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test10101

Intel Core i5-6300U testing with a LENOVO 20FAS14J01 (N1CET77W 1.45 BIOS) and Intel Skylake GT2 [HD 520] 3GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel Core i5-6300U

Processor: Intel Core i5-6300U @ 3.00GHz (2 Cores / 4 Threads), Motherboard: LENOVO 20FAS14J01 (N1CET77W 1.45 BIOS), Chipset: Intel Xeon E3-1200 v5/E3-1500, Memory: 8192 MB + 16384 MB DDR4-2133MT/s, Disk: 1024GB Sabrent, Graphics: Intel Skylake GT2 [HD 520] 3GB (1000MHz), Audio: Realtek ALC293, Network: Intel I219-LM + Intel 8260

OS: Ubuntu 20.04, Kernel: 5.6.9-050609-generic (x86_64), Display Server: X Server 1.20.9, Display Driver: modesetting 1.20.9, OpenGL: 4.6 Mesa 20.2.6, Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

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,hsa --enable-plugin --enable-shared --enable-threads=posix

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--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 performance - CPU Microcode: 0xea
Security Notes: itlb_multihit: KVM: Mitigation of Split huge pages + l1tf: Mitigation of PTE Inversion; VMX: conditional cache flushes SMT vulnerable + mds: Mitigation of Clear buffers; SMT vulnerable + meltdown: Mitigation of PTI + 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 Full generic retpoline IBPB: conditional IBRS_FW STIBP: conditional RSB filling + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

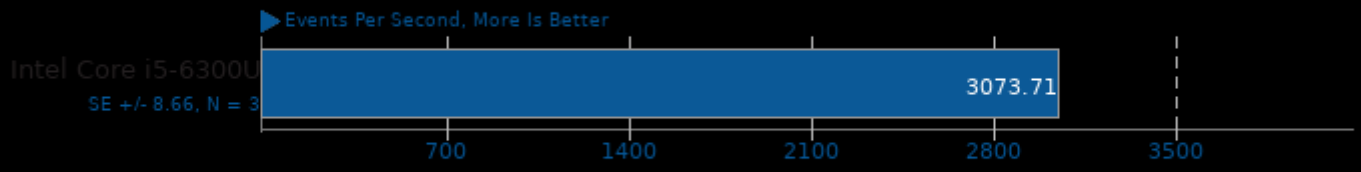
	Intel Core i5-6300U
Sysbench - CPU (Events/sec)	3074
Standard Deviation	0.5%
Kvazaar - Bosphorus 4K - Slow (FPS)	0.77
Standard Deviation	0.8%
Kvazaar - Bosphorus 4K - Medium (FPS)	0.79
Standard Deviation	0%
Kvazaar - Bosphorus 1080p - Slow (FPS)	3.45
Standard Deviation	0.2%
Kvazaar - Bosphorus 1080p - Medium (FPS)	3.53
Standard Deviation	1%
Kvazaar - Bosphorus 4K - Very Fast (FPS)	2.17
Standard Deviation	1.7%
Kvazaar - Bosphorus 4K - Ultra Fast (FPS)	4.01
Standard Deviation	0.4%
Kvazaar - Bosphorus 1080p - Very Fast (FPS)	8.96
Standard Deviation	0.3%
Kvazaar - Bosphorus 1080p - Ultra Fast (FPS)	16.30
Standard Deviation	1.3%
x264 - H.2.V.E (FPS)	16.50
Standard Deviation	1.5%
x265 - Bosphorus 4K (FPS)	3.09
Standard Deviation	1.2%
x265 - Bosphorus 1080p (FPS)	13.56
Standard Deviation	0.3%
7-Zip Compression - C.S.T (MIPS)	8729
Standard Deviation	1.3%
Stockfish - Total Time (Nodes/s)	3968950
Standard Deviation	0.7%
asmFish - 1.H.M.2.D (Nodes/s)	4318730
Standard Deviation	1%
OpenSSL - R.4.b.P (Signs/sec)	418.6
Standard Deviation	0.3%
ctx_clock - C.S.T (Clocks)	1125
Standard Deviation	0.2%
NAMD - ATPase Simulation - 327,506 Atoms (days/ns)	10.61910
Standard Deviation	1.6%
Rodinia - OpenMP LavaMD (sec)	183.239
Standard Deviation	1.7%
Rodinia - OpenMP CFD Solver (sec)	121.127
Standard Deviation	2.8%
Timed Linux Kernel Compilation - Time To Compile (sec)	446.956
Standard Deviation	0.2%

