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testnoavcompiler

Intel Core i7-8850H testing with a HP 842A (Q70 Ver. 01.17.00 BIOS) and NVIDIA Quadro P2000 Mobile 4GB on Ubuntu 20.04 via the Phoronix Test Suite.

Test Systems:

Intel Core i7-8850H

Processor: Intel Core i7-8850H @ 4.30GHz (6 Cores / 12 Threads), Motherboard: HP 842A (Q70 Ver. 01.17.00 BIOS), Chipset: Intel Cannon Lake PCH, Memory: 2 x 16384 MB DDR4-2667MT/s HMA82GS6JJR8N-VK, Disk: 512GB Toshiba KXG5AZNV512G, Graphics: NVIDIA Quadro P2000 Mobile 4GB, Audio: Conexant CX11970, Network: Intel I219-LM + Intel-AC 9560

OS: Ubuntu 20.04, Kernel: 5.11.0-27-generic (x86_64), Desktop: GNOME Shell 3.36.9, Display Server: X Server 1.20.11, Vulkan: 1.0.2, 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

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--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 performance - CPU Microcode: 0xea - Thermald 1.9.1
Security Notes: itlb_multihit: KVM: Mitigation of VMX disabled + 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 + srbds: Mitigation of Microcode + tsx_async_abort: Mitigation of Clear buffers; SMT vulnerable

	Intel Core i7-8850H
Timed MrBayes Analysis - P.P.A (sec)	170.409
Standard Deviation	1.4%
C-Ray - Total Time - 4.1.R.P.P (sec)	132.674
Standard Deviation	0.4%
John The Ripper - MD5 (Real C/S)	509606
Standard Deviation	1.8%
GraphicsMagick - HWB Color Space (Iterations/min)	681
Standard Deviation	0.5%
Stockfish - Total Time (Nodes/s)	12881140
Standard Deviation	1.5%
7-Zip Compression - C.S.T (MIPS)	30174
Standard Deviation	1.3%
John The Ripper - Blowfish (Real C/S)	9490
Standard Deviation	2.4%
Zstd Compression - 3 - D.S (MB/s)	3190
Standard Deviation	0.3%
Zstd Compression - 3 - Compression Speed (MB/s)	1237
Standard Deviation	0.9%
Zstd Compression - 3 - D.S (MB/s)	3413
Standard Deviation	0.4%
Zstd Compression - 3 - Compression Speed (MB/s)	1384
Standard Deviation	0.7%
AOBench - 2048 x 2048 - Total Time (sec)	33.536
Standard Deviation	1.5%
Basis Universal - ETC1S (sec)	30.824
Standard Deviation	0.5%
LZ4 Compression - 1 - D.S (MB/s)	9349
Standard Deviation	0.2%
LZ4 Compression - 1 - Compression Speed (MB/s)	7617
Standard Deviation	0.1%
SciMark - Composite (Mflops)	634.67
Standard Deviation	1.6%
FLAC Audio Encoding - WAV To FLAC (sec)	17.244
Standard Deviation	0.7%
System GZIP Decompression (sec)	3.023
Standard Deviation	3.7%
Timed MAFFT Alignment - M.S.A - LSU RNA (sec)	11.673
Standard Deviation	0.8%
dav1d - S.N.1 (FPS)	389.11
Standard Deviation	0.3%
LAME MP3 Encoding - WAV To MP3 (sec)	8.886
Standard Deviation	0.3%

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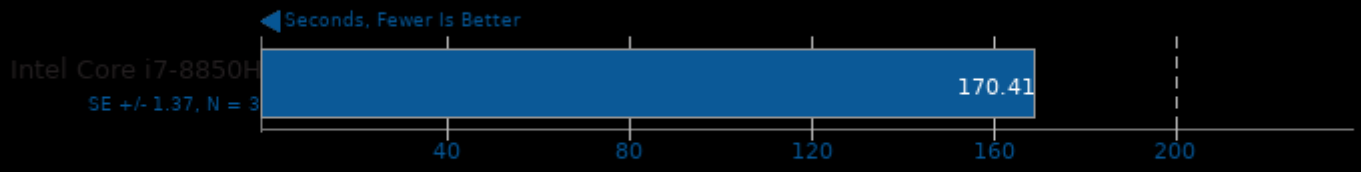
System XZ Decompression (sec) 3.791

Standard Deviation 0.5%

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Timed MrBayes Analysis 3.2.7

