

MATLAB EQ: RESULTS*

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Abstract

End result of our Visual Equalizer.

*Version 1.1: Dec 19, 2007 9:18 am -0600

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1 Results

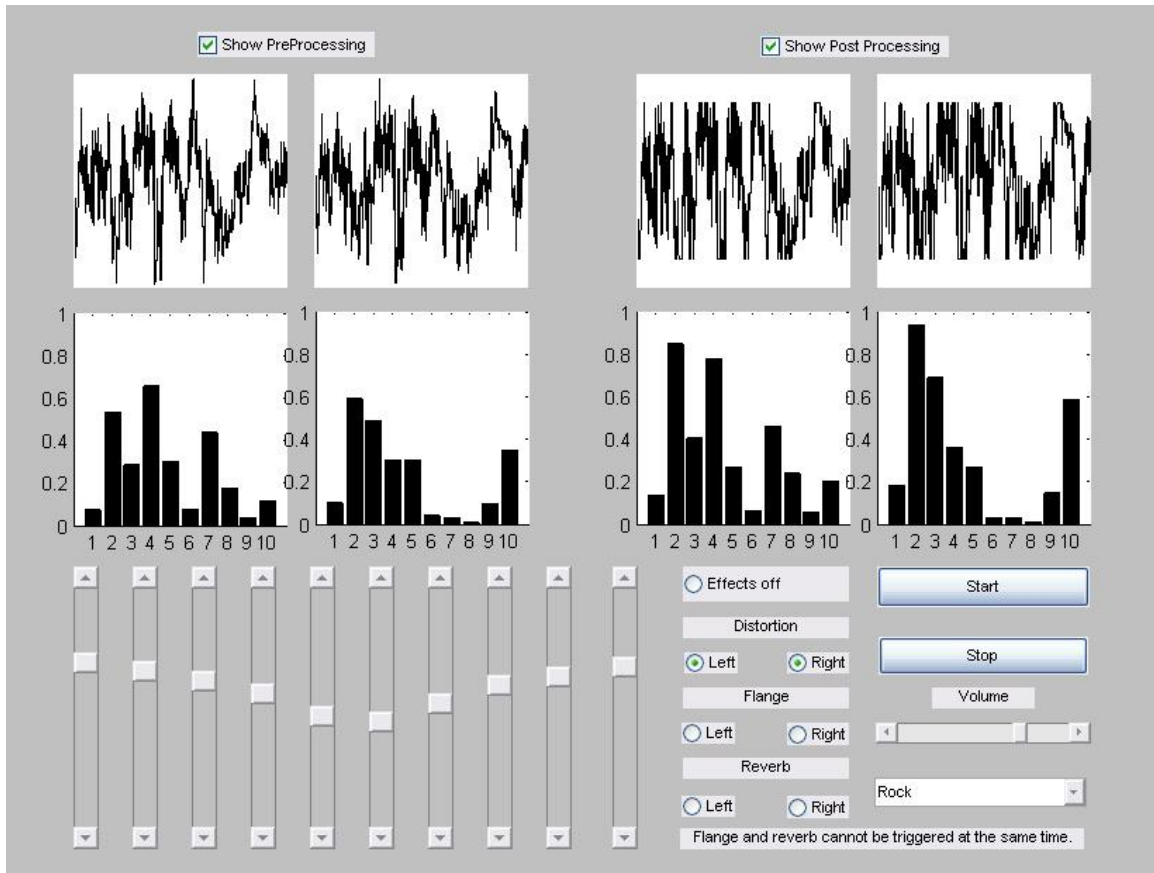


Figure 1

The above figure is a demonstration of the end result of our Visual Equalizer.

As shown, we were able to implement a real-time spectrum analysis of the signal in dual-channel (stereo) mode, with the preprocessed signal on the left and the post-processed signal on the right. The graphs on the bottom represent the 10 binned frequency blocks in a logarithmic queue up to 22.05 KHz.

Each frequency block can be adjusted to modify the gain levels. The Distortion, Flange, and Reverb options implement each command in the left channel, right channel, or dual-channel modes. The Volume control is the Unity Gain, increasing the amplitude over all the frequency blocks. The Start and Stop buttons begin or end the visual spectrum processing.

As a bonus, we threw in audio presets such as Rock, Treble Booster, Bass Booster, etc.