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ARM Quad-Core Cortex-A15 ODROID-XU

ARMv7 rev 3 testing on Ubuntu 13.10 via the Phoronix Test Suite.

Test Systems:

ODROID-XU ARM A15

Processor: ARMv7 rev 3 @ 1.80GHz (4 Cores), Motherboard: ODROIDXU, Memory: 2048MB, Disk: 8GB SD08G

OS: Ubuntu 13.10, Kernel: 3.4.5 (armv7l), Compiler: GCC 4.8, File-System: ext4, Screen Resolution: 1280x720

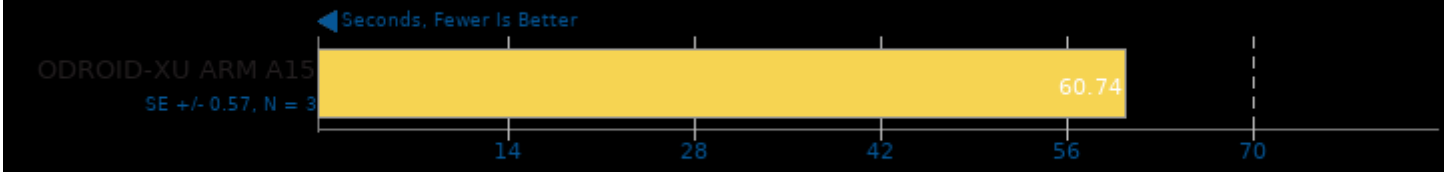
Compiler Notes: --build=arm-linux-gnueabihf --disable-browser-plugin --disable-libitm --disable-libquadmath --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-gnu-unique-object --enable-gtk-cairo --enable-java-awt=gtk --enable-java-home --enable-languages=c,c++,java,go,d,fortran,objc,obj-c++ --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-nls --enable-objc-gc --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --target=arm-linux-gnueabihf --with-arch-directory=arm --with-arch=armv7-a --with-ecj-jar=/usr/share/java/eclipse-ecj.jar --with-float=hard --with-fpu=vfpv3-d16 --with-java-home=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf/jre --with-jvm-jar-dir=/usr/lib/jvm-exports/java-1.5.0-gcj-4.8-armhf --with-jvm-root-dir=/usr/lib/jvm/java-1.5.0-gcj-4.8-armhf --with-mode=thumb -v
Processor Notes: Scaling Governor: exynos_cpufreq performance

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	ODROID-XU ARM A15
Timed HMMer Search - P.D.S (sec)	60.74
Standard Deviation	1.6%
Timed MAFFT Alignment - M.S.A (sec)	24.16
Standard Deviation	2.2%
x264 - H.2.V.E (FPS)	23.18
Standard Deviation	2.7%
Himeno Benchmark - P.P.S (MFLOPS)	181.66
Standard Deviation	1.5%
C-Ray - Total Time (sec)	124.69
Standard Deviation	0.7%
Smallpt - G.I.R.1.S (sec)	695
Standard Deviation	0.7%
FLAC Audio Encoding - WAV To FLAC (sec)	20.56
Standard Deviation	3.2%
LAME MP3 Encoding - WAV To MP3 (sec)	51.29
Standard Deviation	0.2%
Ogg Encoding - WAV To Ogg (sec)	32.48
Standard Deviation	1%
FFmpeg - H.2.H.T.N.D (sec)	114.70
Standard Deviation	1.7%
N-Queens - Elapsed Time (sec)	154.64
Standard Deviation	0.8%
Apache Benchmark - S.W.P.S (Reqs/sec)	2108
Standard Deviation	0.9%

