

## **ABSTRACT**

*Security of data, especially on the video file is very important to be kept confidential. This has to do with copyright. For that developed a method that aims to randomize video files, so it can not be accessed by others who are not interested.*

*Encryption Data Algorithm Standard (DES), an encryption algorithm with a symmetric key, one of the cryptography method introduced by WL Tuchman in 1972 at the IBM lab. DES algorithm, processed at 64 bit plain. DES algorithm using external keys up to 8 characters or 64 bits. The external keys are processed to produce 16 pieces of internal key with each key length 48 bits. The internal lock is a part in the process of encryption and decryption. In addition the DES algorithm also uses the s-box predefined eight pieces, which will be used in the Feistel system. DES algorithm is quite good with the loop 16 times on the stages of encryption and decryption. This makes plain file encryption function optimally.*

*DES Algorithm felt able to be applied to the cryptographic process on the video files, especially video files to WMV format. This is because the result of encryption of video files is very different from the original video file. WMV video file format is a video format windows, which can be played using a variety of video player.*

*Keyword:*

*Cryptography, DES algorithm, WMV video formats*