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POV-Ray - Trace Time (sec)	310.352
Standard Deviation	0.1%
Radiance Benchmark - Serial (sec)	1043
Radiance Benchmark - SMP Parallel (sec)	564.437

Sysbench 2018-07-28

Test: CPU



1. (CC) gcc options: -pthread -O3 -funroll-loops -ggdb3 -march=core2 -rdynamic -ldl -laio -lm

Kvazaar 2.0

Video Input: Bosphorus 4K - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

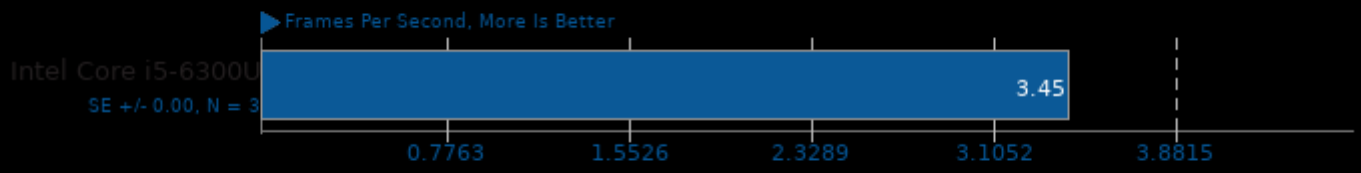
Video Input: Bosphorus 4K - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

Video Input: Bosphorus 1080p - Video Preset: Slow



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

Video Input: Bosphorus 1080p - Video Preset: Medium



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

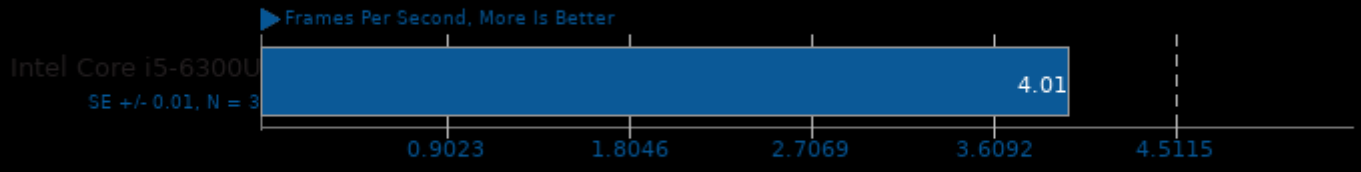
Video Input: Bosphorus 4K - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

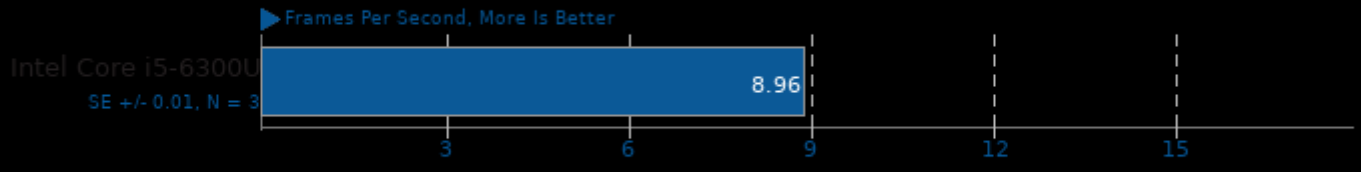
Video Input: Bosphorus 4K - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

