Abstract

Due to the technology improvement, many multimedia files have to be secured on its distribution. One of the techniques to secure the data is to encrypt them with cryptographic algorithm such as Rabbit. Rabbit is a new cryptography algorithm which now still participates in a project to search a new standard of stream cipher algorithm.

The goal of this final task is to make an implementation of multimedia data security by encrypting the data using Rabbit algorithm. From the experiment that have been conducted, it is found that this algorithm can encrypt a multimedia data with the speed up to 3,5 MB/second. This algorithm is also has a good value of avalanche effect.

So, now we can conclude that Rabbit algorithm can be implemented for securing multimedia data.

Keywords: *rabbit, stream cipher, cryptography, multimedia.*