ABSTRACT

THE IMPLEMENTATION OF MAPREDUCE PROGRAMMING MODEL ON LINUX MAILING LIST SEARCH SYSTEM IN INDONESIA

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Nowdays there are so many Linux user in Indonesia, almost every big city in Indonesia has Linux user group. Every Linux user always sharing for information in milis. There are so many Linux milis in Indonesia that can be a place for search information, but there are so many Linux milis in Indonesia, it can make searching proses so long, because of that we need to make something that can make Linux user more easier to search information in milis. There are so many data in Linux milis can make a problem for building an search system, it's can make the system is slower. MapReduce is a programming model for process big data, so this programming model can be implemented on search system of milis Linux in Indonesia.

The search system will be build in three part. First is DataNode system, it has a job to save the data and search information is the data. Second is Administrator system, it has a job to crawl the milis and save the information in milis to DataNode system. Last is Website system, it is a system that interact directly with users through a browser, in it, users can looking for information.

The result of research and testing that has been done, it can be concluded that the system can facilitate users in searching information.

Keywords : MapReduce, Distributed Programming, Parallel Programming, Linux, Milis, Search System.