



MuseBox

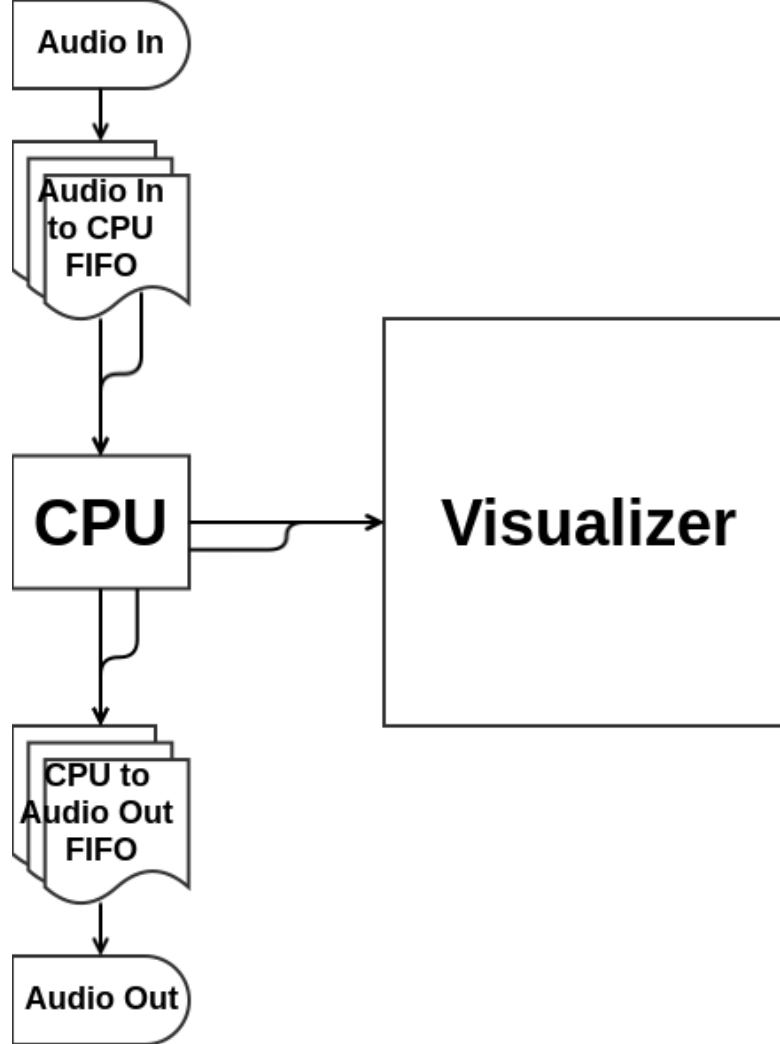
An Audio Equalizer/Visualizer

Overview

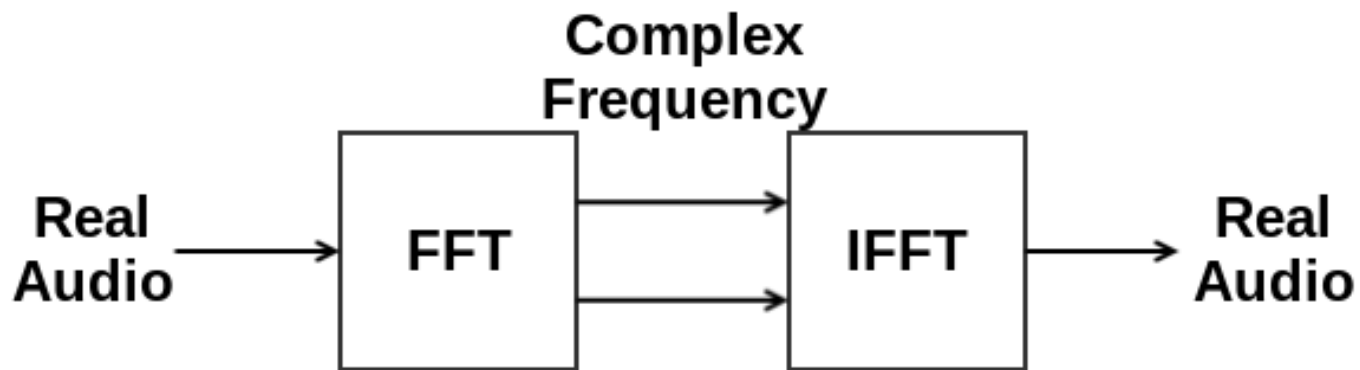
- 🎵 Read in frequency-domain analog sound wave
- 🎵 Use FFT to convert frequency domain to time domain
- 🎵 Equalize data in CPU by scaling
- 🎵 Map changes in amplitude to visual screen
- 🎵 Send to iFFT then to Audio Out



