

# 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

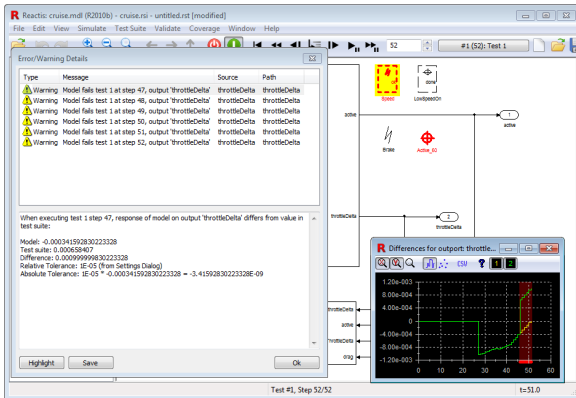
Coverage Objectives:

|  |  |
|--|--|
| <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.

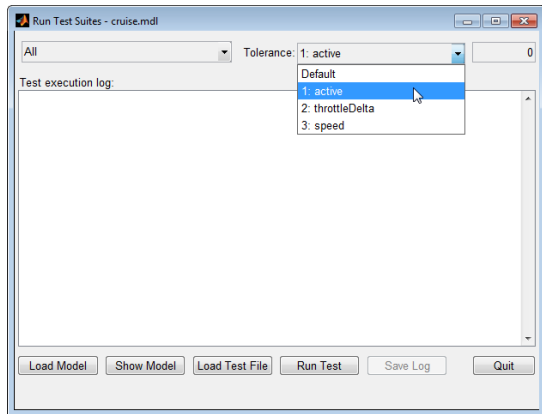
**Tolerance**

**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 file named "cruise.mdl (R2010b) - cruise.rsi". The interface includes a menu bar (File, Edit, View, Simulate, Test Suite, Validate, Coverage, Window, Help) and a toolbar with various navigation and simulation controls. On the left, a project tree shows the hierarchy: "cruise" > "SL CruiseMain" > "SL CruiseMDL" > "DeactivateActivate", "DesiredSpeed", "Mode", "SpdCheck", "ThrottleCtl", "Plant", "LowSpeedOn", "Speed", and "Configuration Variables".

The main workspace shows a logic diagram with several components: "cancel", "brake", "gas", "[A] From", "accelResume", "decelSet", "activate", "activate1", "onOff", "set", "Mode", "activate", "notd", and "AND". A search dialog box titled "Search in CruiseMDL" is open, showing the search term "brake". The dialog includes options for "Match whole word only" (unchecked), "Match case" (unchecked), and "Direction" (radio buttons for "Up" and "Down", with "Down" selected). The "Find Next" button is highlighted in blue. The "brake" component in the diagram is highlighted with a yellow box.

# Copy System Path

The image shows a screenshot of the Reacis software interface. The main window, titled "Reacis: cruise.mdl (R2010b) - cruise.rsi", displays a system diagram with various components and connections. A context menu is open over the "CruiseMDI" component, with the "Copy System Path" option selected. The menu items include: Toggle Breakpoint, Add Watched Variables..., Open Scopes..., Open Distribution Scopes..., and Copy System Path. The system diagram includes components like "cancel", "OR", "deactivate", "NOT", "activate", "mode", "From", "cancelResume", and "decelSet".

In the foreground, a Notepad++ window titled "new 2 - Notepad++" is open, showing the text "cruise/CruiseMain/CruiseMDI" on the first line. A context menu is open over the text, with the "Paste" option selected. The status bar at the bottom of the Notepad++ window indicates "length: 27 |ir Ln: 1 Col: 28 Sel: 0".

# Other Items

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