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benchmarking

Intel Core i7-4770 testing with a MSI H87-G43 (MS-7816) v1.0 (V2.14B11 BIOS) and Intel Xeon E3-1200 v3/4th Gen Core IGP on Ubuntu 17.10 via the Phoronix Test Suite.

Test Systems:

ubik-audio

ubik-audio2

ubik-audio3

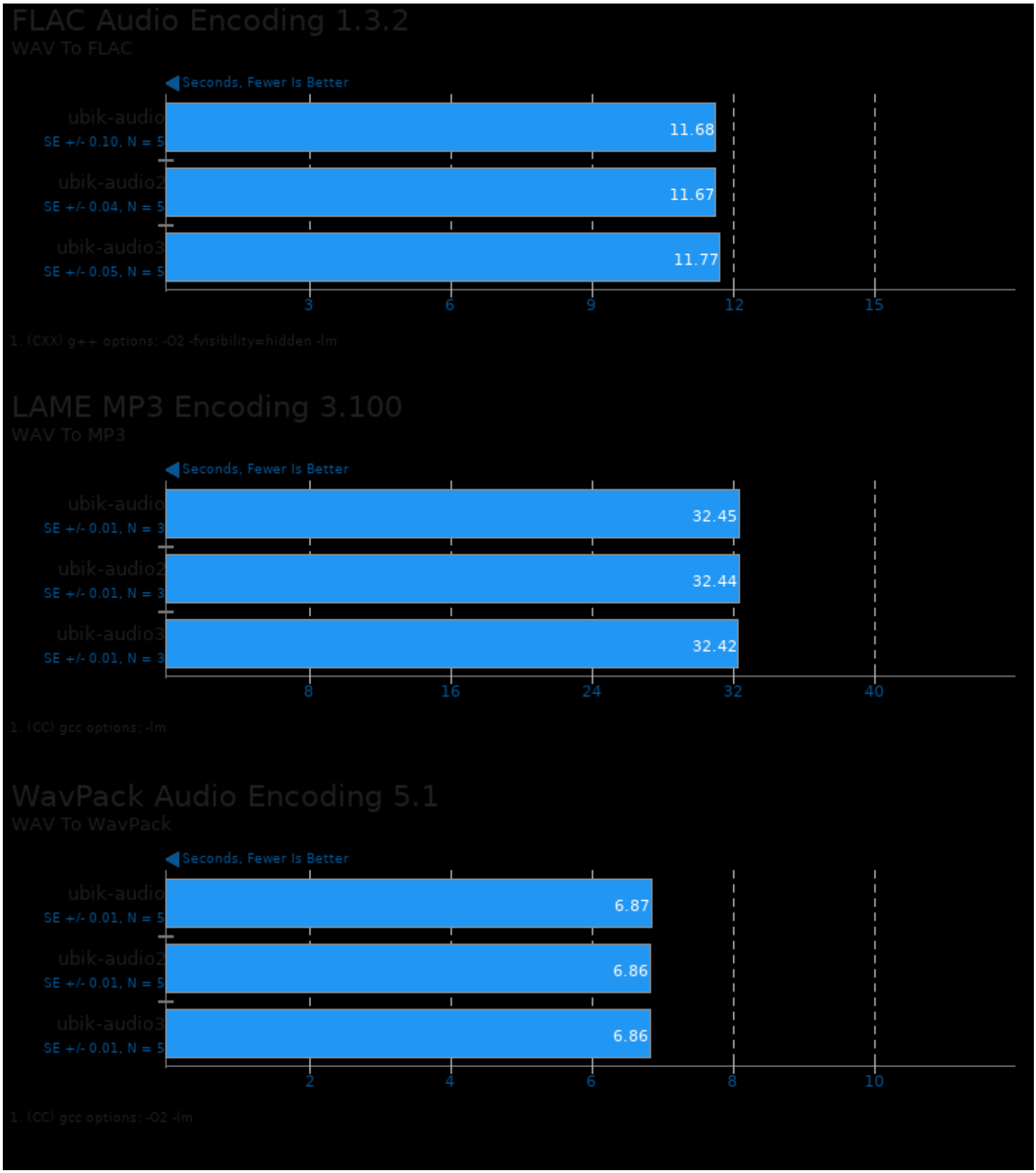
Processor: Intel Core i7-4770 @ 3.90GHz (4 Cores / 8 Threads), Motherboard: MSI H87-G43 (MS-7816) v1.0 (V2.14B11 BIOS), Chipset: Intel 4th Gen Core DRAM, Memory: 4 x 8192 MB DDR3-1600MT/s, Disk: 2 x 2000GB Western Digital WD2000FYYZ-0, Graphics: Intel Xeon E3-1200 v3/4th Gen Core IGP, Network: Realtek RTL8111/8168/8411

