

ABSTRACT

CV Citra Sriwijaya Advertising is a company that produces promotional tools that are job shop. Methods of production scheduling applied is the First Come First Serve (FCFS). FCFS method is a scheduling method that prioritizing the order that arrived first. This cause the time of completion all process to be long or the makespan value is high. Therefore, in this study are given scheduling solution using Branch and Bound algorithm.

Branch and Bound algorithm is a scheduling method that aims to minimize makespan. Branching in this study produces a sequence of scheduling 1-21-15-34-2-22-16-35-17-18-19-36-37-38-23-24-25-3-4-5-27-6-28-7-29-8-30-9-10-11-12-31-26-20-32-33-13-39-14. Based on these results, Branch and Bound algorithm successfully minimizes the makespan value by 18874.30 seconds or 11,67% of FCFS method.

Keyword : Production scheduling, Branch and Bound Algorithm, Makespan