



## ALEX

Intel Core i7-9700 testing with a Notebook NB50TZ (1.07.03 BIOS) and Intel HD 3GB on Ubuntu 19.04 via the Phoronix Test Suite.

## Test Systems:

### ALEX-LAPTOP

Processor: Intel Core i7-9700 @ 4.70GHz (8 Cores), Motherboard: Notebook NB50TZ (1.07.03 BIOS), Chipset: Intel Cannon Lake PCH, Memory: 32768MB, Disk: 256GB SAMSUNG MZNLN256 + 1000GB Western Digital WDS100T2B0B, Graphics: Intel HD 3GB (1200MHz), Audio: Realtek ALC269VB, Network: Realtek RTL8111/8168/8411 + Intel-AC 9560

OS: Ubuntu 19.04, Kernel: 5.0.0-37-generic (x86\_64), Desktop: GNOME Shell 3.32.2, Display Server: X Server 1.20.4, Display Driver: modesetting 1.20.4, OpenGL: 4.5 Mesa 19.0.8, Compiler: GCC 8.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=x86\_64-linux-gnu --disable-vtable-verify --disable-werror --enable-bootstrap --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++ --enable-libmpx --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc=auto --enable-offload-targets=nvptx-none --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 --with-tune=generic --without-cuda-driver -v

Processor Notes: Scaling Governor: intel\_pstate powersave - CPU Microcode: 0xca

Security Notes: itlb\_multihit: KVM: Mitigation of Split huge pages + 11tf: Not affected + mds: Not affected + meltdown: Not affected + spec\_store\_bypass: Mitigation of SSB disabled via prctl and seccomp + spectre\_v1: Mitigation of usercopy/swaps barriers and \_\_user pointer sanitization + spectre\_v2: Mitigation of Enhanced IBRS IBPB: conditional RSB filling + tsx\_async\_abort: Mitigation of TSX disabled

ALEX-LAPTOP	
<b>Rodinia - OpenMP LavaMD (sec)</b>	49.307
Standard Deviation	3.3%
<b>Rodinia - OpenMP CFD Solver (sec)</b>	29.412
Standard Deviation	0.7%
<b>NAMD - ATPase Simulation - 327,506 Atoms (days/ns)</b>	2.54303
Standard Deviation	0.3%
<b>x264 - H.2.V.E (FPS)</b>	56.31
Standard Deviation	2.8%
<b>x265 - H.2.1.V.E (FPS)</b>	33.91
Standard Deviation	1.4%
<b>7-Zip Compression - C.S.T (MIPS)</b>	32453
Standard Deviation	1.1%
<b>Stockfish - Total Time (Nodes/sec)</b>	16211930
Standard Deviation	1.8%
<b>asmFish - 1.H.M.2.D (Nodes/second)</b>	17114232
Standard Deviation	0.8%
<b>Timed GCC Compilation - Time To Compile (sec)</b>	1027
<b>Timed Linux Kernel Compilation - Time To Compile (sec)</b>	100.517
Standard Deviation	0.7%
<b>POV-Ray - Trace Time (sec)</b>	76.636
Standard Deviation	0.7%
<b>Radiance Benchmark - Serial (sec)</b>	651.067
<b>Radiance Benchmark - SMP Parallel (sec)</b>	233.772
<b>OpenSSL - R.4.b.P (Signs/sec)</b>	1979
Standard Deviation	1.9%
<b>ctx_clock - C.S.T (Clocks)</b>	122

