

ABSTRACT

The tone is the sound of a uniform. Someone who plays a musical instrument usually relied from the basic tone to be played, for example, the basic tone C=do mean a person who plays a tone based on the octave C. But in its development, one can raise or lower the basic tone is commonly called the Transpose. In this final project will be designed a system that is able to record sound and transposing guitar music that is played according to the mol (b) or kres (#) are inserted by the guitar player. Octave guitar tone can be changed in accordance with the wishes of the user without having to change the basic key or melody he played.

System design to take function of Fast Fourier Transform to transform guitar music recorded to the frequency domain after it is shifted so that output spectrum of the system is expected to music that has been raised and lowered.

Systems which using this FFT method obtained performance above 90% for the accuracy of the system in transposing the tone and the average value of 10 respondents MOS 4.2, which means the results are good.

Keywords: Transpose, tone, frequency, output, music, FFT, MOS