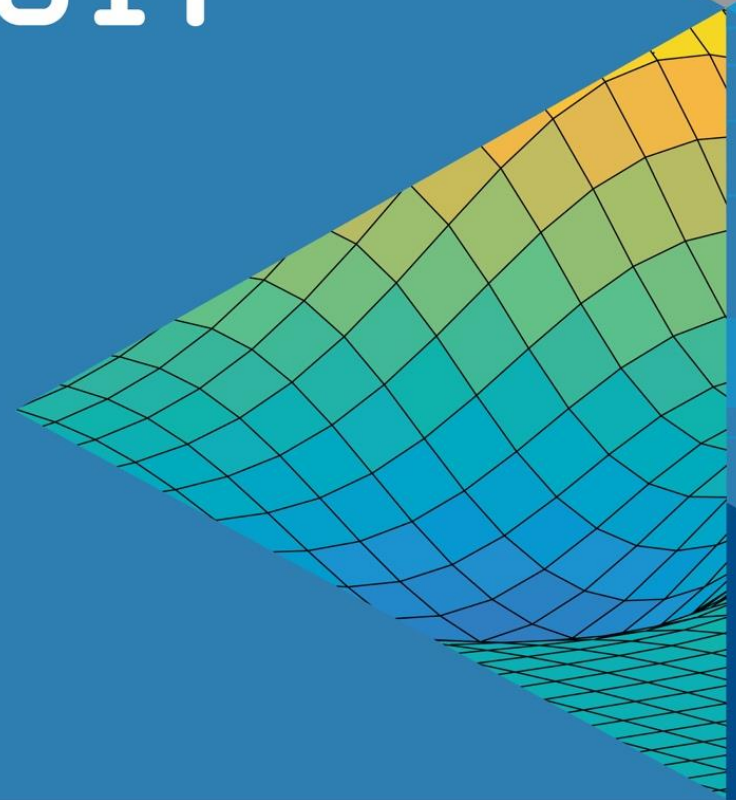
MATLAB EXPO 2017

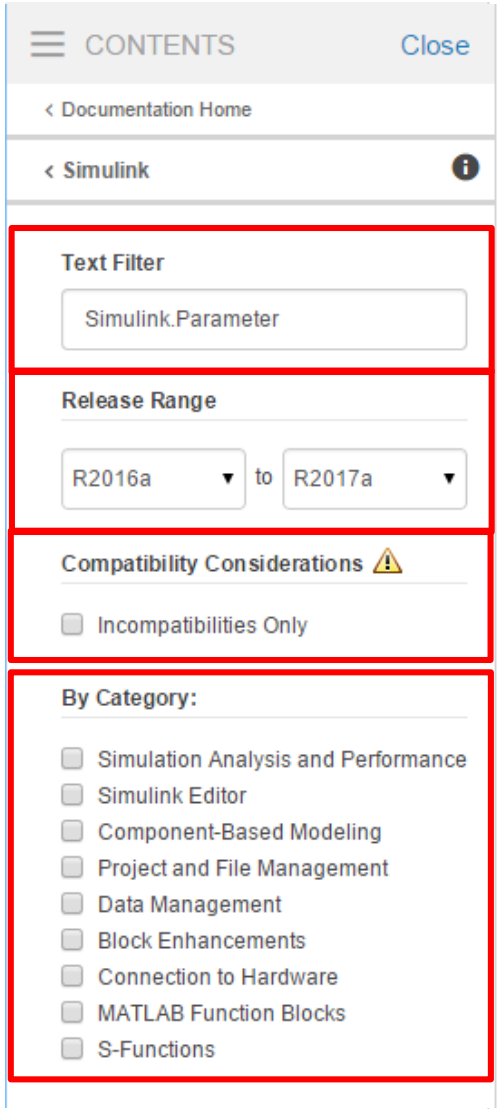
What's New in Simulink R2017a and R2017b

Kate Thorne



Release Notes

R2017a



Simulink Release Notes

Bug Reports | Bug Fixes

expand all in page

YOUR SELECTIONS Simulink.Parameter ×

Found 6 notes | Release Range: R2016a to R2017a

Sort by: Release: Latest to Earliest

- Release: Latest to Earliest
- Release: Earliest to Latest
- Category (default order)
- Category (alphabetical)

R2017a

Data Management

- More accurate comparison of nondouble data to specified minimum and maximum values ⚠
- Deep copy of handle objects by `Simulink.ModelWorkspace.assignin`

R2016b

collapse all

Data Management

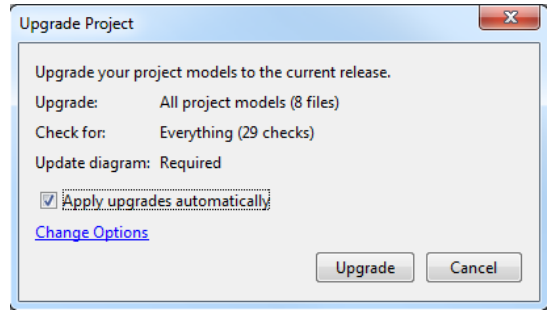
- Improved display of large arrays by Model Explorer and `Simulink.Parameter` property dialog boxes

  Before R2016b, for numeric MATLAB variables and `Simulink.Parameter` objects, the Model Explorer **Value** column displayed large arrays as read-only text, such as `<3x5x3 double>`. The property dialog box for `Simulink.Parameter` objects also used this read-only text.

  In R2016b, the Model Explorer and property dialog boxes display the entire value of large arrays. To modify the elements in the array, you can edit the displayed text.