Timed HMMer Search 2.3.2

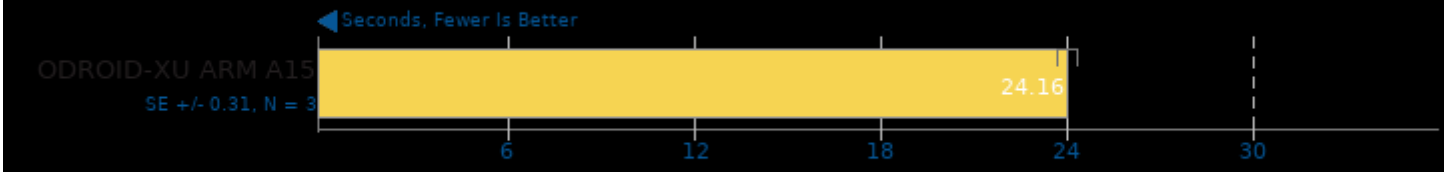
Pfam Database Search



1. (CC) gcc options: -O2 -pthread -lhmmer -lsquid -lm

Timed MAFFT Alignment 6.864

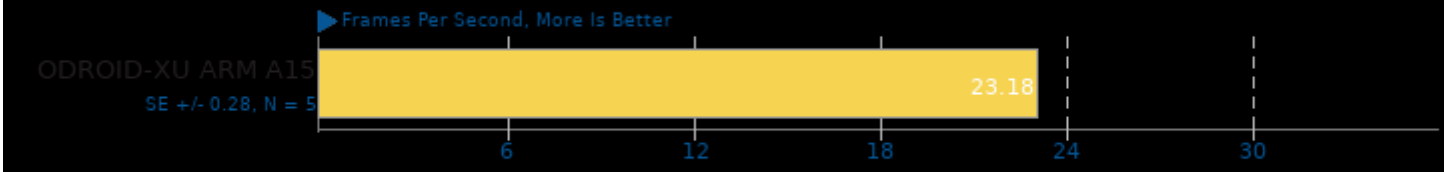
Multiple Sequence Alignment



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

x264 2013-06-08

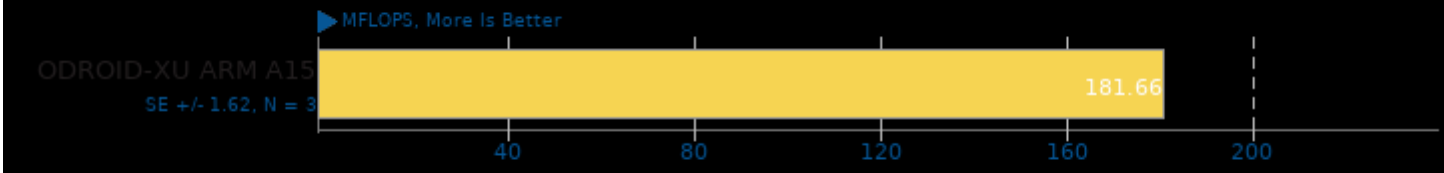
H.264 Video Encoding



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

Himeno Benchmark 3.0

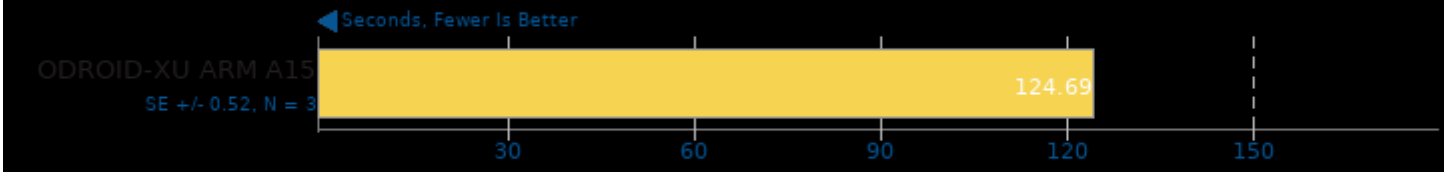
Poisson Pressure Solver



1. (CC) gcc options: -O3

C-Ray 1.1

Total Time

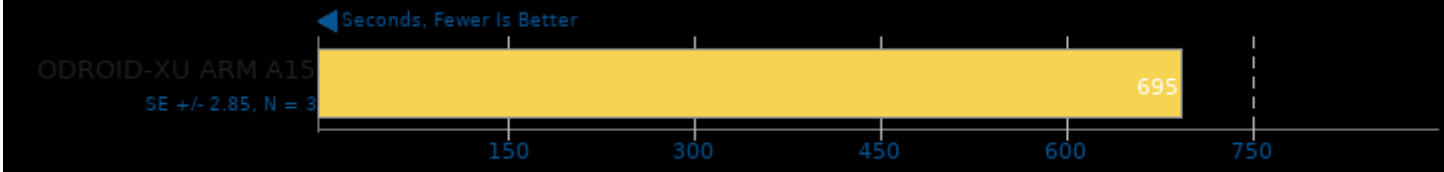


1. (CC) gcc options: -lm -lpthread -O3

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Smallpt 1.0

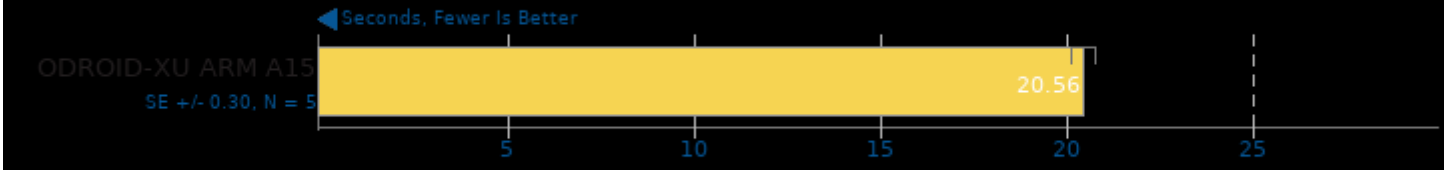
Global Illumination Renderer; 100 Samples