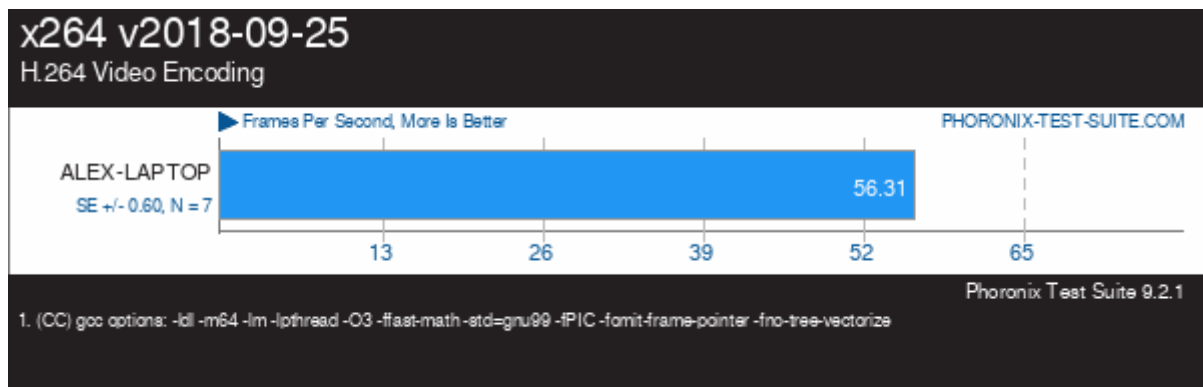
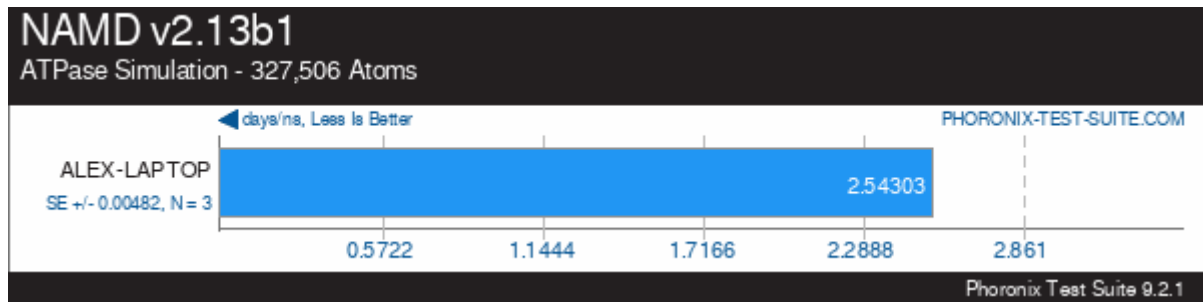
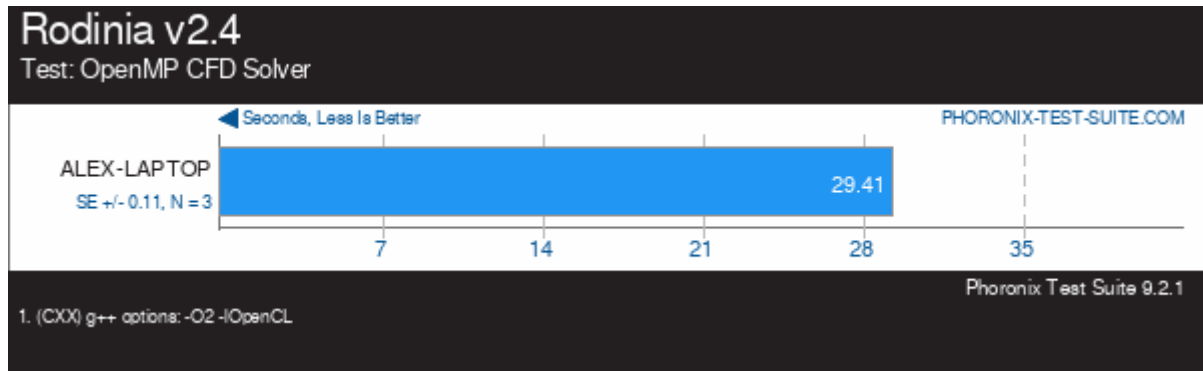
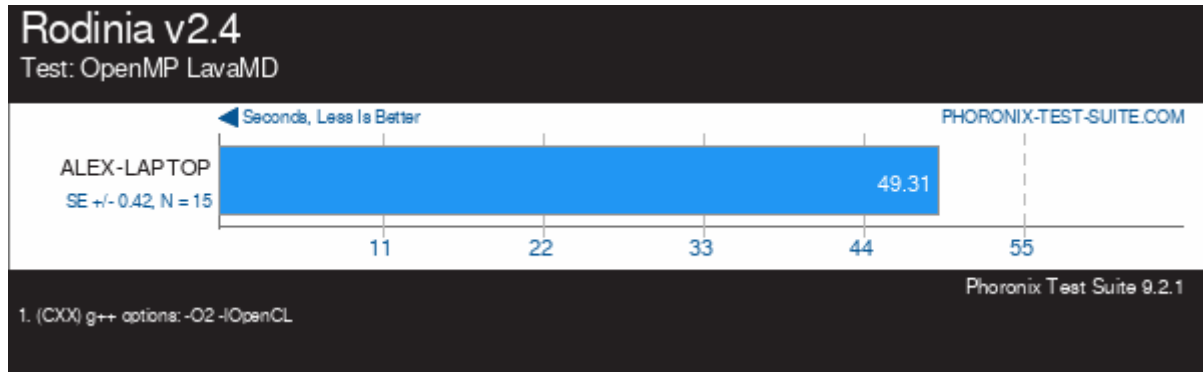
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Standard Deviation 0.9%

