

# Reactis V2011

Released June 23, 2011



# New Simulink Support

- ▶ MATLAB R2011a
- ▶ Function-Call Split block
- ▶ Rate Limiter block
- ▶ Enumerated types in S-Functions and Legacy Code blocks

# New Tester Launch Dialog

How long to run? →

- ▶ time
- ▶ steps
- ▶ random/targeted steps

Reactis Tester: cruise.slx

Preload Files:   Prune  Use Virtual Sources

Run for:   hours  minutes  
 30000 steps  
 5 tests in random phase  
 steps per random test  prune tests  
 steps in targeted phase

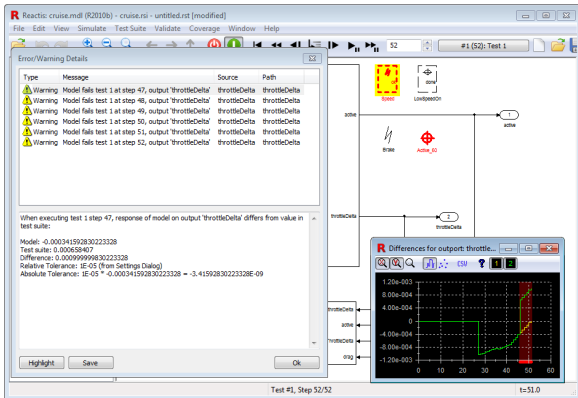
Coverage Objectives:

<input checked="" type="checkbox"/> Conditional Subsystems	<input checked="" type="checkbox"/> Decisions
<input checked="" type="checkbox"/> Branches	<input checked="" type="checkbox"/> Conditions
<input checked="" type="checkbox"/> Lookup Targets	<input checked="" type="checkbox"/> MC/DC
<input checked="" type="checkbox"/> States	<input checked="" type="checkbox"/> MCC
<input checked="" type="checkbox"/> Condition Actions	<input checked="" type="checkbox"/> Boundaries
<input checked="" type="checkbox"/> Transition Actions	<input checked="" type="checkbox"/> User-Defined Targets
<input checked="" type="checkbox"/> CSEPT	<input checked="" type="checkbox"/> Assertion Violations

Additional Parameters:

Output File:

# Separate Tolerance for Each Output



When running tests, Reactis flags output differences between model and test suite.

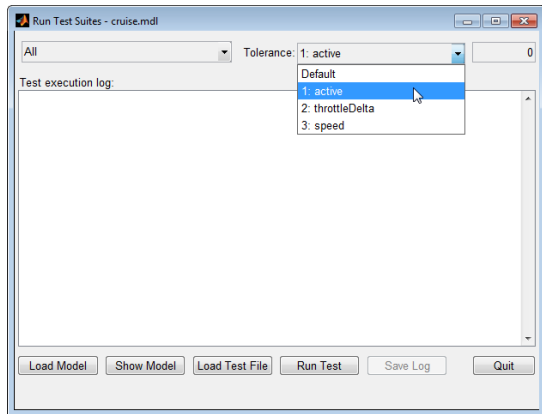
**Tolerance**

**Old:** global

**New:** different

tolerance possible for each output

# Separate Tolerance for Each Output



Tolerances flow through to runtests

# Model Search

The screenshot displays the Reactis software interface for a model named 'cruise.mdl (R2010b) - cruise.rsi'. The main window shows a complex logic diagram with various components and connections. A search dialog box titled 'Search in CruiseMDL' is open, showing the search term 'brake' and options for 'Match whole word only' and 'Match case'. The search results are highlighted in the diagram, showing the 'brake' input and its connections to the 'OR' gate and the 'deactivate' signal.

The interface includes a menu bar (File, Edit, View, Simulate, Test Suite, Validate, Coverage, Window, Help) and a toolbar with navigation and simulation controls. The left sidebar shows a project tree with the following structure:

- cruise
  - SL CruiseMain
    - SL CruiseMDL
      - DeactivateActivate
      - DesiredSpeed
      - Mode
      - SpdCheck
      - ThrottleCtl
    - SL Plant
      - LowSpeedOn
      - Speed
      - Configuration Variables

The logic diagram features several components: inputs (cancel, brake, gas, From, accelResume, decelSet), gates (OR, XOR, AND, NOT), and outputs (deactivate, activate, activate1, onOff, set, mode). A search dialog box is overlaid on the diagram, displaying the search term 'brake' and options for 'Match whole word only' and 'Match case'. The search results are highlighted in the diagram, showing the 'brake' input and its connections to the 'OR' gate and the 'deactivate' signal.

# Copy System Path

The image shows a software interface for Reacis, displaying a system diagram and a Notepad++ window. The Reacis window, titled "Reacis: cruise.mdl (R2010b) - cruise.rsi", features a menu bar with "File", "Edit", "View", "Simulate", "Test Suite", "Validate", "Coverage", "Window", and "Help". A toolbar contains icons for file operations and simulation control. The main area shows a system diagram with components like "cancel", "OR", "deactivate", "NOT", "activate", and "mode". A context menu is open over the "From" component, listing options: "Toggle Breakpoint", "Add Watched Variables...", "Open Scopes...", "Open Distribution Scopes...", and "Copy System Path". The Notepad++ window, titled "\*new 2 - Notepad++", has a menu bar with "File", "Edit", "Search", "View", "Encoding", "Language", "Settings", "Macro", "Run", "Plugins", "Window", "?", and "X". The text "cruise/CruiseMain/CruiseMDI" is selected in the editor, and a context menu is open over it, listing options: "Cut", "Copy", "Paste", "Delete", "Select All", and "Style token".

# Other Items

- ▶ Extract subsystem option to not extract trigger mechanism when extracting
- ▶ Improved model initialization performance subsystem