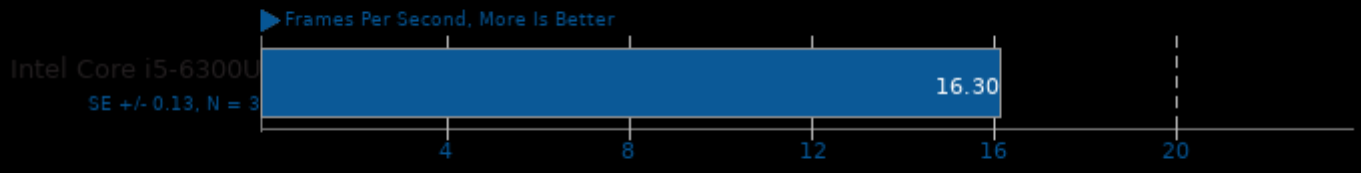
Video Input: Bosphorus 1080p - Video Preset: Very Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

Kvazaar 2.0

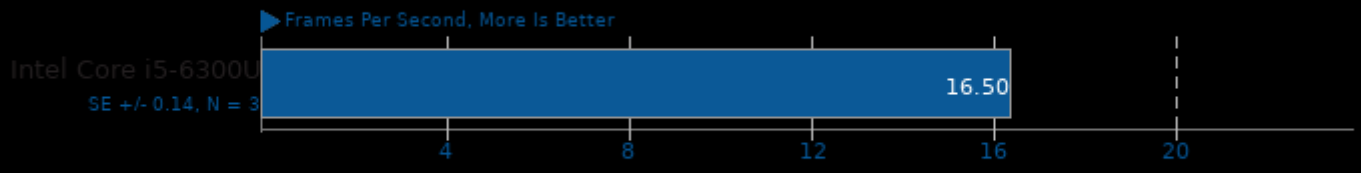
Video Input: Bosphorus 1080p - Video Preset: Ultra Fast



1. (CC) gcc options: -pthread -ftree-vectorize -fvisibility=hidden -O2 -lpthread -lm -lrt

x264 2018-09-25

H.264 Video Encoding

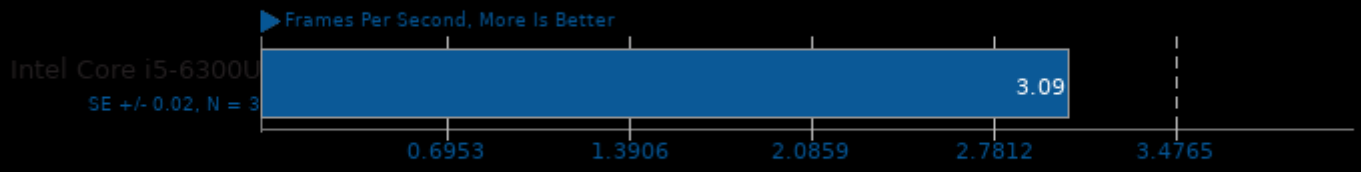


1. (CC) gcc options: -ldl -m64 -lm -lpthread -O3 -ffast-math -std=gnu99 -fPIC -fomit-frame-pointer -fno-tree-vectorize