OS: Ubuntu 17.10, Kernel: 4.13.0-38-generic (x86_64), Compiler: GCC 7.2.0, File-System: ext4

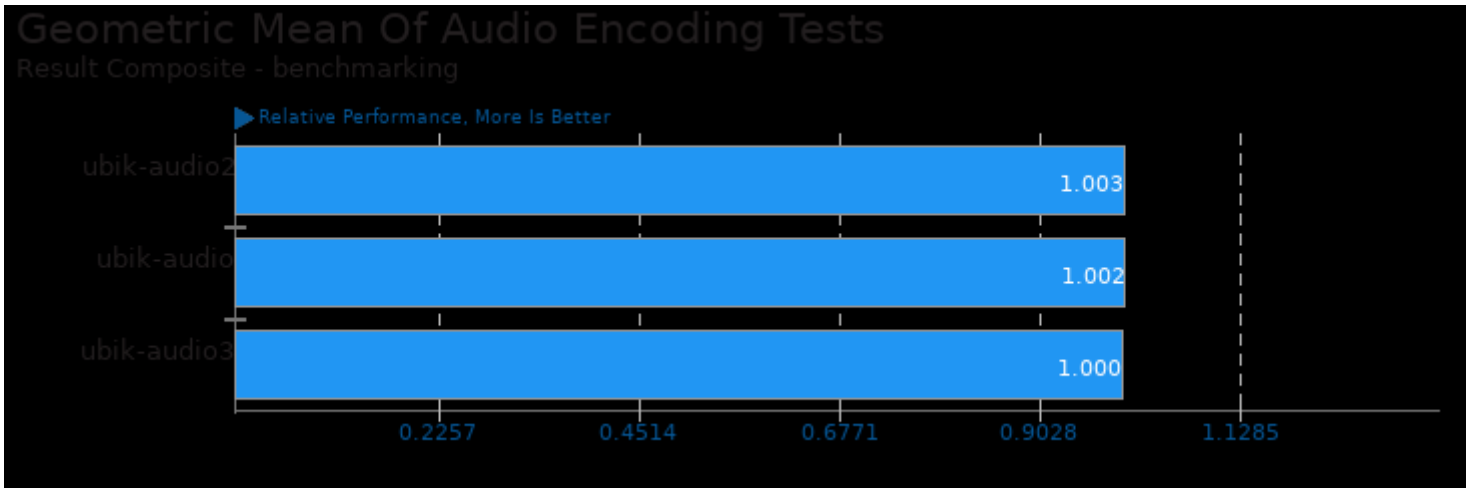
benchmarking

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++ --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 performance
Security Notes: KPTI + OSB (observable speculation barrier Intel v6) + Full generic retpoline IBPB (Intel v4) Protection

