

ABSTRACT

Several examples of *data compression* technology being improved at present are byte grouping. These technologies are quite simple that is used basic arithmetic to apply. Thus nonetheless these method was quite new that enable to develop to increase those performance.

The problem having become the object of final assignment research and development is how to implement *byte grouping* method to compress data, especially text data.

In this final assignment, it will be made a software to realize byte grouping method as a tool for compression performance observation in *data compression* and *decompression* process. The observation is made by testing some file, that is calgary corpus and Canterbury corpus. And then make analysis from the result.

From its result, it says that the ratio compression influenced by group size. More less group size, then more less file size produced. And speed compression influenced by file size and group size. More bigger file size, more longer speed compression. And smaller group size, more faster speed compression.

Keywords : *Data Compression, Byte Grouping, compress, decompress.*