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x265 3.4

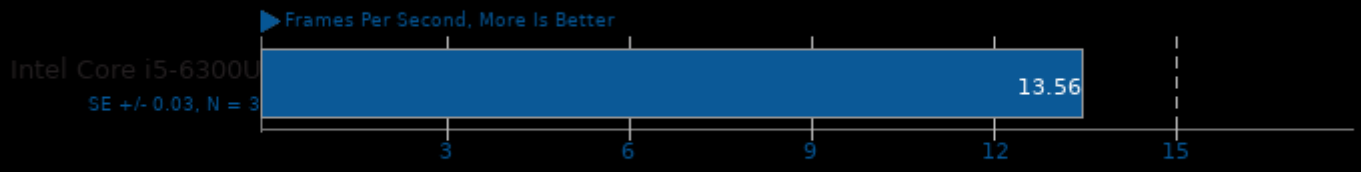
Video Input: Bosphorus 4K



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

x265 3.4

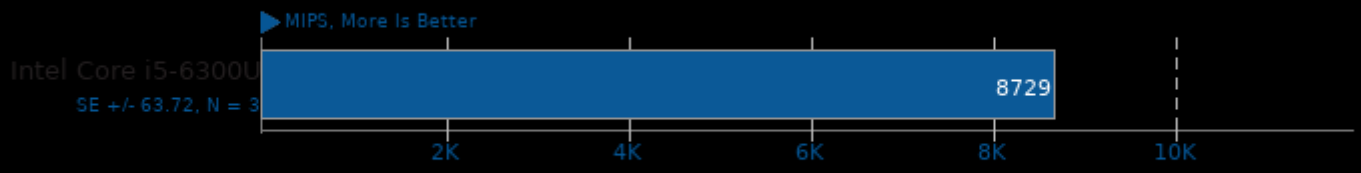
Video Input: Bosphorus 1080p



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

7-Zip Compression 16.02

