

### ***Abstract***

***Data processing from a Polling system becomes very important because the results of data processing can be used by the public to be used as a reference in dealing with a problem that is developing in the community. Growth in the use of social media has increased from year to year, where Indonesia itself is the fifth largest user of Twitter social media in the world. In the data processing, if the data to be processed is large enough, it will slow down the computation done. This encourages the author to create a system that can process polling data conducted through social media with a more efficient time. Hadoop is one of the optimal systems for use in polling data processing in this Final Project. In Hadoop there are 2 main modules namely Hadoop Distributed File System (HDFS) which is a distributed storage system, and MapReduce which is an algorithm / computation on Hadoop. In processing this poll data using the wordcount program with MapReduce on Hadoop and with the wordcount program without MapReduce. Tests of the 2 methods were conducted, tested using some data with sizes from small to large. And it is produced that, MapReduce is superior in terms of data processing speed compared to the data processing method without MapReduce. With an average of data tested, using MapReduce on Hadoop can process data 1.3 times faster than without MapReduce on Hadoop.***

***Keyword: polling, Hadoop, MapReduce, wordcount, processing speed.***