Case Studies

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Constraint Based Production Scheduling

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Acknowledgments

Key Points

- We provide a number of scheduling case studies
- Use the methodology developed to describe problems
- Use scheduling tool to provide solutions
- Generic tool provides good, but not always best solutions
- Two case studies are not handled by scheduling tool (yet)

Case Studies Overview

- Production Planning and Detailed Scheduling
  - How to use detailed scheduling in a wider context
- Assembly Line Balancing
  - Scheduling to plan design of an assembly line
- Test Scheduling
  - Scheduling tests on resources
- Factory Design
  - Location of resources affects scheduling outcome
- Oven Scheduling
  - Solving one detailed scheduling problem is not enough
- Blades and Vanes
  - Capacity and production planning over a multi-year period

Summary

- See how the methodology can be applied to solve real-world problems
- Generic tool provides immediate solution of good quality
- Visualization of results is also provided
- Tool will be available in a few weeks time