Abstract

To run a job that has a diversity of characteristics on Hadoop needed a job scheduling algorithm. Job scheduling algorithms on Hadoop is a way to manage any job that will run on Hadoop system to manage all the jobs that exist to get a turn executed on every resource available. Fair Scheduler is a job scheduler that uses a method to determine a job get the same resources with another job. As for Hybrid Dynamic Priority Scheduler using the priority method, whereby short job will be prioritized first to be executed rather than a long job. Both scheduler above has a characteristic speed up response time. But to calculate the required performasi other parameter such as fail rate and throughput and job combinations tested, so that the resulting performance more detailed scheduler. Hybrid Dynamic Priority Scheduler excels in time efficiency for minimizing response time of about 9,48% and maximizing job throughput of about 13.25% Then for Fair Scheduler to minimizing job fail rate is about 30,18%.

Keywords : *hadoop, fair scheduler, hybrid dynamic priority scheduler, job scheduling*