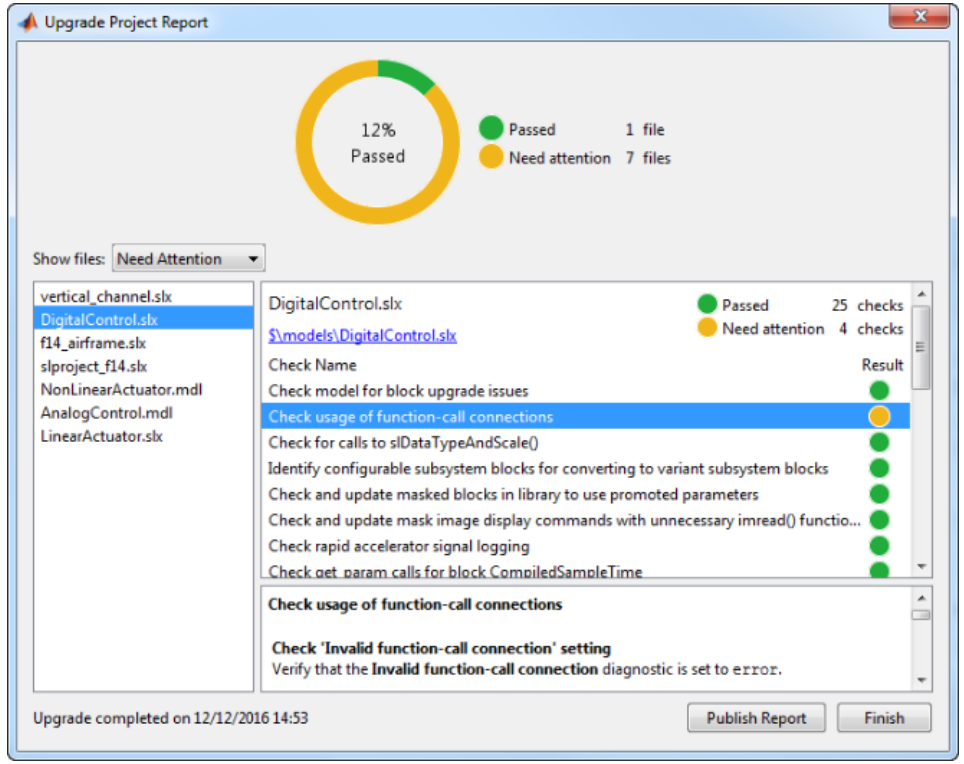
  Arrays with three or more dimensions appear as an expression that contains a call to the `reshape` function. To edit the values in the array, modify the arguments of this `reshape` call.

Simulink Project Upgrade



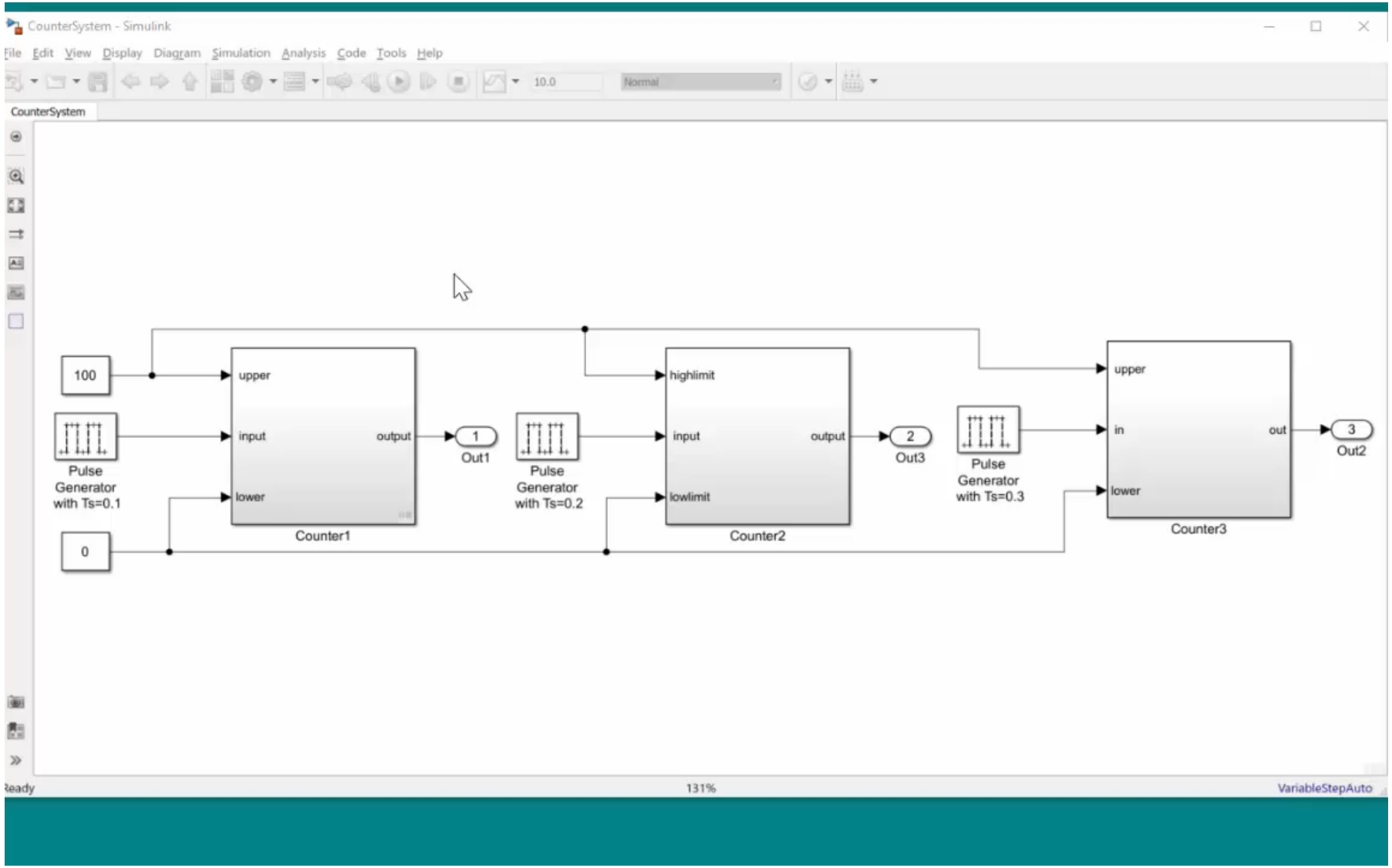
Easily update all the models in your Simulink Project to the latest release

