

# DVDA authoring

## SOX

Convert bitrate for dir:

```
mkdir 96 # make subdir for converted files
for i in *.flac; do sox "$i" "96/$i" rate 96k ; done
```

## lplex

- Audio files must be wav or flac, dvd-compliant:
  - 16 or 24 bit
  - 48 or 96 khz
  - 1-8 channels

and match within each titleset. 20 bit audio is not supported.

create a .ISO with files from directory:

```
lplex -t pal -c iso -C yes -L yes -l padded *.flac
```

```
-t ntsc|pal|secam
-c lpcm|m2v|dvdstyler|mpeg|dvd|iso
--cleanup, -C yes|no delete interim files when done.
--dir, -d <dir> output everything to this directory.
--dvdpath, -p <dir>|adjacent output dvd files to this directory.
--workpath, -w <dir> use this folder for temporary space.
--isopath, -a <dir>|adjacent output disc images to this directory.
--extractpath, -E <dir>|adjacent extract to this directory.
--unauthor, -u extract audio from dvd.
--formatout, -f wav|flac|flac#|raw extract audio to this format. (flac equals flac8)
--verbose, -v no|yes
--color, -L yes|no|dark|bright

--splice, -l seamless|discrete|padded|none
splice the tracks together this way.
```

How to physically structure the immediate track transition point:

seamless

("concert" mode - lossless, gapless, unpadded). Track startpoints will be shifted to where audio and video frames are in alignment, ensuring gapless playback and no need for any padding between tracks. Shift direction is determined by the shift setting (see below).

discrete

("compilation" mode - lossless with gaps and padding). Tracks will be padded with silence to the next full audio frame in order to prevent stream truncation during multiplexing. A playback gap (equal to video duration - audio duration) is introduced. An additional half-second pause will also occur during playback because of stc discontinuity.

padded

("compilation" mode - lossless with padding only). Tracks will be padded with silence to the next point of a/v frame alignment. Unlike discrete there is technically neither a playback gap nor a discontinuity pause in this model, though the padding is much greater.

none

("as-is" mode - lossy, unpadded, with gaps). Tracks will be padded to next dvd sample unit if required. Audio will be dropped at the end of each track, unless your files happen to be the exact length to require no truncation.

The purpose of this setting is to achieve clean, efficient transitions and to avoid undesirable playback artifacts such as gaps and pops. It is not intended as an audio effect and its scope is always less than one video frame. If you want an extended pause between tracks you must include physical silence in your source audio.

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