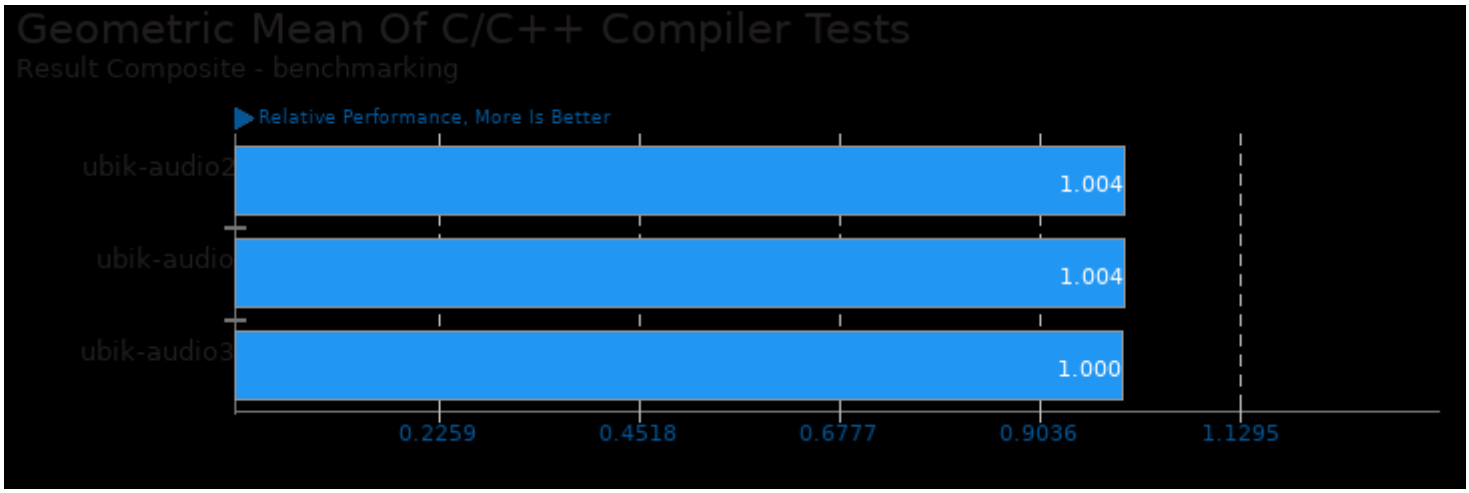
	ubik-audio	ubik-audio2	ubik-audio3
FLAC Audio Encoding - WAV To FLAC (sec)	11.68	**11.67**	**11.77**
Normalized	99.91%	100%	99.15%
Standard Deviation	1.9%	0.7%	0.9%
LAME MP3 Encoding - WAV To MP3 (sec)	**32.45**	32.44	**32.42**
Normalized	99.91%	99.94%	100%
Standard Deviation	0%	0%	0.1%
WavPack Audio Encoding - WAV To WavPack (sec)	**6.87**	**6.86**	**6.86**
Normalized	99.85%	100%	100%
Standard Deviation	0.3%	0.2%	0.2%


FLAC Audio Encoding 1.3.2
WAV To FLAC
Seconds, Fewer Is Better
ubik-audio
SE +/- 0.10, N = 5
11.68
ubik-audio2
SE +/- 0.04, N = 5
11.67
ubik-audio3
SE +/- 0.05, N = 5
11.77
3
6
9
12
15
1. (CXX) g++ options: -O2 -fvisibility=hidden -lm
LAME MP3 Encoding 3.100
WAV To MP3
Seconds, Fewer Is Better
ubik-audio
SE +/- 0.01, N = 3
32.45
ubik-audio2
SE +/- 0.01, N = 3
32.44
ubik-audio3
SE +/- 0.01, N = 3
32.42
8
16
24
32
40
1. (CC) gcc options: -lm
WavPack Audio Encoding 5.1
WAV To WavPack
Seconds, Fewer Is Better
ubik-audio
SE +/- 0.01, N = 5
6.87
ubik-audio2
SE +/- 0.01, N = 5
6.86
ubik-audio3
SE +/- 0.01, N = 5
6.86
2
4
6
8
10
1. (CC) gcc options: -O2 -lm

These geometric means are based upon test groupings / test suites for this result file.



