Reference

Tools under construction:
- EPC, PIM/SIM, etc.
- Supporting other interaction mechanisms
- Extended to support other interaction mechanisms
- Ensuring models of building blocks created in Prome
- Supporting the message passing paradigm

Status & Future Work

- Saves model construction time during design-time verification
- Supports a wide range of interaction semantics
- Allows easy experimentation with alternative design choices
- Increases the reusability of components when connectors are changed

Plug and Play with Message Passing

- Receives port
- Blocking send port
- Semantics sender
- Receiver
- A selected message passing connector
- Send
- Interprocess communication

Our Approach

- Facilitates design-time verification
- Reuses component models by composing reusable building block models
- Defines a library of reusable building blocks for the construction of components
- Defines a small set of standard interfaces for component interactions
- Supports plug-and-play system design

Problem

- Component interactions are important yet hard to get right
- Many interactions are required in the component
- Semantics of component interactions are intertwined with their configurations
- Components that are architecturally similar may require different interactions
- Large design space of interaction semantics

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University of Massachusetts Amherst
Shangyu Wang, George S. Avrunin, Lori A. Clarke
Verification Support for "Plug-and-Play" Architectural Design