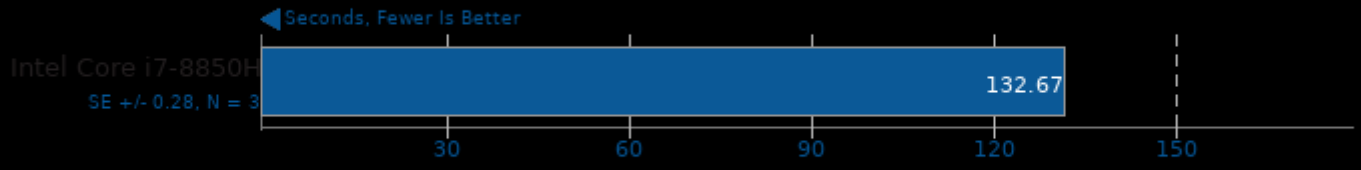
Primate Phylogeny Analysis



1. (CC) gcc options: -mmmx -msse -msse2 -msse3 -mssse3 -msse4.1 -msse4.2 -maes -mavx -mfma -mavx2 -mrdrnd -mbmi -mbmi2 -madx -mmpx -mabm -

C-Ray 1.1

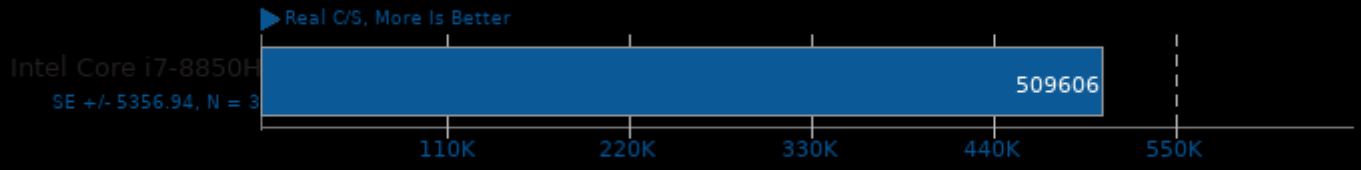
Total Time - 4K, 16 Rays Per Pixel



1. (CC) gcc options: -lm -lpthread -O3

John The Ripper 1.9.0-jumbo-1

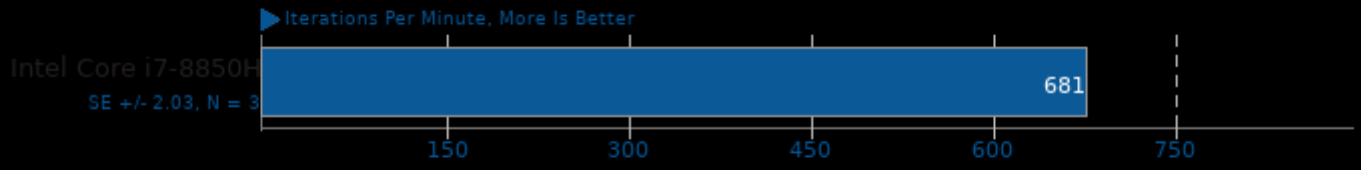
Test: MD5



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

GraphicsMagick 1.3.33

Operation: HWB Color Space

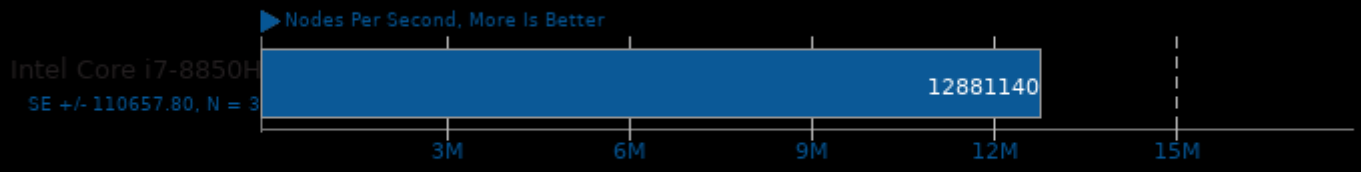


1. (CC) gcc options: -fopenmp -O2 -pthread -ljpeg -lXext -lSM -lICE -lX11 -lz -lm -lpthread