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

FLAC Audio Encoding 1.3.0

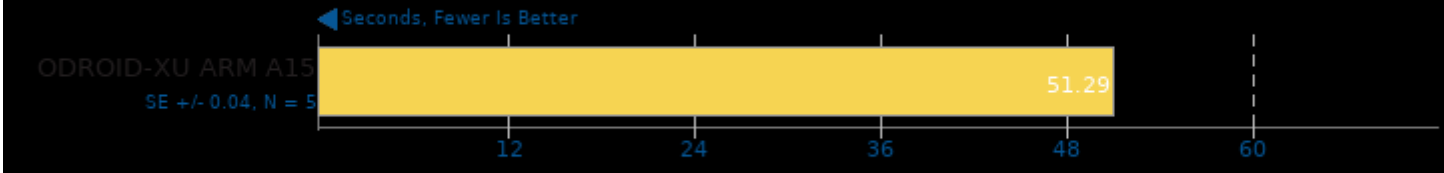
WAV To FLAC



1. (CXX) g++ options: -O2 -fvisibility=hidden -logg -lm

LAME MP3 Encoding 3.99.3

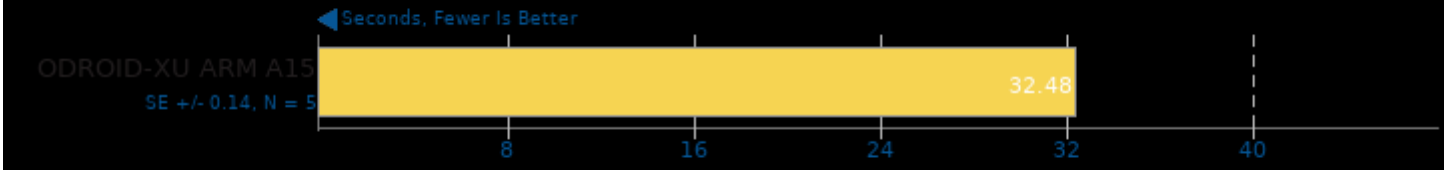
