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 MICKEY-128. MICKEY-128 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 MICKEY-128 algorithm owning performance with complexity of hardware low and also mount high security. From the experiment that have been conducted, it is found that this algorithm can encrypt a multimedia data with the speed up to 4,5 MB/second. This algorithm also have good value of avalanche effect that is 51.3159% value of avalanche effect for case to different plainteks and 53.9473% for case to different key.

So, now we can conclude that MICKEY-128 algorithm can be implemented for securing multimedia data.

Keywords: *MICKEY-128, stream cipher, cryptography, multimedia.*