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Stockfish 13

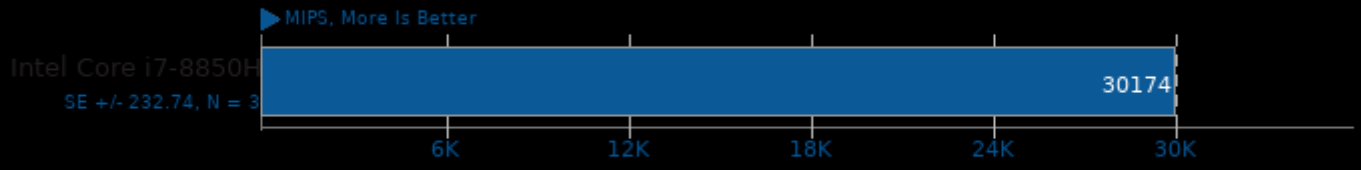
Total Time



1. (CXX) g++ options: -lgcov -m64 -lpthread -fno-exceptions -std=c++17 -fprofile-use -fno-peel-loops -fno-tracer -pedantic -O3 -msse -msse3 -mpopcnt

7-Zip Compression 16.02

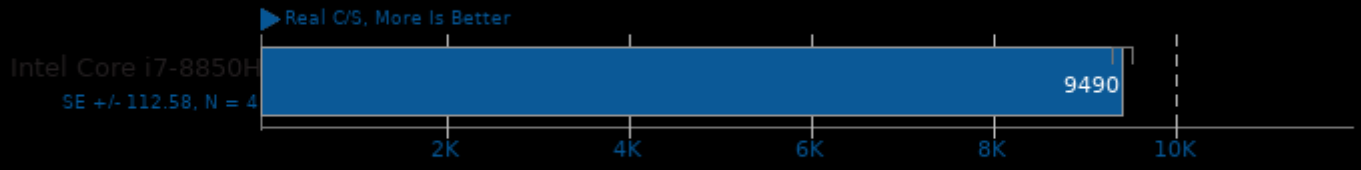
Compress Speed Test



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

John The Ripper 1.9.0-jumbo-1

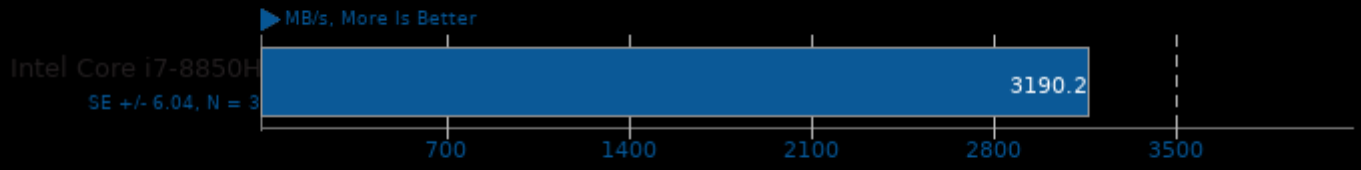
Test: Blowfish



1. (CC) gcc options: -m64 -lssl -lcrypto -fopenmp -pthread -lm -lz -ldl -lcrypt

Zstd Compression

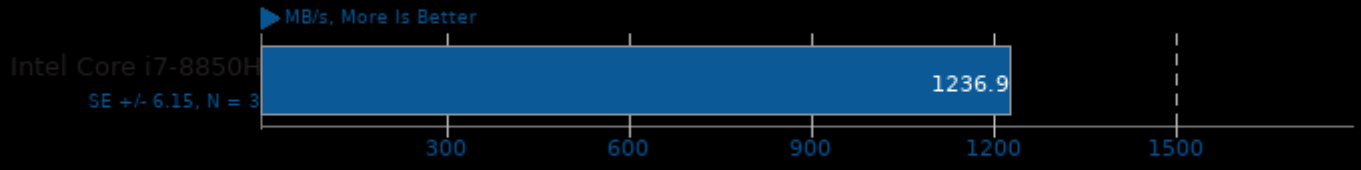
Compression Level: 3 - Decompression Speed



1. *** zstd command line interface 64-bits v1.4.4, by Yann Collet ***

Zstd Compression

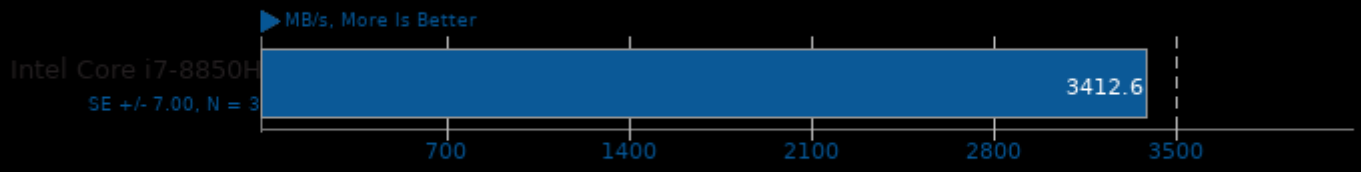
Compression Level: 3 - Compression Speed



