ABSTRACT

Compression is a technique downsizing of the data so that the data has a size smaller than its original size. At the time of this have now with the advent of internet technology and habits of modern society is increasingly frequent to download or upload data to the internet either to social media or personal use compression techniques to make becoming a necessity in every application and technology.

In this final project will be an analysis of the two compression techniques that Wavelet compression technique is already widely known and Slantlet compression who are common but have good ability in terms of image compression.

In this time of testing the parameters of the comparison is PSNR, MSE, compression ratio, and processing time. Based on the analysis and testing on multiple images, obtained Slantlet method has an average PSNR value of 35.67 and 34.62 for Wavelet. Value Slantlet and Wavelet compression ratio is almost the same, which means these two techniques memiiliki average ability is almost the same compression ranged between 45% - 95%. Average processing time is faster Slantlet dibading Wavelet ie 182 seconds to Slantlet and 217 seconds for Wavelet.

Keywords: *Image Compression, Slantlet, Wavelet, SPIHT*