- Avoid the manual process of upgrading one model at a time
- Simulink Project upgrade is an easy to use UI to automate the upgrade process of all the models in a Simulink project
- Fixes are automatically applied and a report gets generated

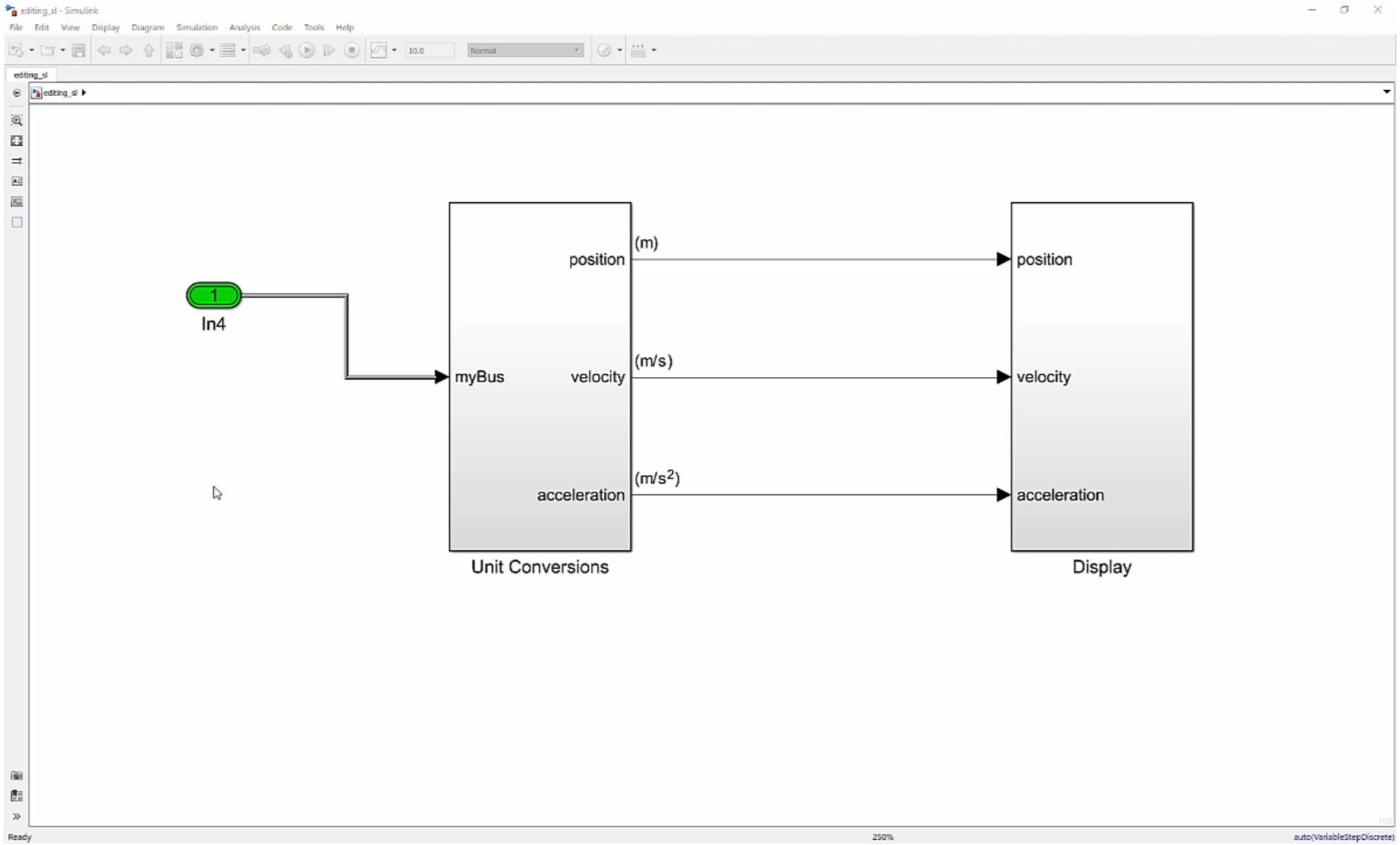