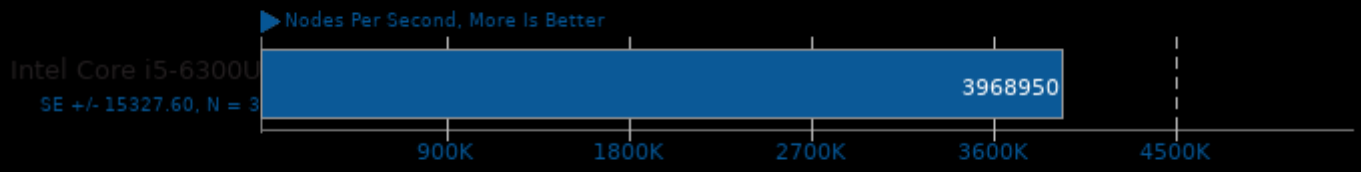
Compress Speed Test



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

Stockfish 9

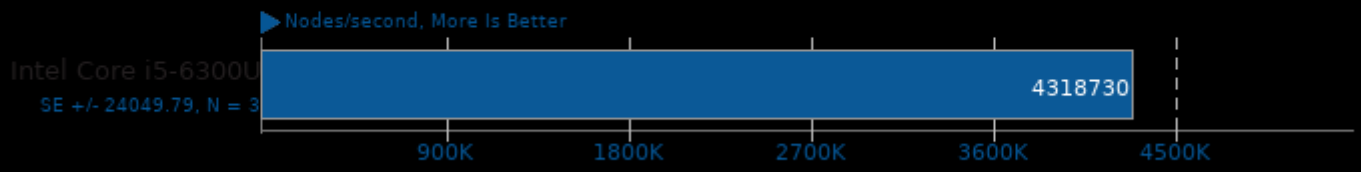
Total Time



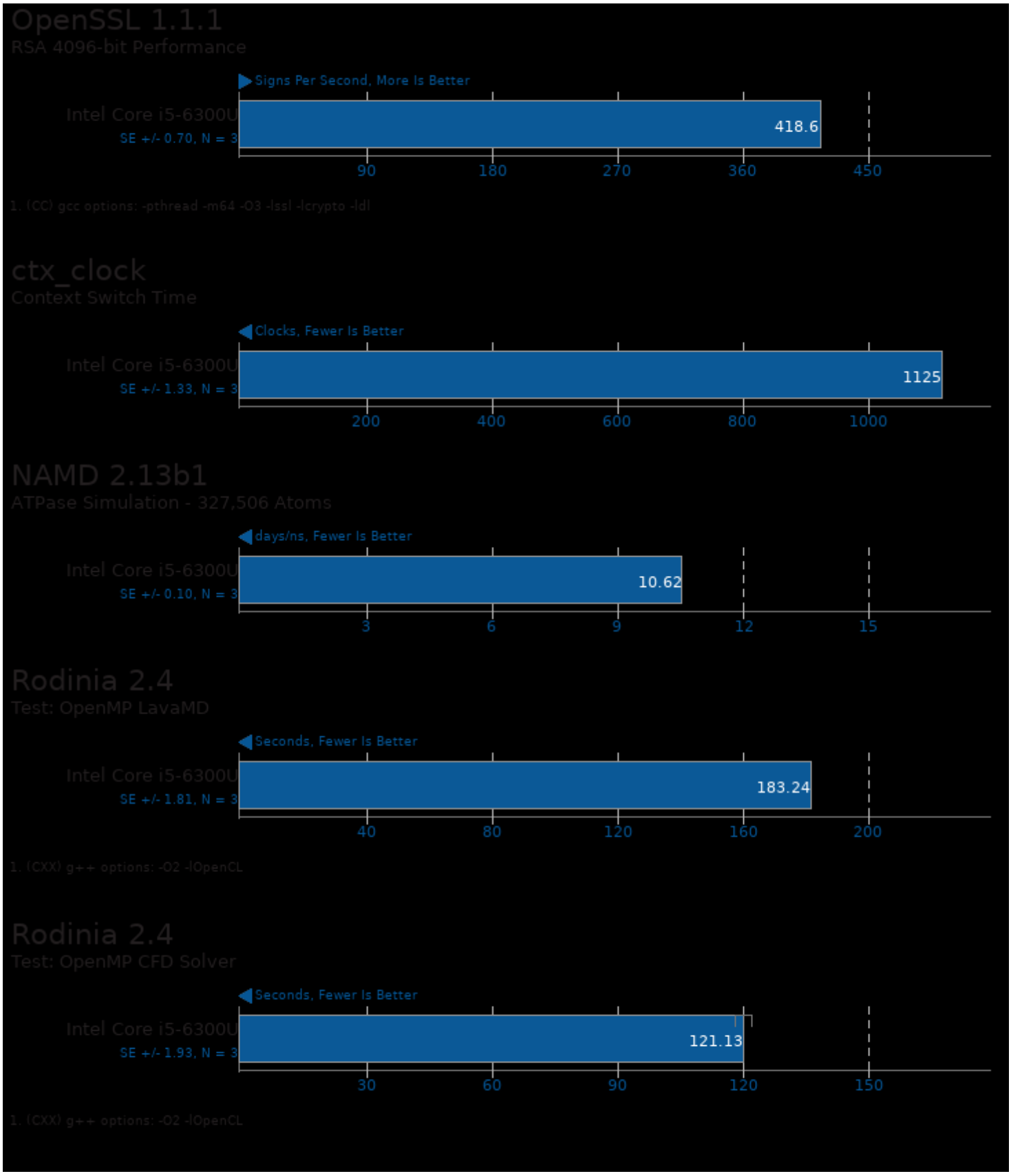
1. (CXX) g++ options: -m64 -lpthread -fno-exceptions -std=c++11 -pedantic -O3 -msse -msse3 -mpopcnt -flto

