Audio Conversions

Split FLAC files

```
$ sudo apt install cuetools shntool flac
$ shnsplit -f input.cue -t %n-%t -o flac output.flac
```

Convert from APE to FLAC

You'll need flac, bchunk and ffmpeg. If you run Debian or Ubuntu, just type

```
$ sudo apt-get install flac ffmpeg
```

The first step is to convert the whole .ape into .wav.

```
$ ffmpeg -i input.ape output.wav
```

And convert to flac.

```
$ flac --best output.wav
```

Then you split the .wav into individual tracks.

```
$ shnsplit -f cuefile.cue -t %n-%t -o flac output.flac
```

You can then remove the .ape, .cue and interim .wav files.

Down convert 24-bit FLAC to 16-bit FLAC

Basic example - without resampling

```
$ ffmpeg -i input.flac -sample_fmt s16 -ar 44100 output.flac
```

List sample formats: ffmpeg -sample_fmts List additional flac encoding options: ffmpeg -h encoder=flac

With resampling

FFmpeg supports two resamplers: the default swresample library, and the external SoX resampler (soxr).

aresample filter example

```
$ ffmpeg -i input.flac -af
aresample=out_sample_fmt=s16:out_sample_rate=44100 output.flac
```

Either example will result in the same output: you can verify with the hash muxer. Changing the dithering method See the -dither_method option for a list of available dithering methods and additional resampling options. Example:

```
$ ffmpeg -i input.flac -dither_method triangular_hp -sample_fmt s16 -ar
44100 output.flac
```

The SoX resampler

To use soxr your ffmpeg must be compiled with –enable-libsoxr. Then choose it with the -resampler option:

```
$ ffmpeg -i input.flac -resampler soxr -sample_fmt s16 -ar 44100 output.flac
```

Or use the aresample filter to do it all:

```
$ ffmpeg -i input.flac -af
aresample=resampler=soxr:out_sample_fmt=s16:out_sample_rate=44100
output.flac
```

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