Learn more at this session:
Team-Based Collaboration in Simulink

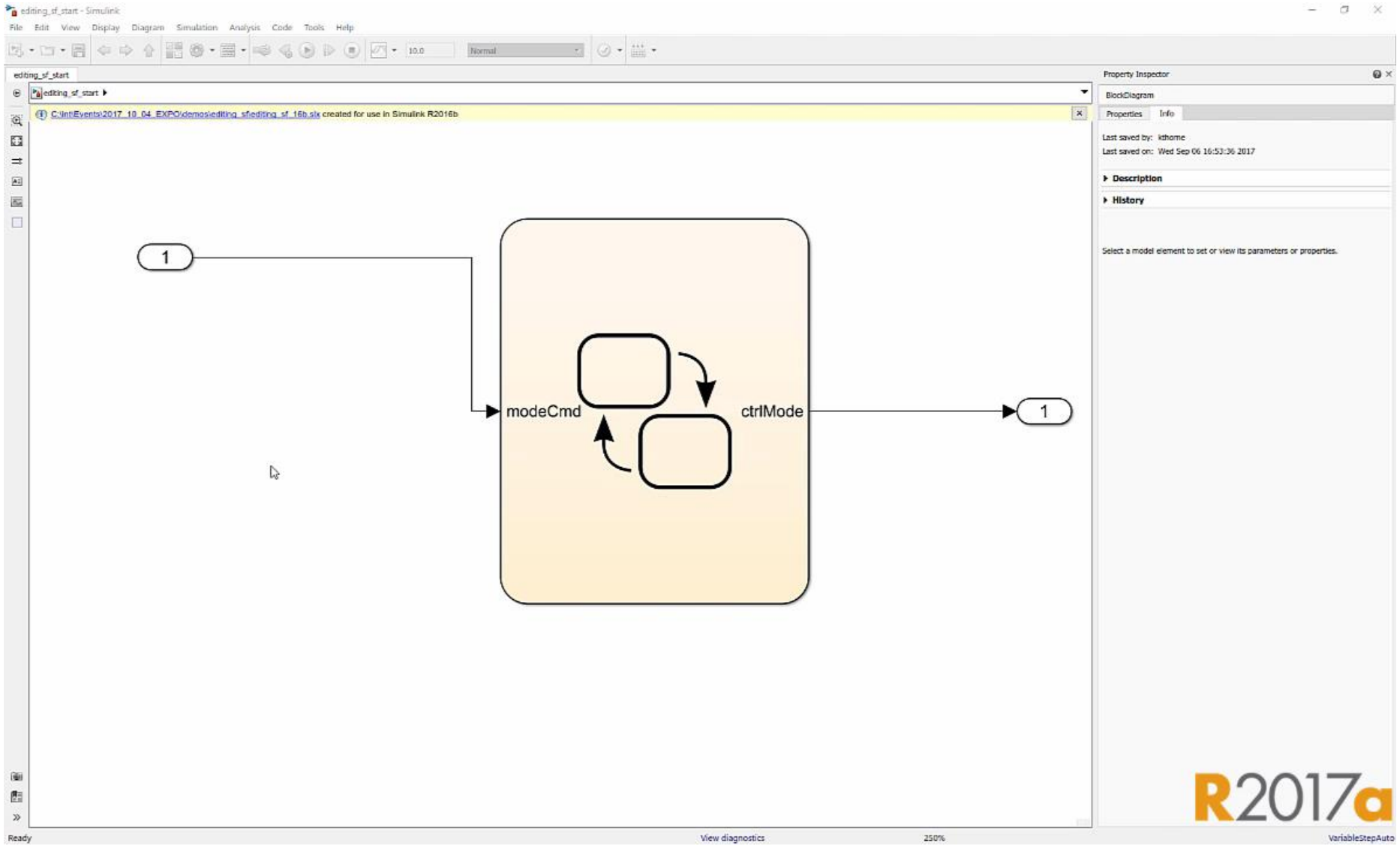
Clone Detection



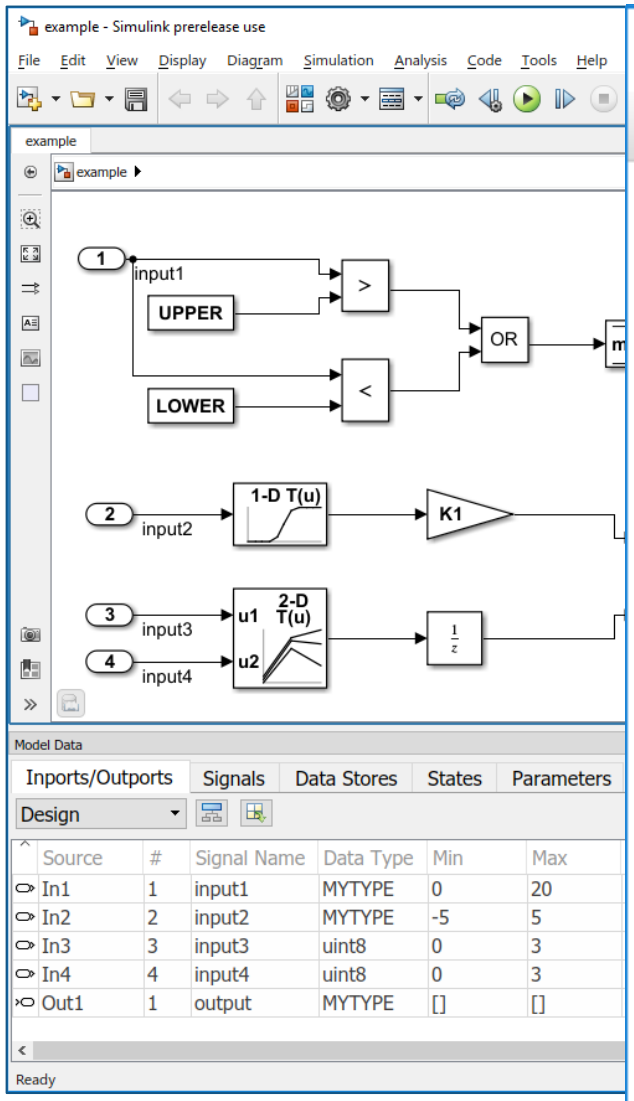
Edit at the Speed of Thought

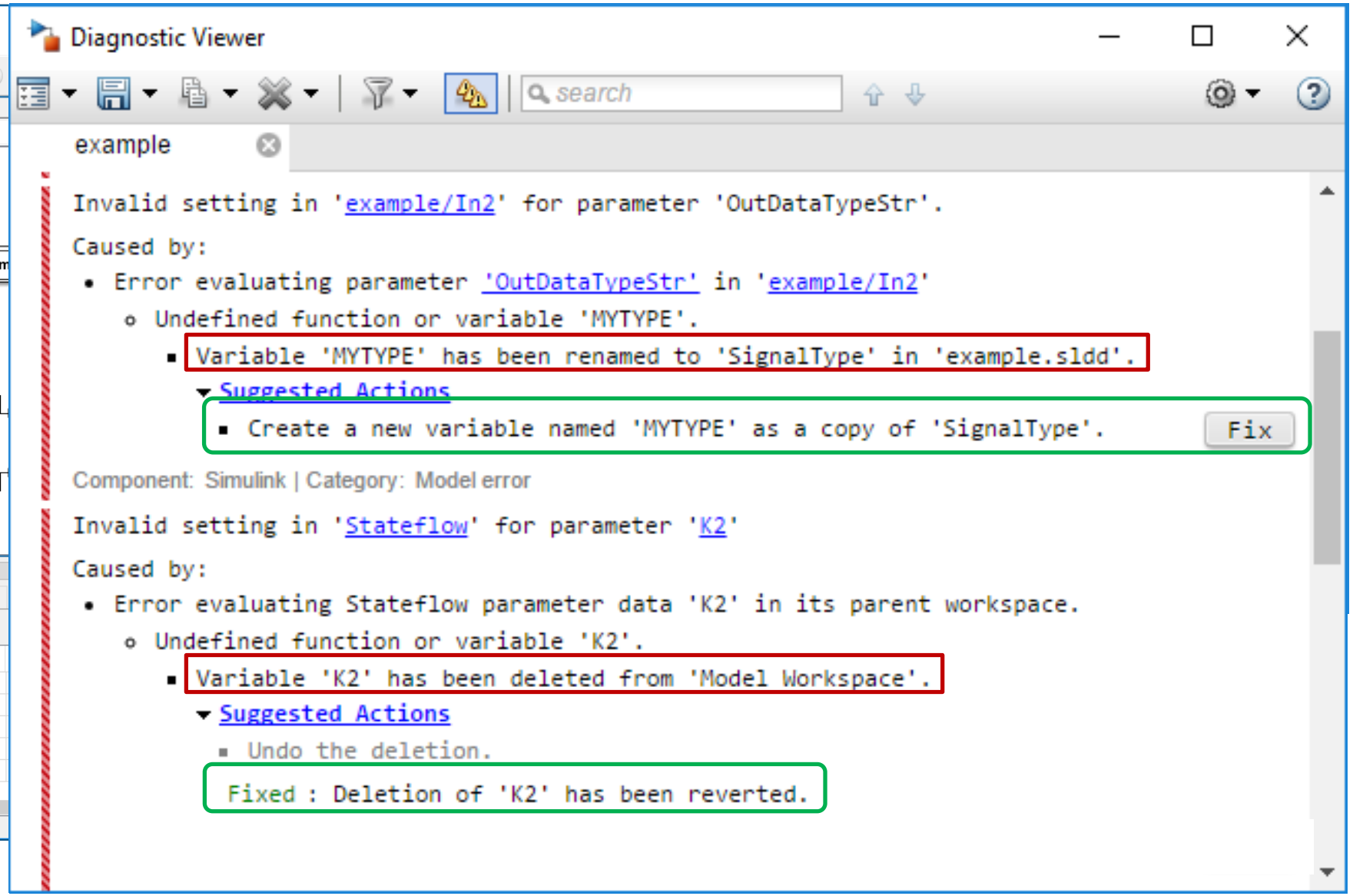


Intuitive Stateflow

