

Validating the TCF line to produce target throughput



Key Points

- Multimodel Assembly line
- Subassembly line breakdown effect on mainline
- Throughput improvement roadmap
- All types of carriers/hangers (10 types) optimized; outcome used for purchasing decision

Client's Challenge

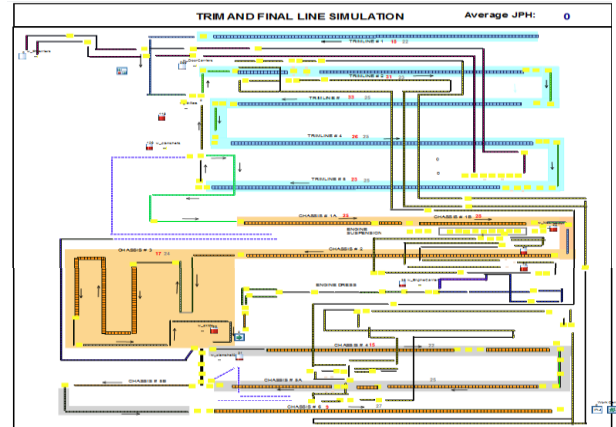
- Effect of introduction of new models
- Amount of blockage in the system due to downtimes
- Optimum number of carriers
- Buffer/ Decoupler capacity

PMI's Approach

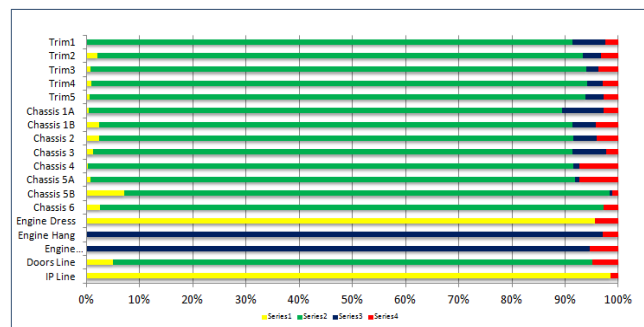
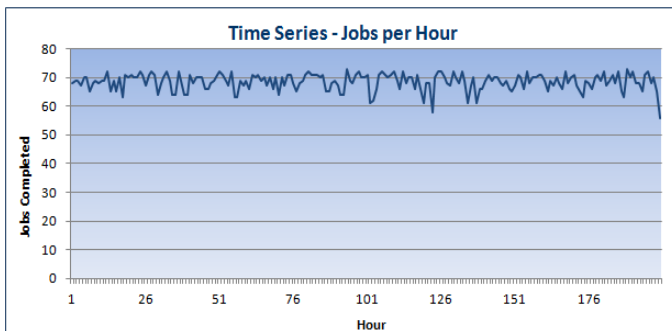
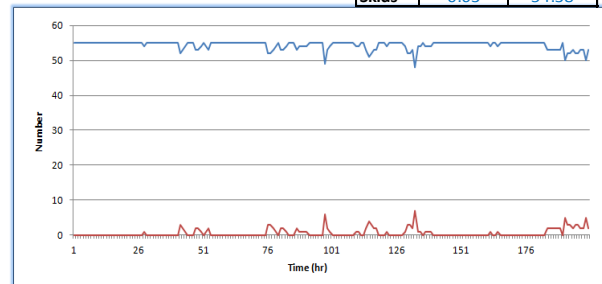
- Analysis of Data, building the model and verification
- Analysis of baseline model results
- Buffer Sensitivity Analysis for some parts of Chassis
- Carrier optimization for every subassembly
- What-ifs to reach standard uptime

Findings & Recommendations

- Model was found to fall short of achieving target
- Number of extra fuel fill equipments determined to reach desired uptime at Flattop
- De-couplers before and after Chassis line 6 identified as the bottleneck
- What-ifs conducted to find options to meet targets



| Skids | Average | |
|-------|---------|--------|
| | Empty | Loaded |
| | 0.63 | 54.38 |



*Data shown here has been modified to protect client confidentiality