ABSTRACT

The Internet technology has been widely used for any information delivery. This activity certainly require a data storage media for storing such information. Regardless of the data storage media it used, would not be separated from the fact that the data storage media has a major constraint is limited capacity.

The design and implementation of the LZW compression algorithm is the best solution for this major constraint. LZW algorithm designed at local web server first using PHP programming language and databases management system, then embedded in a website which is designed for the implementation, so the website's article which will be stored in the database must be compressed first and then decompressed for every time the article being readed.

LZW algorithm which is a dictionary-based compression, very effective to compress text data in which there are many repetitive patterns of letters, words, or sentences. Because, the more rich vocabulary of the combined string in the additional dictionary for a plaintext in a single compression process, the better the compression results of the plaintext. Other advantages is the relatively short time compression would not be such a waste of time to run a process every single time. With the implementation of the LZW algorithm on the web server, article storing being multiplied, it can be seen from saving percentage value each article storing that range between 11.6656% to 16.6656% for average saving percentage value calculation of the first 200 to 1,000 character of 10 random article.

Key word: information, internet, compression, LZW, dictionary