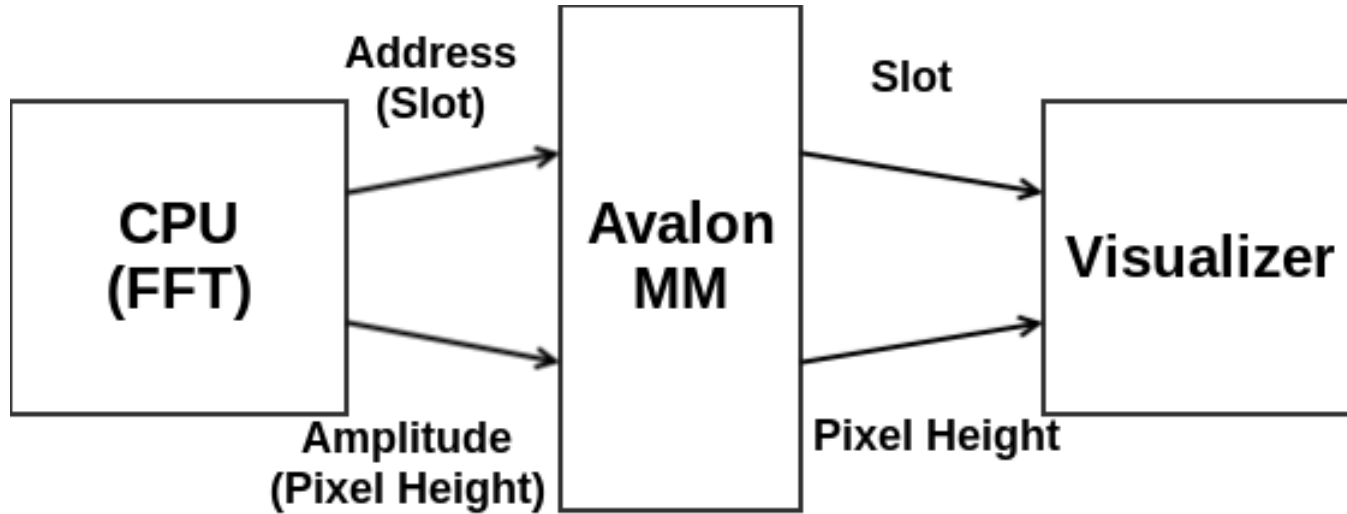
Design



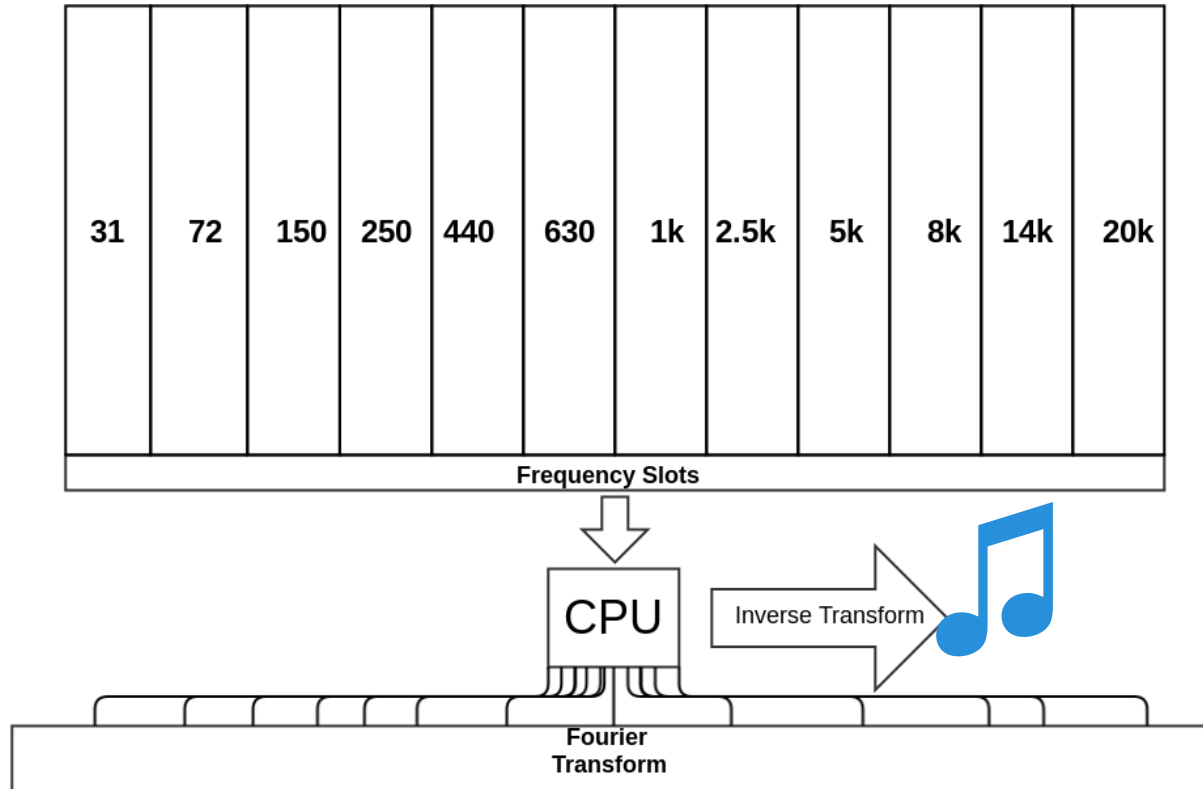
FFT



Visualizer



Equalizer



Overlap Add Method

