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Gentoo Odroid Xu4 audio

ARM Cortex-A7 r0p5 (ECO: 0x00000000) testing on FreeBSD via the Phoronix Test Suite.

Test Systems:

Gentoo Glibc SDcard 10.2 Default

Processor: ARMv7 Cortex-A15 @ 1.40GHz (8 Cores), Motherboard: Hardkernel ODROID-XU4 Odroid XU4, Memory: 2048MB, Disk: 16GB SDW16G + 64GB SP64G

OS: Gentoo 2.7, Kernel: 5.4.98+ (armv7l), Display Server: X Server, Compiler: GCC 10.2.0 + Clang 11.1.0 + LLVM 11.1.0, File-System: ext4

Processor Notes: Scaling Governor: cpufreq-dt performance

Armbian Glibc EMMC 10.2 Default

Processor: ARMv7 Cortex-A15 @ 1.20GHz (8 Cores), Motherboard: Hardkernel ODROID-XU4 Odroid XU4, Memory: 2048MB, Disk: 64GB SP64G + 16GB SDW16G, Graphics: exynosdrmfb

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OS: Ubuntu 20.04, Kernel: 5.11.2-odroidxu4 (armv7l), Compiler: GCC 9.3.0, File-System: ext4, Screen Resolution: 1920x1080

Compiler Notes: --build=arm-linux-gnueabihf --disable-libitm --disable-libquadmath --disable-libquadmath-support --disable-sjlj-exceptions --disable-werror --enable-checking=release --enable-clocale=gnu --enable-default-pie --enable-gnu-unique-object --enable-languages=c,ada,c++,go,d,fortran,objc,obj-c++,gm2 --enable-libstdcxx-debug --enable-libstdcxx-time=yes --enable-multiarch --enable-multilib --enable-multilib --enable-nls --enable-objc-gc=auto --enable-plugin --enable-shared --enable-threads=posix --host=arm-linux-gnueabihf --program-prefix=arm-linux-gnueabihf- --target=arm-linux-gnueabihf --with-arch=armv7-a --with-default-libstdcxx-abi=new --with-float=hard --with-fpu=vfpv3-d16 --with-gcc-major-version-only --with-mode=thumb --with-target-system-zlib=auto -v
Processor Notes: Scaling Governor: cpufreq-dt performance

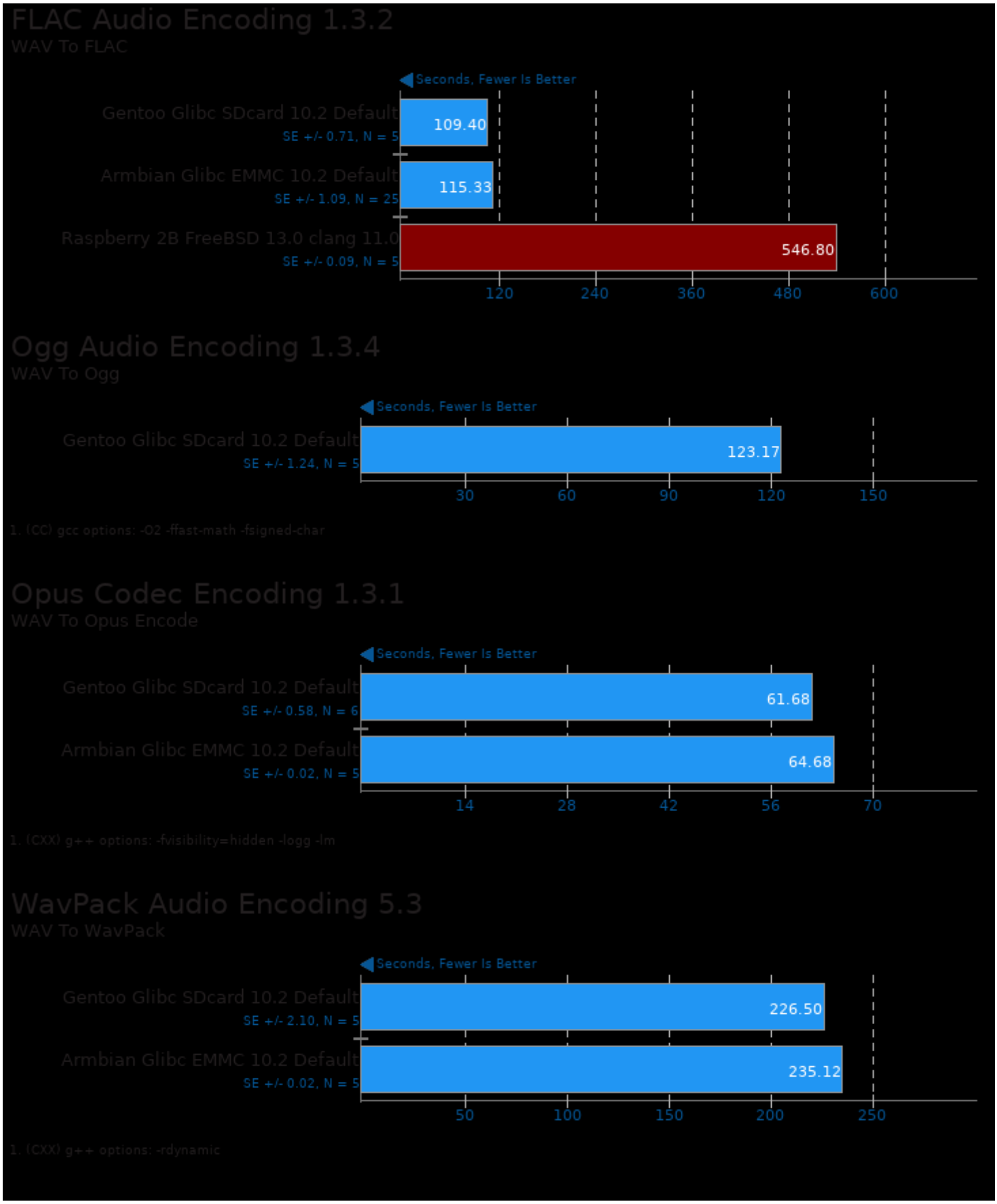
Raspberry 2B FreeBSD 13.0 clang 11.0

Processor: ARM Cortex-A7 r0p5 (ECO: 0x00000000) @ 1.00GHz (4 Cores), Memory: 1024MB, Disk: 58GB

OS: FreeBSD, Kernel: 13.0-RELEASE (arm), Compiler: Clang 11.0.1, File-System: ufs

	Gentoo Glibc SDcard 10.2 Default	Armbian Glibc EMMC 10.2 Default	Raspberry 2B FreeBSD 13.0 clang 11.0
FLAC Audio Encoding - WAV To FLAC (sec)	**109.404**	115.333	**546.795**
Normalized	100%	94.86%	20.01%
Standard Deviation	1.4%	4.7%	0%
Ogg Audio Encoding - WAV To Ogg (sec)	123.171		
Standard Deviation	2.2%		
Opus Codec Encoding - WAV To Opus Encode (sec)	**61.679**	**64.681**	
Normalized	100%	95.36%	
Standard Deviation	2.3%	0.1%	
WavPack Audio Encoding - WAV To WavPack (sec)	**226.503**	**235.116**	
Normalized	100%	96.34%	
Standard Deviation	2.1%	0%	

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