ABSTRACT

A fast-growing company, Garsel Shoes gets many product orders, yet the orders can not be completed because of some limitations. In January 2010, the company got 1128 product orders, but only 1067 orders could be fulfilled. This final research helps the company to increase the number of fulfilled orders by reducing their makespan. In this research, CDS and Palmer were used to overcome Garsel Shoes problem. Makespan results from both methods were compared, and then the method with the lowest makespan value would be choosen. Data obtained from observations and data retrieval from the management. By using January 2010 data, as a sample, Palmer was chosen as the suitable scheduling method with 2186,44 hours in processing time compared with 2272.92 hours in the existing method . The total production increased 73.13% from the existing method). Beside proposed scheduling method, this research devise Information Systems that have advantages compared with the previous system, which is capable of performing CDS and Palmer calculations quickly, precisely, easily. However, even with improved scheduling, orders can not be fulfilled entirely. Therefore, company are advised to add one employee so that all orders can be fulfilled entirely.

Keyword: Schedulling, makespan, CDS, Palmer