WAV To MP3



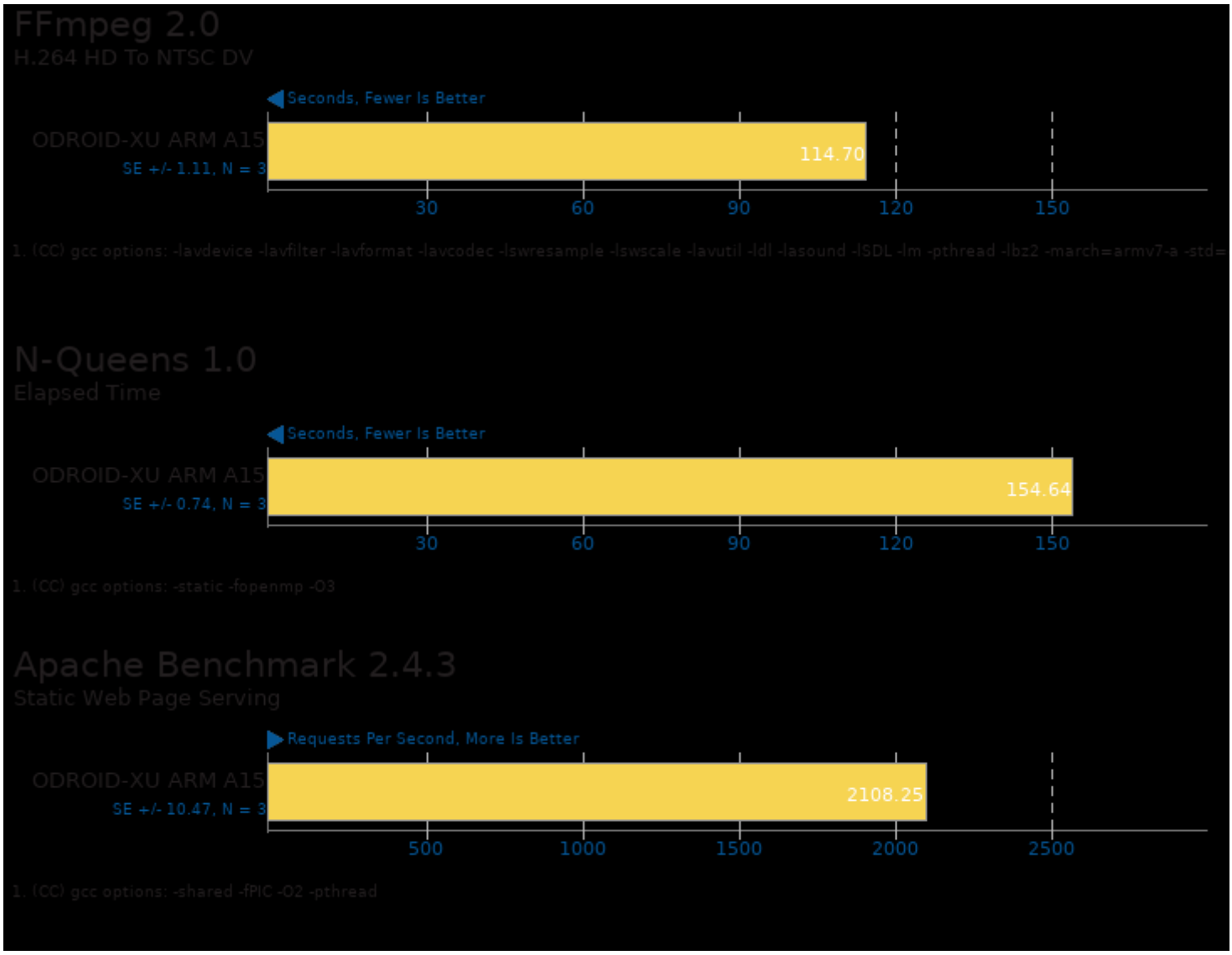
1. (CC) gcc options: -O3 -fomit-frame-pointer -ffast-math -pipe -lm

Ogg Encoding 1.3.0

WAV To Ogg



1. (CC) gcc options: -O2 -ffast-math -fsigned-char -lm -logg



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