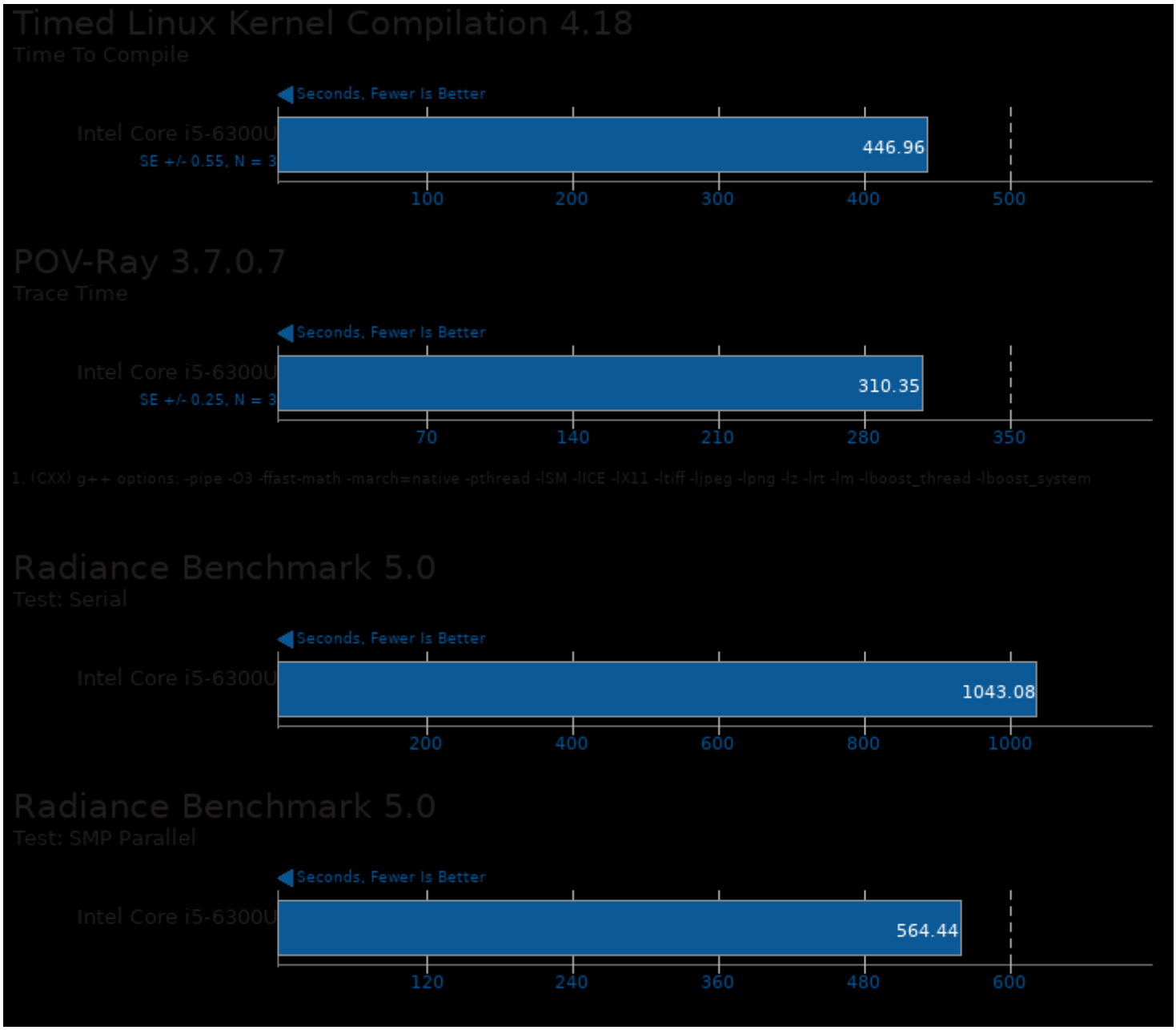
asmFish 2018-07-23

1024 Hash Memory, 26 Depth



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OpenSSL 1.1.1
RSA 4096-bit Performance
Signs Per Second, More Is Better
Intel Core i5-6300U
SE +/- 0.70, N = 3
418.6
90
180
270
360
450
1. (CC) gcc options: -pthread -m64 -O3 -lssl -lcrypto -ldl
ctx_clock
Context Switch Time
Clocks, Fewer Is Better
Intel Core i5-6300U
SE +/- 1.33, N = 3
1125
200
400
600
800
1000
NAMD 2.13b1
ATPase Simulation - 327,506 Atoms
days/ns, Fewer Is Better
Intel Core i5-6300U
SE +/- 0.10, N = 3
10.62
3
6
9
12
15
Rodinia 2.4
Test: OpenMP LavaMD
Seconds, Fewer Is Better
Intel Core i5-6300U
SE +/- 1.81, N = 3
183.24
40
80
120
160
200
1. (CXX) g++ options: -O2 -lOpenCL
Rodinia 2.4
Test: OpenMP CFD Solver
Seconds, Fewer Is Better
Intel Core i5-6300U
SE +/- 1.93, N = 3
121.13
30
60
90
120
150
1. (CXX) g++ options: -O2 -lOpenCL



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