

Abstract

Hadoop is a software framework based on Java and open-source that serves to process large data terdistribusi and running on the cluster that rested on several computers combined. Hadoop architecture consists of two basic layers, namely layer and layer MapReduce Hadoop Distributed File System (HDFS). Map Reduce is a key service component that functions to perform processes in parallel computing and Big Data distributed and (HDFS) serves to provide very high bandwidth in aggregation to all clusters (nodes).

In MapReduce there are job scheduler that serves to map the incoming job queue. Job scheduler default of FIFO and Hadoop Hadoop is a job scheduler to allow replacement of default with a custom job scheduler. Capacity Scheduling is a job scheduler on Hadoop which characterized provide capacity guarantee to incoming queues in the queue that has been provided so that it can repress the value Fail Rate. But because the resource should be divided into several sections, the performance of Response Time and Job Throughput decreased. In the FIFO algorithm maximum value Job Fail rate is 10%, whereas in Job Fail Rate Capacity Scheduling maximum value is 4.3%

Key words: *Hadoop, data, multi-user, Capacity Scheduling, FIFO*