ABSTRACT

PEMBANGUNAN APLIKASI KOMPRESI DATA TEKS DAN *CITRA DIGITAL* DENGAN MENGGUNAKAN ALGORITMA *LEMPLE ZIV STORER SYMANSKI* (LZSS) PADA JARINGAN *CLIENT-SERVER*

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Contemporary data processing activity often produce, manipulate, or consume large of data. That activity need a compression method to reduce bandwidth and increase speed in data transmission on client-server computer network.

Technology of data compression that use is compressing the data that while transmission, that aim to save data log, reduce size of data, and reduce bandwidth that used to transmissing data. Compression file method that use in this research is LZSS (Lemple Ziv Storer Semansky) algorithm and compared with Rice Coding algorithm losslessly.

Parameters that will be compared is compression ratio, presentage, and time of compression. System input by file that have extension: .docx, .doc, .pdf, .rtf, .bmp, and .jpg, that have different size. System output is file that compressed, ratio, and percentage between 15%-100%, meanwhile time of compression is between 00:00 – 03:00 per-seconds based on type and size of file that will be transmissing.

Keywords : data compression, LZSS, Rice Coding, algorithms, lossless, Client-Server.