1. *** zstd command line interface 64-bits v1.4.4, by Yann Collet ***

Zstd Compression 1.5.0

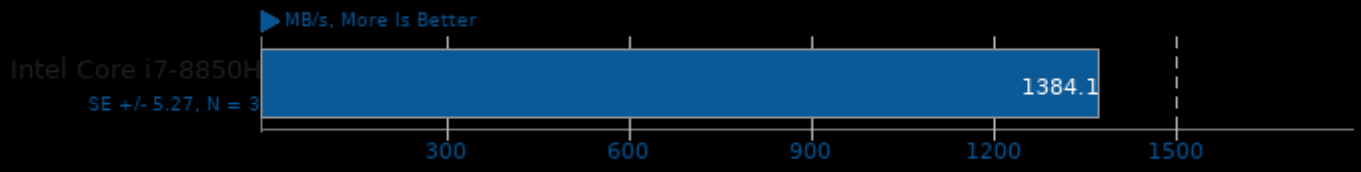
Compression Level: 3 - Decompression Speed



1. (CC) gcc options: -O3 -pthread -lz

Zstd Compression 1.5.0

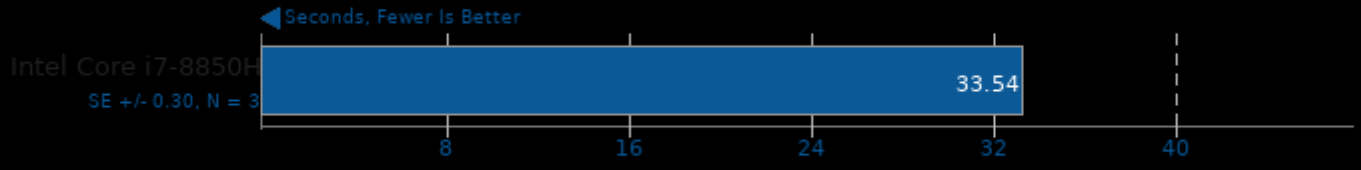
Compression Level: 3 - Compression Speed



1. (CC) gcc options: -O3 -pthread -lz

AOBench

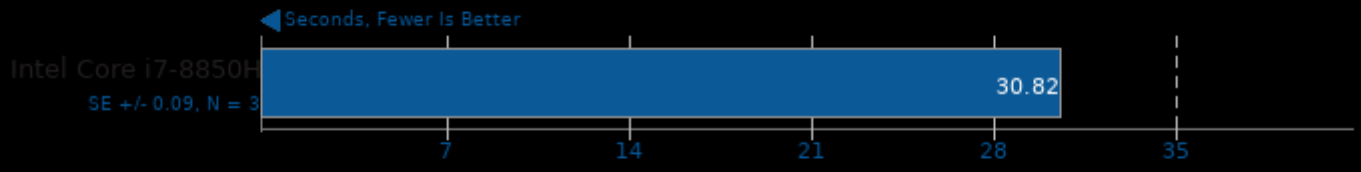
Size: 2048 x 2048 - Total Time



1. (CC) gcc options: -lm -O3

Basis Universal 1.13

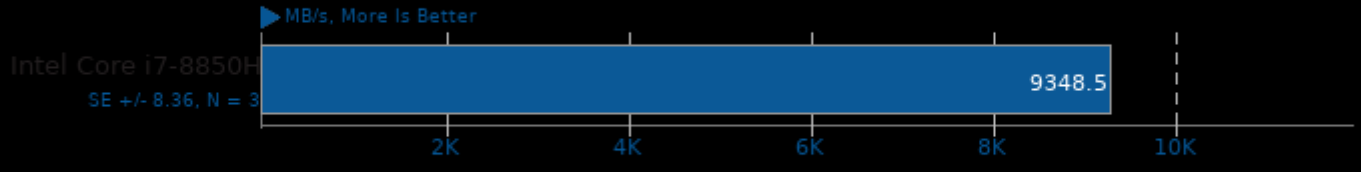
Settings: ETC1S



1. (CXX) g++ options: -std=c++11 -fvisibility=hidden -fPIC -fno-strict-aliasing -O3 -rdynamic -lm -lpthread