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-wavpack



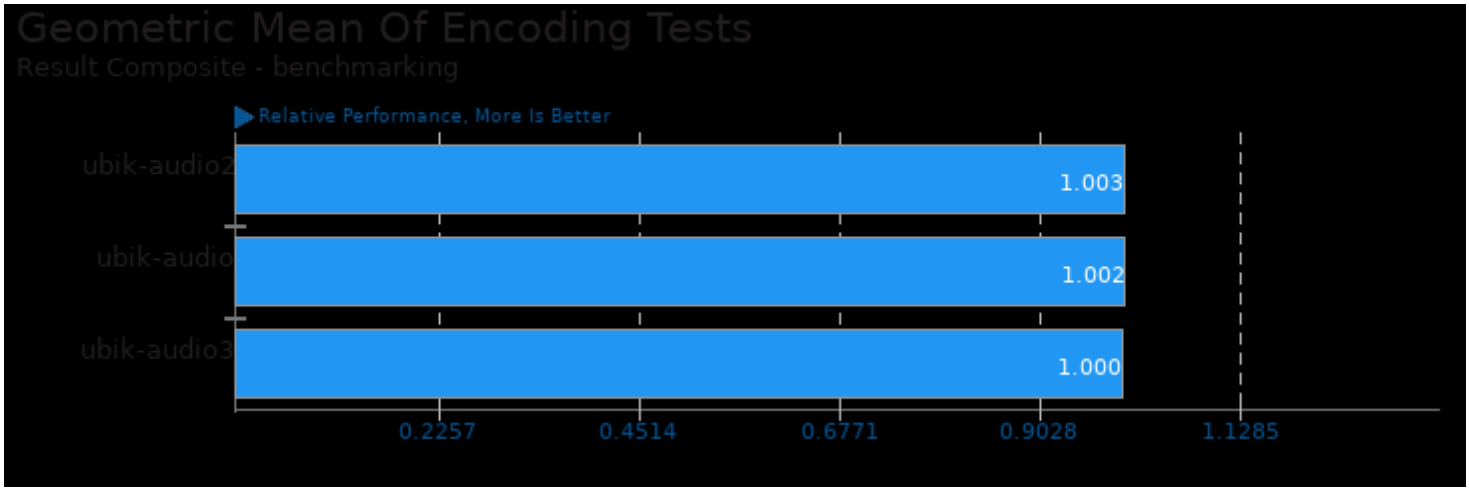
Geometric mean based upon tests: pts/encode-mp3 and pts/encode-flac



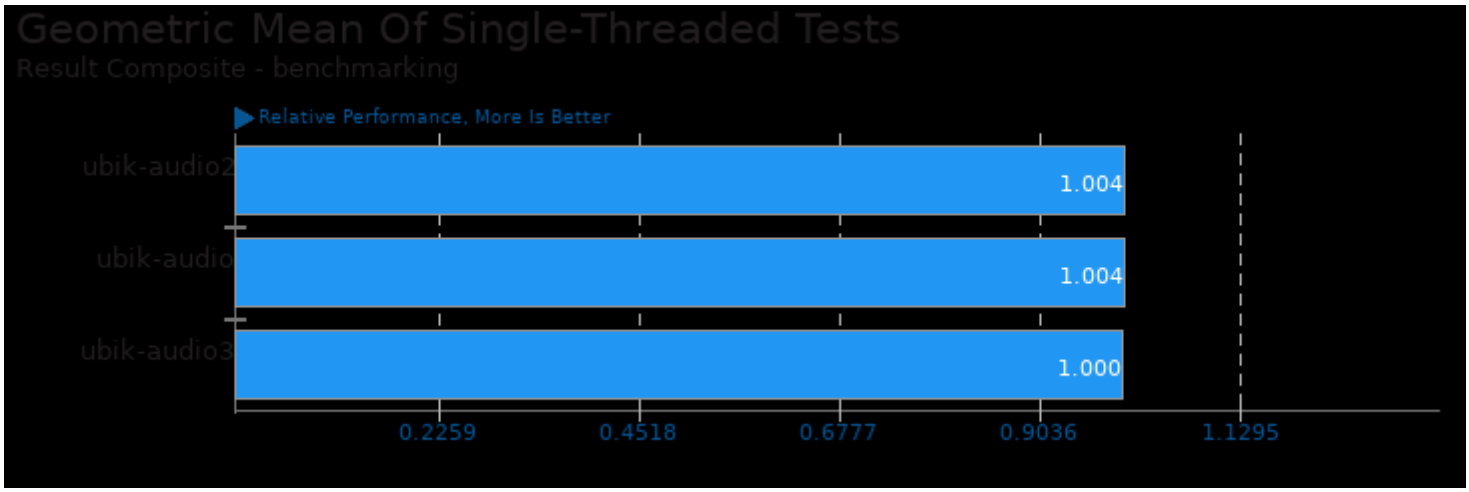
Geometric mean based upon tests: pts/encode-flac and pts/encode-mp3



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-wavpack



Geometric mean based upon tests: pts/encode-mp3, pts/encode-flac and pts/encode-wavpack



Geometric mean based upon tests: pts/encode-flac and pts/encode-mp3

This file was automatically generated via the Phoronix Test Suite benchmarking software on Friday, 29 March 2024 08:32.