ABSTRACT

DATA COMPRESSION APPLICATION BASED PPM (PREDICTION by PARTIAL MATCHING) ALGORITHM in LOCAL AREA NETWORK

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As rapidly technology development growth nowadays, data has played a valuable role, not just appear in text format, image, audio, or even video, in past time data relatively didn't appear in large size, but now data could be in whaling size. To handle this situation, we need to utilize a technical manner (method) to transform the size of the data into smaller one. We know such of method as data compression.

Data compression is a transformation process to a set of data into a code format considering the necessity for data storage space. Prediction by Partial Matching (PPM) Algorithm used lossless method where the information is not completely relieved, just represents several similar data and should classified into static compression method, namely a two-pass type.

The comparison results consist of compression output capacity, compression ratio, and compression time as well as decompression.

Keywords : Data Compression, PPM.