-tree-loop-vectorize
-fno-strict-aliasing -fgnu89-inline

Base Other Flags

C benchmarks:

505.mcf_r: 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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