ABSTRACTION

A Harmony's tone is a symbol which represent high and harmony value. This tone use number range from 1 to 7. Number represents note high, note value represented by note's value line which having form horizontal line on number. Every line bisect from a value of a tone. More line means shorter / less note's value. Javanese Gamelan can determined becomes two harmony, there are Slendro and Pelog. Slendro has 5 tone each octave, that are 1 2 3 5 6 with have same interval or whether it different, the interval differences are very minor. Pelog has 7 tone each octave, that are 1 2 3 4 5 6 7 which a major interval difference.

STFT (Short Time Fourier Transform) is a algorithm developed from FFT (Fast Fourier Transform). STFT algorithm will cite input signal in certain time (t) range. Early signal input still in domain frequency. Signal from citing will place time and frequency domain. For signal citing, STFT use window function with window wide (T) equal with citing signal. Window function placed in first signal to each different frequency.

This final project research to know accuracy from program made with STFT method against tone definition base on frequency. Accuracy level determined from how much harmony's tone expected and affected by sum frame factor and moving area coefficient The accuracy results of the system has made reaching 87,53% with value of N frame 256 and moving area coefficient 5. Average processing time is 0.90 s.

Keyword : window, STFT, frequency, harmony's tone, frame, moving area coefficient