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## Ubuntu 20.04 Benchmarks

Various open-source benchmarks by the Phoronix Test Suite v10.2.2 (Harstad).

### Test Systems:

#### Ubuntu 20.04 - Intel Core i5-1035G1

Processor: Intel Core i5-1035G1 @ 3.60GHz (4 Cores / 8 Threads), Motherboard: LENOVO LNVNB161216 (DKCN48WW BIOS), Chipset: Intel Device 34ef, Memory: 8GB, Disk: 256GB SK hynix HFM256GDHTNI-87A0B, Graphics: Intel UHD 3GB (1050MHz), Audio: Realtek Generic, Network: Intel Killer Wi-Fi 6 AX1650i 160MHz

OS: Ubuntu 20.04, Kernel: 5.8.0-48-generic (x86\_64), Desktop: GNOME Shell 3.36.7, Display Server: X Server 1.20.9, OpenGL: 4.6 Mesa 20.2.6, Vulkan: 1.2.145, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Kernel Notes: Transparent Huge Pages: madvise  
Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-checking=release --enable-clocale-gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,brig,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none=/build/gcc-9-HskZEa/gcc-9-9.3.0/debian/tmp-nvptx/usr,hsa --enable-plugin --enable-shared --enable-threads=posix --host=x86\_64-linux-gnu --program-prefix=x86\_64-linux-gnu- --target=x86\_64-linux-gnu --with-abi=m64 --with-arch-32=i686 --with-default-libstdcxx-abi=new --with-gcc-major-version-only --with-multilib-list=m32,m64,mx32 --with-target-system-zlib=auto --with-tune=generic --without-cuda-driver -v  
Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0xa0 - ThermalD 1.9.1

Security Notes: itlb\_multihit: KVM: Mitigation of VMX disabled + l1tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swapgs barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IPB: conditional RSB filling + srbds: Not affected + tsx\_async\_abort: Not affected

**Ubuntu 20.04 - Intel Core  
i5-1035G1****OSBench - Create Files (us/Event)** 12.919813

Standard Deviation 0.4%

**Smallpt - G.I.R.1.S (sec)** 26.460

Standard Deviation 2.3%

**Gcrypt Library (sec)** 257.364

Standard Deviation 0.5%

**Hierarchical INTegration - FLOAT (QUIPs)** 436457054

Standard Deviation 1%

## OSBench

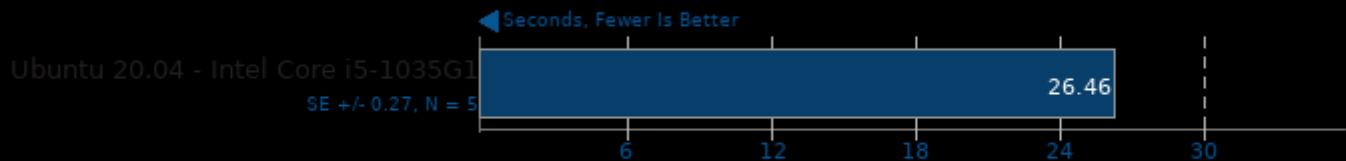
Test: Create Files



1. (CC) gcc options: -lm

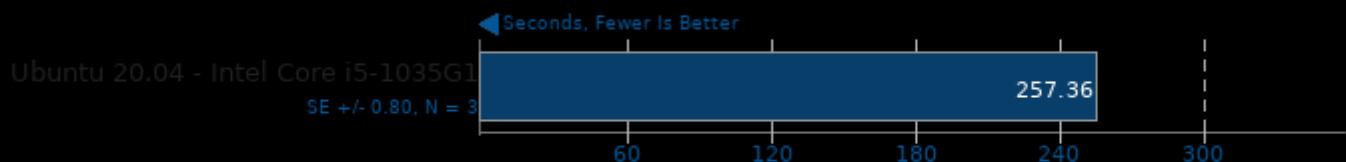
## Smallpt 1.0

Global Illumination Renderer; 128 Samples



1. (CXX) g++ options: -fopenmp -O3

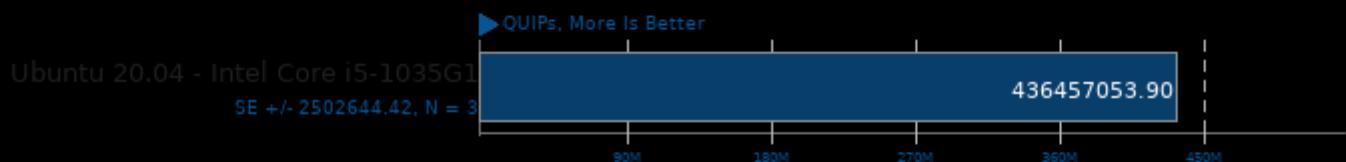
## Gcrypt Library 1.9



1. (CC) gcc options: -O2 -fvisibility=hidden

## Hierarchical INTegration 1.0

Test: FLOAT



1. (CC) gcc options: -O3 -march=native -lm

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