**ABSTRACT** 

In previous research ever designed the application of song title

identification from humming humans. However the app still separates manually

between verse and reff parts in its database. Therefore, in this final project

designed a system to determine the reff of songs automatically, provided that

already know the position of the first reff of the song.

The system was designed using full song input which is then determined

by the first part of the reff, then extraction feature using Discrete Cosine

Transform (DCT) method. Next is done matching the pattern of the song section

by using autocorrelation to get the second and third part of the corresponding

reff..

After testing with scenarios that are designed then obtained the results of

the system output. The scenario is to determine the most ideal frame size to

produce the best accuracy and computation time. In this study the frame size used

is 100 ms, 200 ms, 300 ms, 500 ms, 800 ms, 900 ms, 1000 ms and 2000 ms. From

the results that have been tested, the system gets good results on the frame size of

800 ms, 900 ms and 1000 ms is 96%, with the best computation time of 14

seconds at 1000 ms frame size.

Keywords: Song, Reff, Discrete Cosine Transform (DCT).