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MATLAB Examples

Design AUTOSAR Components, Simulate, and Gene

Develop AUTOSAR components by implementing behavior algorithms, simulating c

Begin with Simulink Representation of AUTOSAR Components

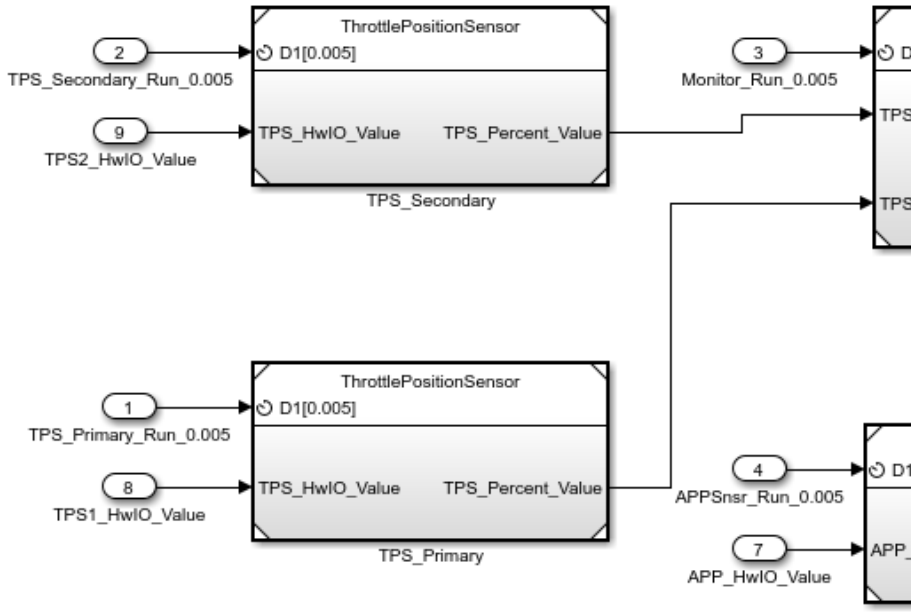
To develop AUTOSAR components in Simulink®, you first create a Simulink repres component creation can start from an `arxml` component description or an existing

- To import an AUTOSAR software component description from `arxml` files Import AUTOSAR Component to Simulink or example Import AUTOSAR C
- To create an initial model representation of an AUTOSAR software compor Simulink.

This example uses a Simulink representation of an AUTOSAR software compositio which models a throttle position control system. The composition contains six interc sensor/actuator components and two application components.

Open the composition model `ThrottlePositionControlComposition.` (Y this example in the installed AUTOSAR support package tree, at `autosarroot/a /ThrottlePositionControlSystem`.)

```
addpath(fullfile(autosarroot,'autosar_examples','ThrottlePosit
open_system('ThrottlePositionControlComposition');
```



SIgnal lines between component models represent AUTOSAR assembly connector and outports represent AUTOSAR delegation connectors.

In a composition model, component models can be rate-based, function-call based, component models. In each component model, atomic subsystems model AUTOSA scheduled on the same basis as exported functions, the component models use the

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Related Examples

Import AUTOSAR Com to Simulink

Create Simulink® represen AUTOSAR composition imp from AUTOSAR authoring t file AUTOSAR Standard Er

Import AUTOSAR Com to Simulink

Create Simulink® represen AUTOSAR component imp

from AUTOSAR authoring tool arxml