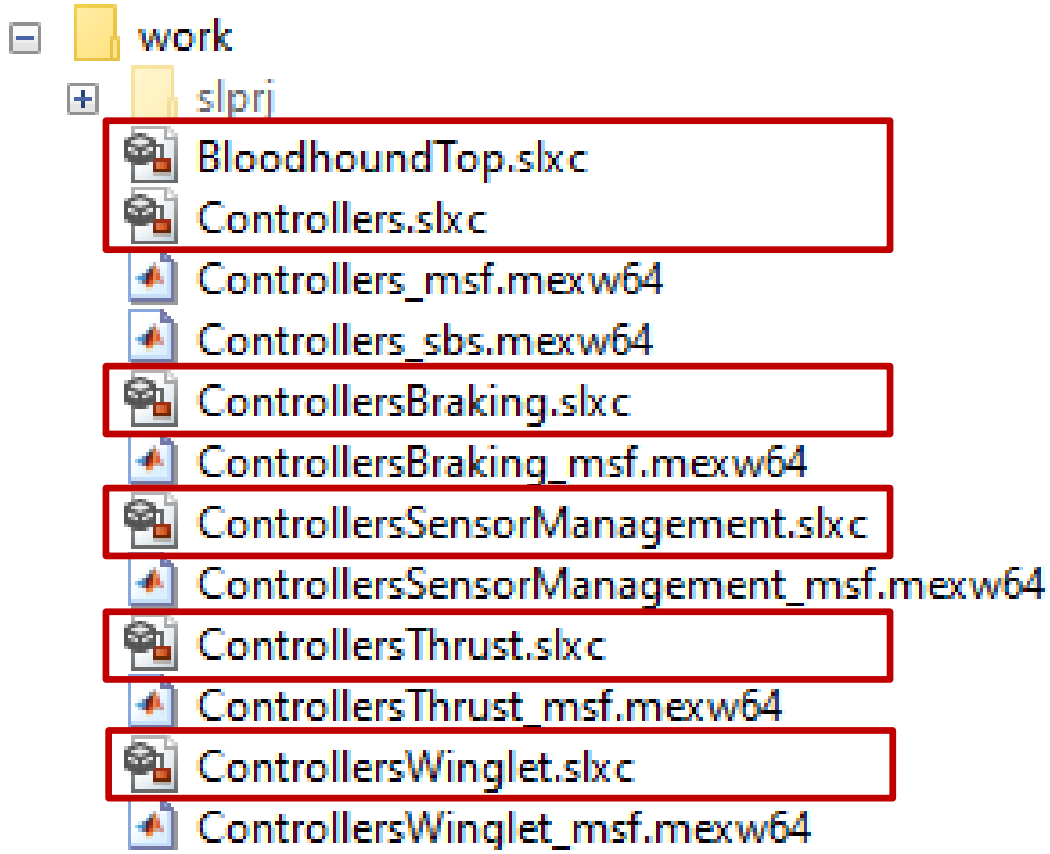


Restore Missing Variables

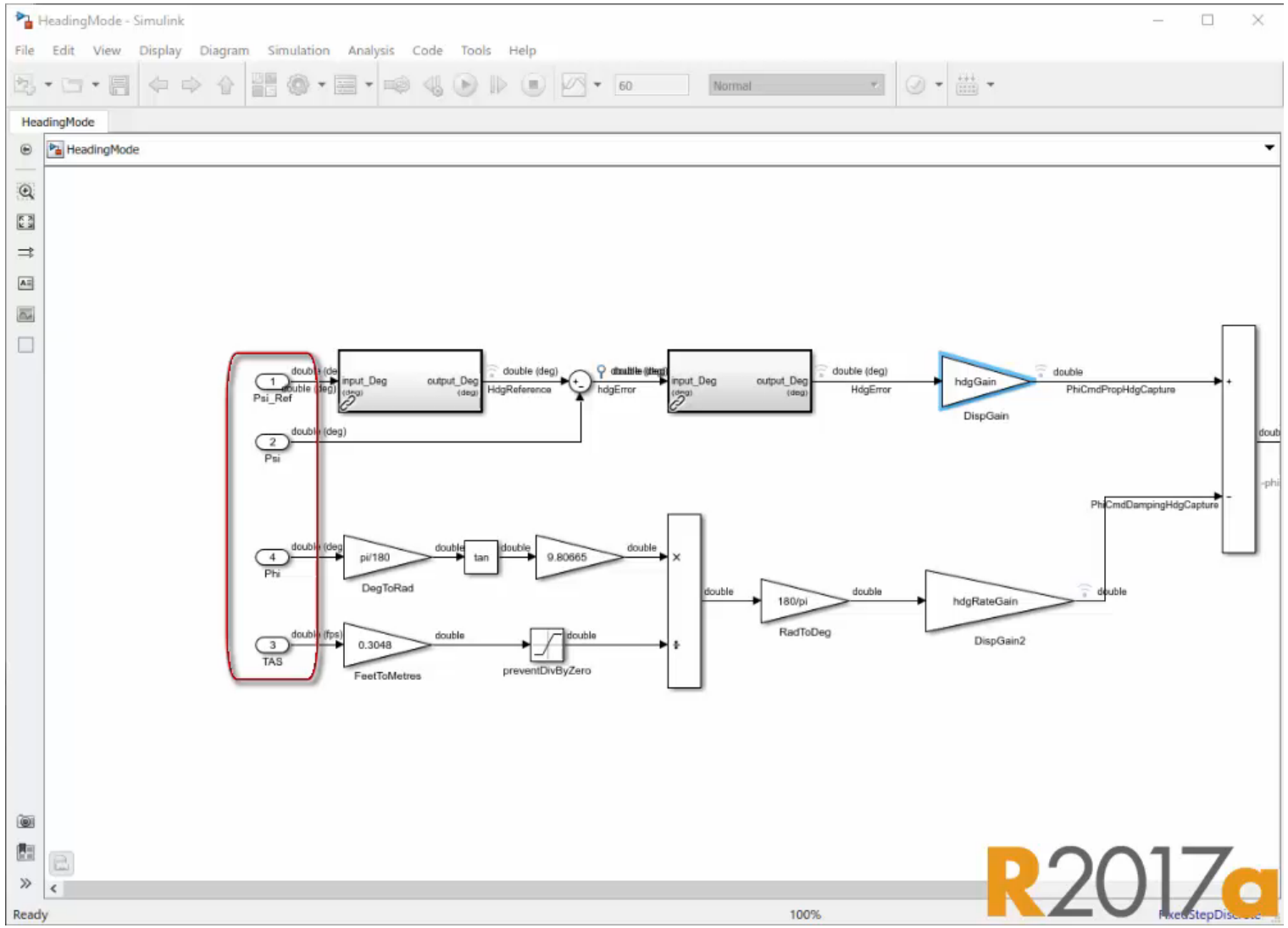




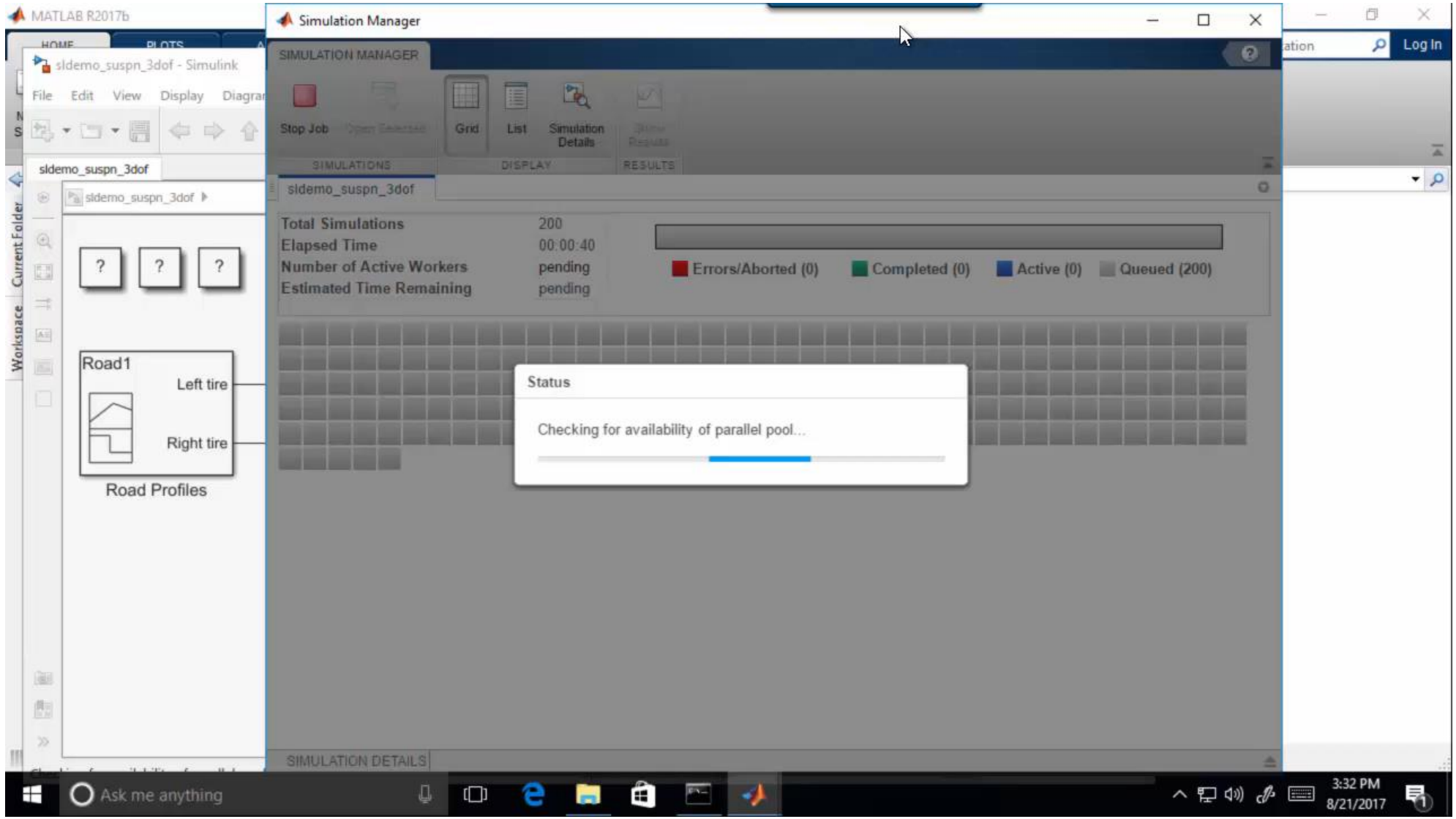
Simulink Cache



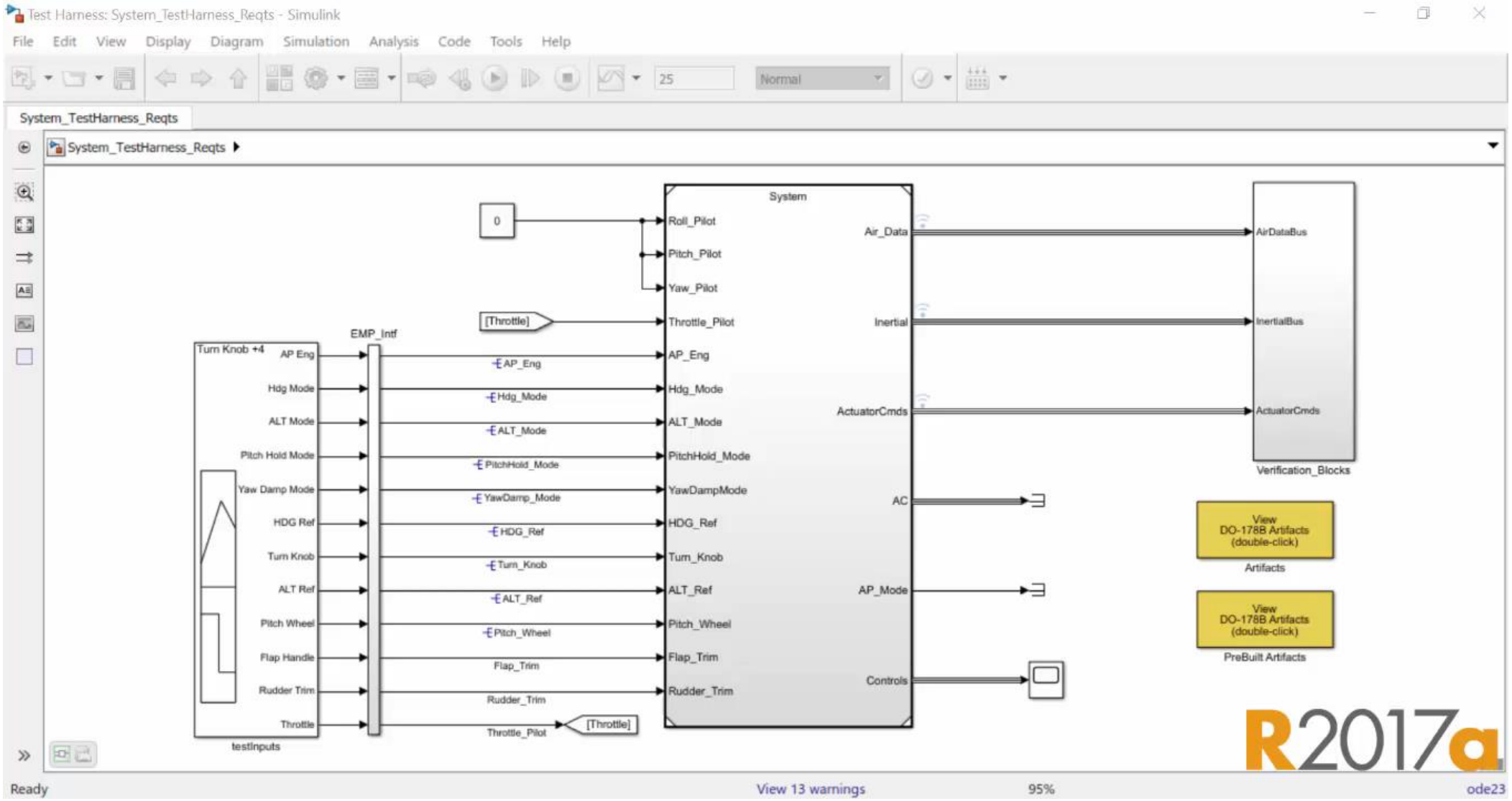
Simulation Input



Monitor Your Parallel Simulations



Simulation Output



