

Abstract

The security is the main idea in information system, especially for exchange data that so important or secret. Information that given to authorized user must be focused on security, and prevent from unauthorized user.

One way to keep the security of information exchanged in the system is cryptography method, that is representing art and science for hiding the information from the third party. In cryptography, a person that has private key can change the original data (plaintext) become unique data that can not be read (ciphertext) and can return the ciphertext into plaintext use the same private key.

In this final task, we made a system that built in Borland C++ Builder 6.0 that maintain for analyze performance comparison between Sosemanuk and Dicing algorithm in process speed for encryption and decryption, memory that needed when processing, and avalanche effect value.

Keywords: cryptography, private key, Sosemanuk, and Dicing.