LZ4 Compression 1.9.3

Compression Level: 1 - Decompression Speed

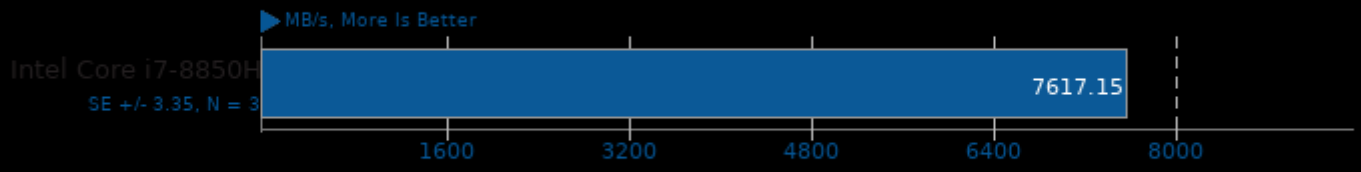


1. (CC) gcc options: -O3

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LZ4 Compression 1.9.3

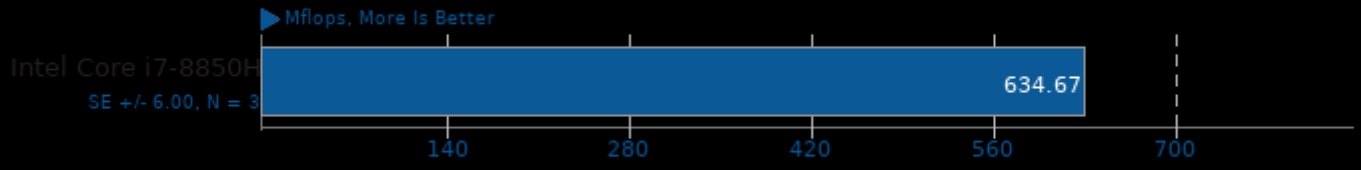
Compression Level: 1 - Compression Speed



1. (CC) gcc options: -O3

SciMark 2.0

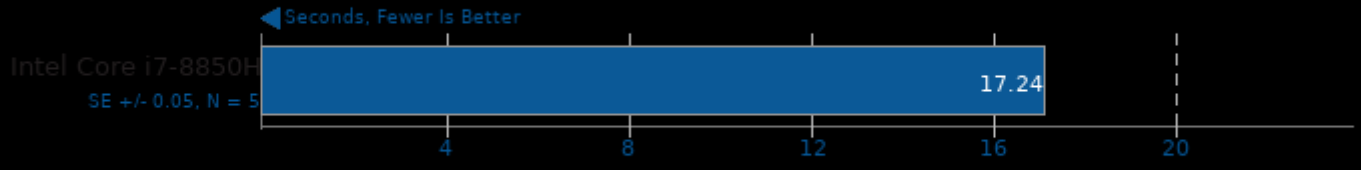
Computational Test: Composite



1. (CC) gcc options: -lm

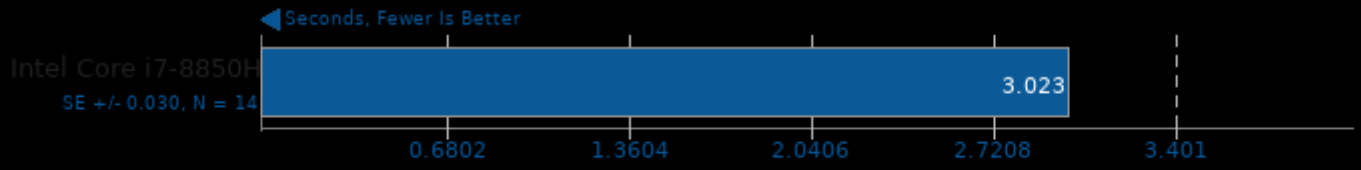
FLAC Audio Encoding 1.3.3

WAV To FLAC



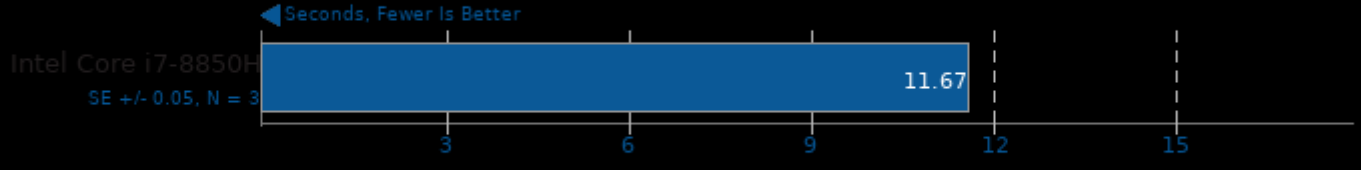
1. (CXX) g++ options: -fvisibility=hidden -logg -lm