New Verification and Validation Products

R2017a and earlier

Simulink Verification and Validation

R2017b

Simulink Requirements

Simulink Coverage

Simulink Check

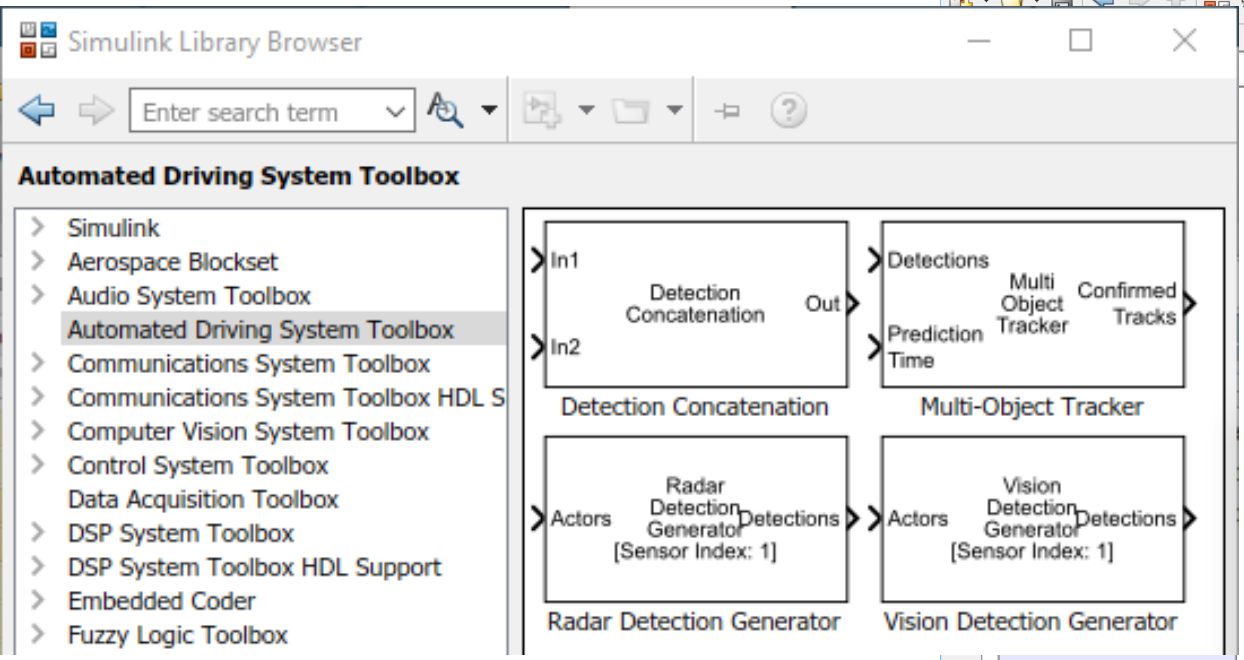
- Simulink Requirements – requirements authoring, editing, trace, management
