

## Abstract

One of the limitations in the process Uploading data is that the maximum request length, besides the size of data sent to be a concern because the cost of data transmission. One way to overcome the limits of maximum request length is to reduce the file size, the other way is to enlarge the size of maximum request length. To reduce the file size can be done with the cut pieces into a file size smaller or mengkompresi file. On this task, the author conducted research on the process of file compression is done in the client-server technology using AJAX and webservis. In addition, the compression process the file in the method to combine cutting files (chunking). At the time this research compression methods that use the dictionary that is based Lemple-Ziv 77 (LZ77). Compression method is used because it can do on the AJAX. Analysis that is done by the author on the compression ratio, the data transmission speed, time compression, time decompression, methods of compression capability in the maximum request length. And the combination method performantion compression and chunking in the process of uploading. Results from this research prove that the compression method can handle maximum request length. Based on this research correlation between Window Length and Compression ratio is Linier Positif which is means that if Window length increased then Compression ratio will increase. In addition correlation between Window Length and Uploading time is Liniear Negativ which is means that if Window Length increase then Uploading time will decrease. Others information we can get about correlation between decompression time and file size is Linier Positif which is means if file size increase then decompression time will increase.

**Keywords:** Compression, AJAX, Webservices, Chunking, Lempel-Ziv 77(LZ77).