System GZIP Decompression

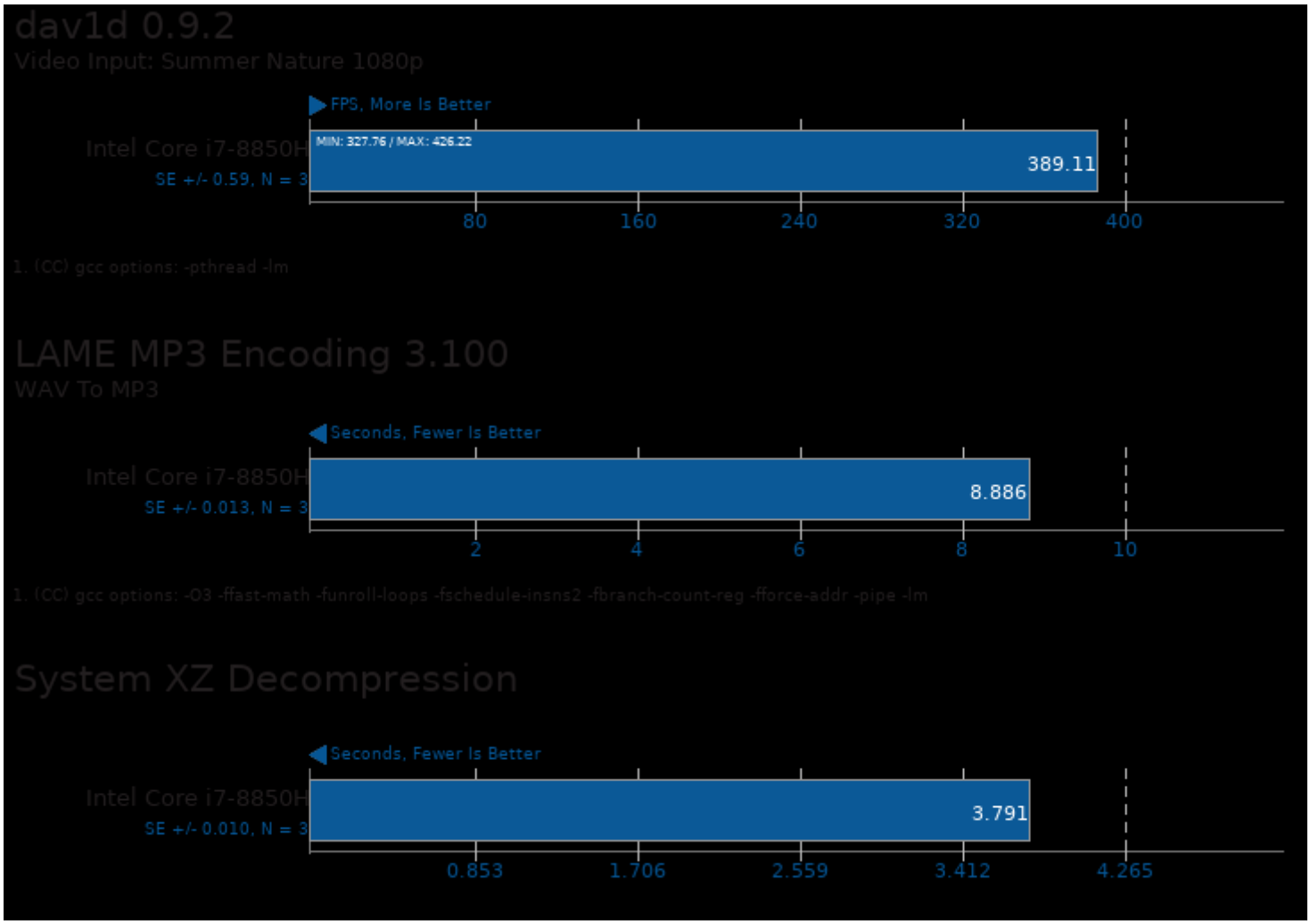


Timed MAFFT Alignment 7.471

Multiple Sequence Alignment - LSU RNA



1. (CC) gcc options: -std=c99 -O3 -lm -lpthread



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