**Sysbench - CPU (Events/sec)** 10212

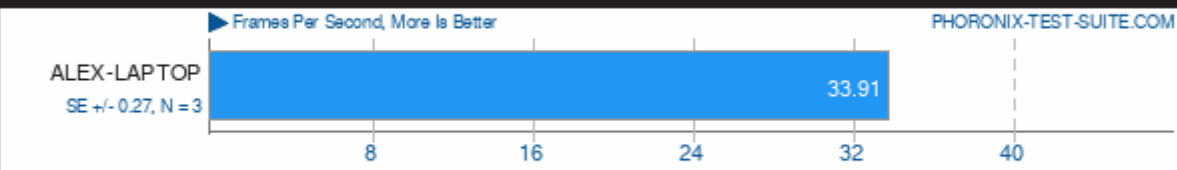
Standard Deviation 0.3%

**Blender - Barbershop - CPU-Only (sec)** 1793



### x265 v3.0

H.265 1080p Video Encoding

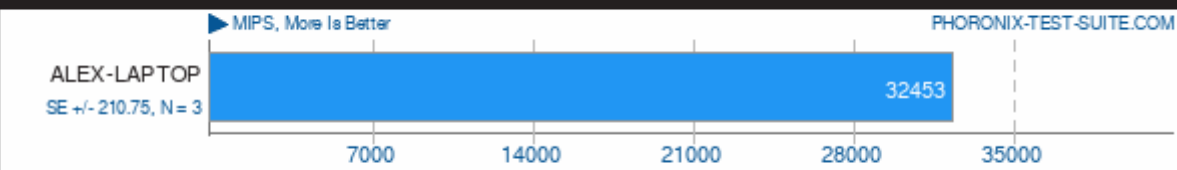


Phoronix Test Suite 9.2.1

1. (CXX) g++ options: -O3 -rdynamic -lthread -lrt -ldl -lnuma

### 7-Zip Compression v16.02

Compress Speed Test

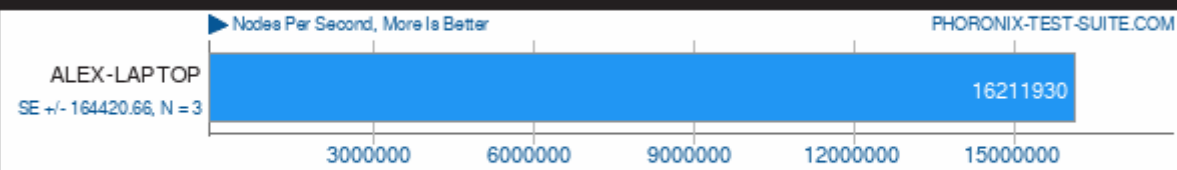


Phoronix Test Suite 9.2.1

1. (CXX) g++ options: -pipe -lthread

### Stockfish 9

Total Time

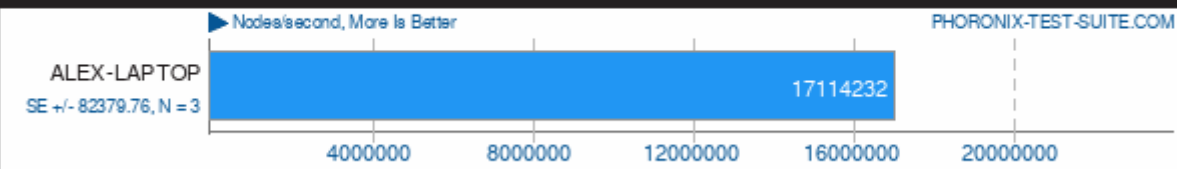


Phoronix Test Suite 9.2.1

1. (CXX) g++ options: -m64 -lthread -fno-exceptions -std=c++11 -pedantic -O3 -mssa -mssa3 -mpopcnt -flt

