

OT: Industrial Process modeling

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To: Fedora List <fedora-list@redhat.com>

I'm looking for an application, hopefully under Linux, to model an industrial process. If I knew what something like this was called, I could Google for it, but I know of no name for it.

Extremely trivial example:

Drill Press time 5 minutes – consumes D kwh of electricity. Leads to:
CNC machine time 60 minutes – consumes C kwh of electricity. Leads to:
Annealing oven time 30 minutes – Consumes A kwh of electricity.

I'd like to feed the app resources, characteristics of those resources, and then plug in production figures over a time period and have it tell me how many Drill Presses, etc I need to get that production, how much energy is consumed to add to cost of goods, etc.

Largely this is a complex scheduling problem. The app should also highlight resource shortages to say that certain things are impossible due to not enough whatever, and lay out a time line for when things need to happen.

Any one know what this might be called, and where I might find such an app?

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