

## ABSTRACT

Hadoop is a system that can serve the data storage and service of processing data in the system. Increased data requirements will affect the diversity of job characteristics that can be done by the system. So we need a mechanism to do some work on the data service provider system. Hadoop job scheduler can use to handling the problem of the diversity of the job.

Type of job scheduler in Hadoop has advantages and disadvantages in belonging to their respective characteristics. In this final project will use FIFO and Fair Scheduler scheduling as scheduling that will be used to perform a variety of job characteristics that run on Hadoop server. Based on analysis of existing scenarios indicate differences in job characteristics will affect fail job rate, job throughput, and average completion time of the job scheduler used. FIFO is used both on the characteristics of the job that has the kind of job and have a uniform resource data. While both the Fair Scheduler job characteristics that have a variety of job types and have a lot of data resource.

**Key Word** : *job characteristic, job scheduler, hadoop, FIFO, fair scheduler.*