### asmFish v2018-07-23

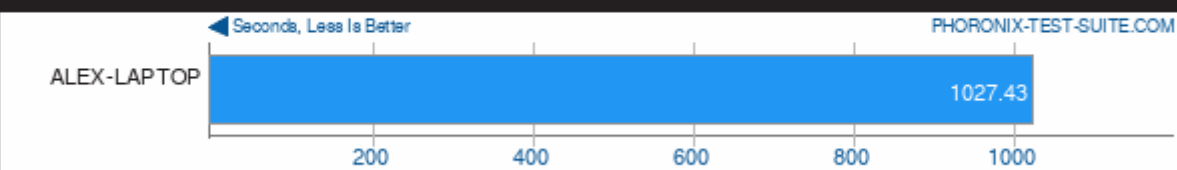
1024 Hash Memory, 26 Depth



Phoronix Test Suite 9.2.1

### Timed GCC Compilation v8.2

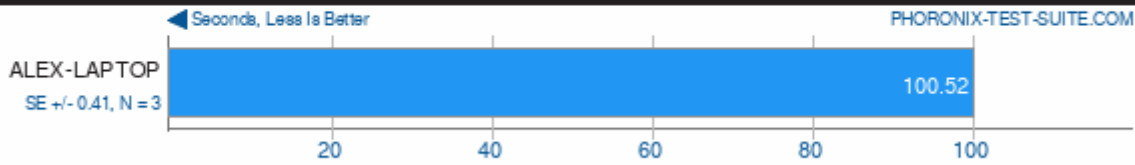
Time To Compile



Phoronix Test Suite 9.2.1

## Timed Linux Kernel Compilation v4.18

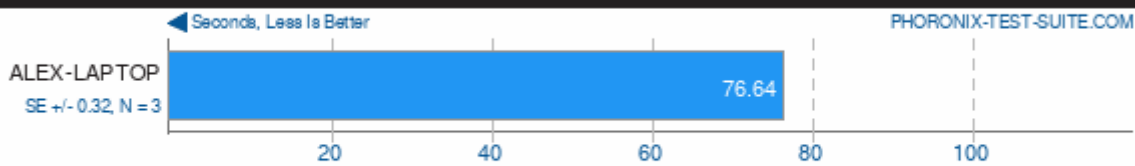
Time To Compile



Phoronix Test Suite 9.2.1

## POV-Ray v3.7.0.7

Trace Time

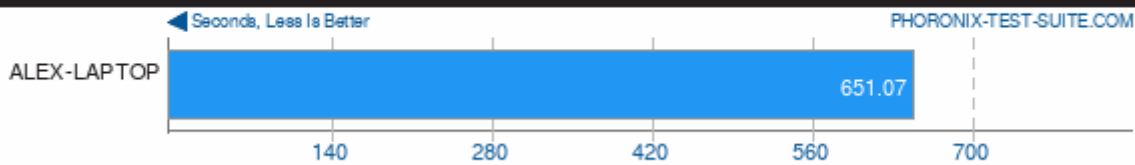


Phoronix Test Suite 9.2.1

1. (CXX) g++ options: -pipe -O3 -ffast-math -march=native -pthread -IXpm -ISM -IICE -IX11 -ltiff -ljpeg -long -lz -lrt -lm -lboost\_thread -lboost\_system

