

ABSTRACT

Job Scheduling is one important factor in production activity, especially for companies MTO (Make to Order). With proper scheduling, the problem of large *makespan* can be avoided. Therefore, this research will create a scheduling using *fuzzy logic* method that can reduce delays and reduce the *makespan*.

This was made because of scheduling delays still occur in PT. Indonesian Aerospace. So does the *makespan*, the *makespan* still large. There are things that become important factors that will be the input variables in job scheduling with *fuzzy logic*. Those things are processing time, *completion time* and starting time. In a scheduled job that uses *fuzzy logic* method, the input variables that must be considered is the determination of rules that will provide a weight outputan for each job so the job which has a weight "most important" will be scheduled. This will be repeated until the last job scheduled.

From the results of that research, we concluded that job scheduling using *fuzzy logic* method has been successfully created and can reduce delays and *makespan*. From the results of the comparison between the existing *makespan* scheduling proposal, apparently *makespan* can be decreased by 20,47%. While for the completion time is faster than the existing completion time up to 28%.

Keywords: Scheduling, *Fuzzy logic*