

## ABSTRACT

Digital processing is often used for examining audio or visual things or both of them. Digital video is commonly used in our daily application, one of them is used to encryption process in a video file.

In this final project we use digital video processing technology application in order to secure the copyright of the video files with encryption system. In this encryption system we uses macroblock interval and frame interval applied DES chryptography algorithm ( Data Encryption Standart).

The result from this system implementation is how the system is able to convert video files into encrypted video files so this video is not comfort for watching. Optimization of the interval macroblocks and interval of frame on the system are expected to provide optimal performance with minimal computing time.

From the experiment that have been done by the method of comparison interval macroblocks and interval of frames obtained results that the greater of the interval macroblocks get smaller computation time and the greater of the interval frame make the effect of the encryption is not visible and The most optimum frame interval is two frames.

Key words: video sharing, encryption, DES algorithm, interval of macroblocks, interval of frames