## Radiance Benchmark v5.0

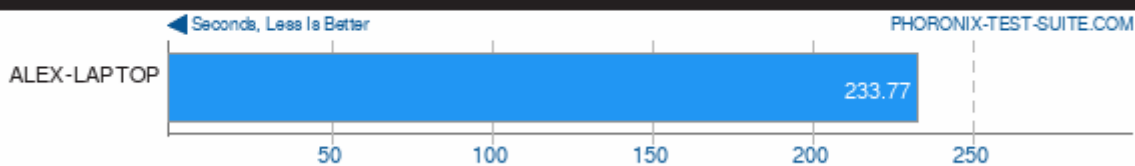
Test: Serial



Phoronix Test Suite 9.2.1

## Radiance Benchmark v5.0

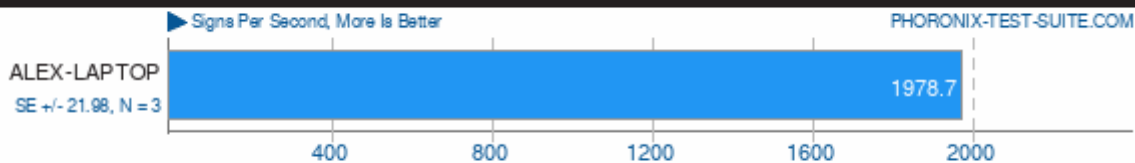
Test: SMP Parallel



Phoronix Test Suite 9.2.1

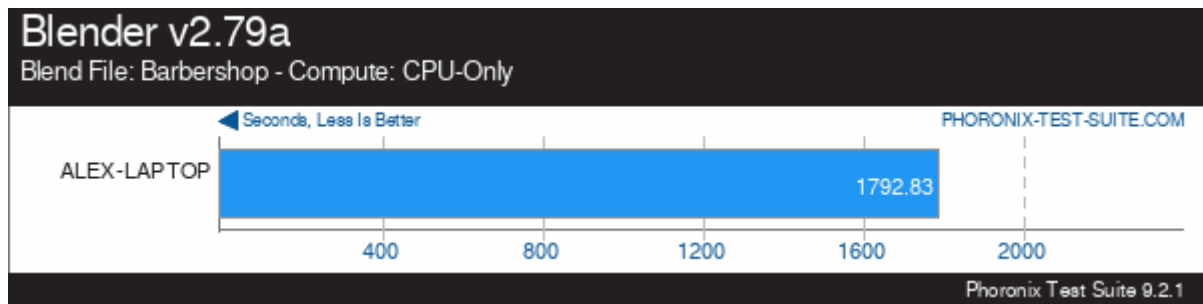
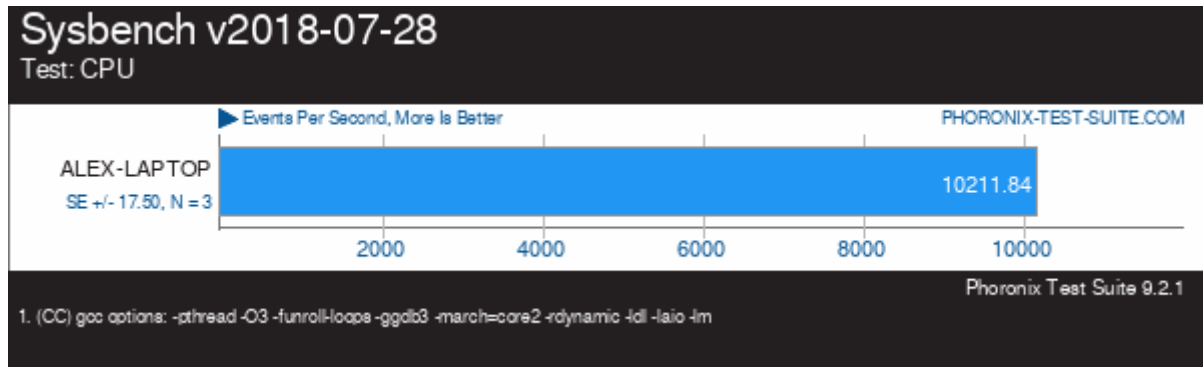
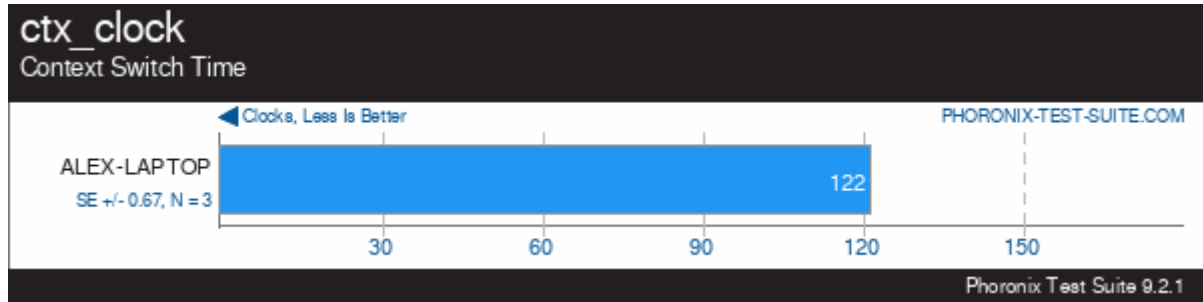
## OpenSSL v1.1.1

RSA 4096-bit Performance



Phoronix Test Suite 9.2.1

1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl



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