ABSTRACT

The need to transmit information from one place to another becomes very easy to do at the present time. Technology hardware used to experience rapid growth, as well as the complexity of the software algorithms used in it. This causes a rapid process of information delivery. The type of information that can be sent even more diverse, from which only can post a small, up to multimedia forms that require complex calculations such as video.However, new problems that arise in the delivery of information security issues. Steganography is one way to hide a message / secret data in the data or other messages that seem not contain anything, except for those who understand the key. Steganography can be used in various forms of data, ie images, audio, and video.dengan the steganography the message sender can feel more secure.

In the final project will be carried out simulations using the matlab software programming. By using MPEG video format as the carrier media and text messages as confidential. Simulations were carried out, among others, the process of insertion and extraction as well as the process of counting the accuracy of this system.

Results of this final form of system that can provide output in the form of video files steganograf, key files and SSIM parameter values that become the benchmark of quality comparison video. As well as the output of the receiver side of the confidential information. And the accuracy of the system can also calculate in percentage. Results from this system to get accuracy results text message 100%, the value of the mos has an average yield of 4.77 and SSIM values close to 1.

Keywords: steganography, fast Fourier transform, mpeg, color space, SSIM