Abstract

Production scheduling is the production handling activity that involved a lot of informations and the function as controller device of production activity. Scheduled productions usually need waiting time, because it is located in a production's queue. Each production's waiting time is different, appropriate with production's order in queue. Because of that optimalization of waiting time to make it short is really needed, so delay in production can be minimize. One of the methods to optimalize the waiting time to make it short is with make production-scheduling system using Shortest Job First (SJF) algorithm.

Shortest Job First algorithm is one of the scheduling algorthm which the proces should be done firstly is the proces with shortest time. It make each proces in queuing need only a short waiting time. In this final task, Shortest Job First (SJF) algorithm concept is implemented and analyzed with used production scheduling in PT. Asian Isuzu Casting Center.

The test resulted in three major conclusions. First, with used SJF algorithm, the waiting time in PT. Asian Isuzu Casting Center's production scheduling can be optimalized, so waiting time can be shorter then scheduling before. Second, the production utility can be increase; with decrease production's waiting time. Third, the mean production's waiting time is bigger, if the product using the machine with not smooth.

Key words : Production Scheduling, Shortest Job First , Waiting time