- Simulink Coverage – model and code coverage analysis
- Simulink Check – static checking, metrics, clone detection

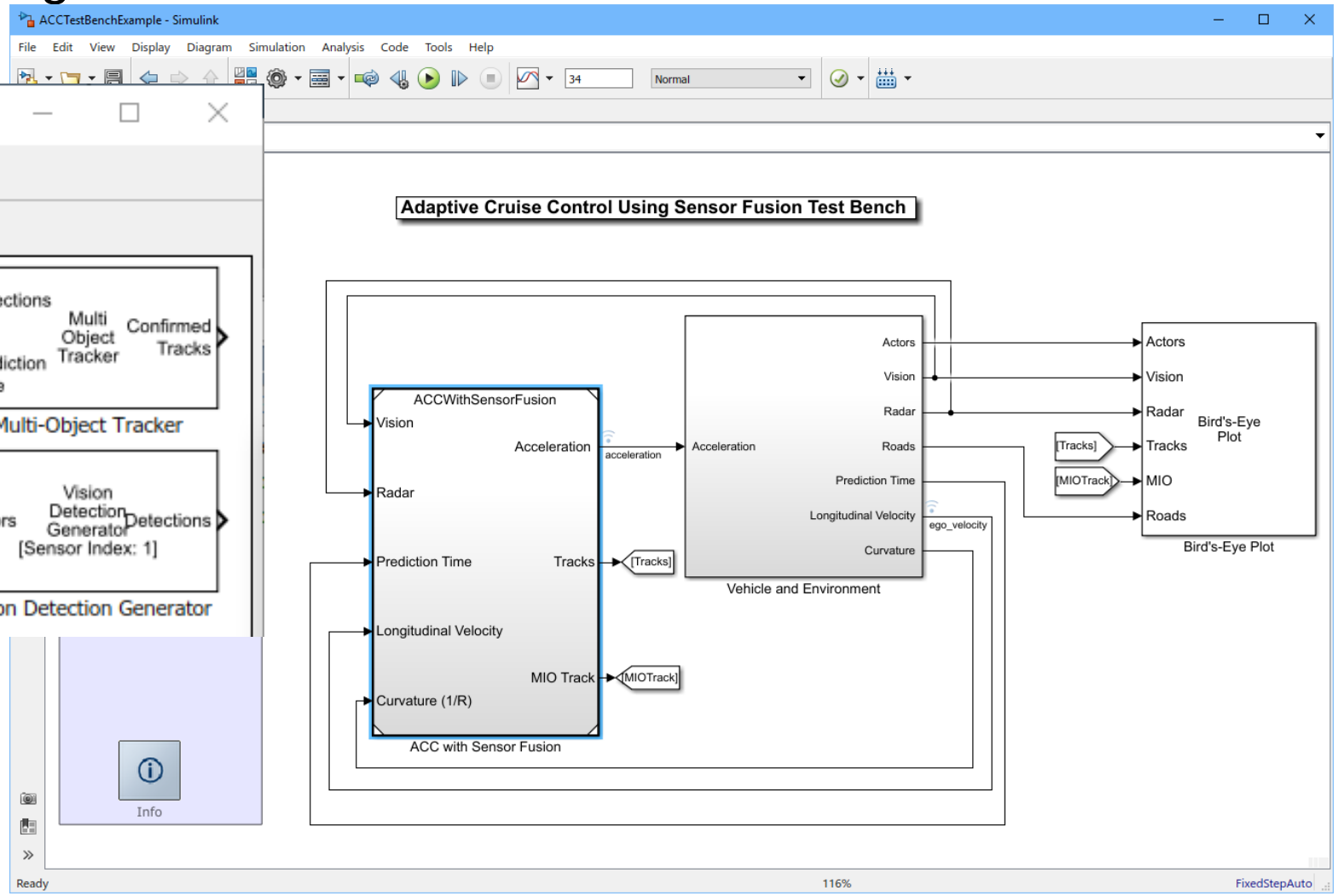
Learn more at this demo station:
Model Verification and Validation in Simulink

Automated Driving System Toolbox: Simulink Support

R2017b

- Simulink support for tracking and sensor fusion
  - Closed-loop ACC example





Learn more at this demo station:
New for 2017: Automated Driving System Toolbox and Powertrain Blockset

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Thank You