## Real-Time Prototyping in Ptolemy

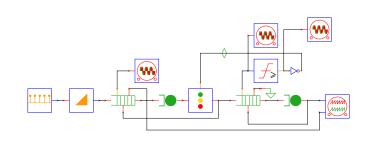
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## System Simulation

- Interpreted blocks compiled into Ptolemy system
- Multiple models of computation process networks, communicating processes, discrete event, RTL



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## **Objectives**

Provide a framework to:

- Specify systems using natural models of computation
- Use hardware within a simulation
- Use the user's computing environment
- Construct heterogeneous multiprocessor real-time prototypes
- ★ Shorten the design cycle

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## **Code Synthesis**

- Compile-time scheduling
- SDF & BDF models supported with extensions that allow for nondeterminate communication
- Object-oriented target specification



