

ABSTRACT

Video as one multimedia component plays an important role as a form of visual information. But the biggest obstacle is the large file storage. The second problem is during the compression process takes a long time because it is used parallel computing to solve it.

In this thesis discussed the use of Huffman Code for compression method with a large amount of data, ie on a Frame Video using color intensity values for each pixel as pixel data and layout as the dimensions of the matrix. The data observed is the speed of the compression process, the ratio between the number of bits before and after compression, and the difference using a serial (sequential) and Parallel computing (parallel).

Results showed that the rate of 1 frame compression process takes about 8 minutes while the compression process for 1 frame with Parallel computing takes about 4 minutes. The compression ratio between sequential and parallel at approximately 89,82% and 95,71%.

Keywords: compression (compression), Huffman code, rendering, Parallel, Skuensial