Reactis V2017

Released July 7, 2017





Newly Supported Simulink Features

- MATLAB R2017a.
- Variant Source and Variant Sink blocks.
- Lookup and Prelookup blocks in which the input data type is different from the breakpoint data type.
- Outputting Stateflow leaf-state and child-state activity to Simulink.



API Improvements

- Functions to add/modify/remove test points.
- Include/exclude plots in test execution reports.



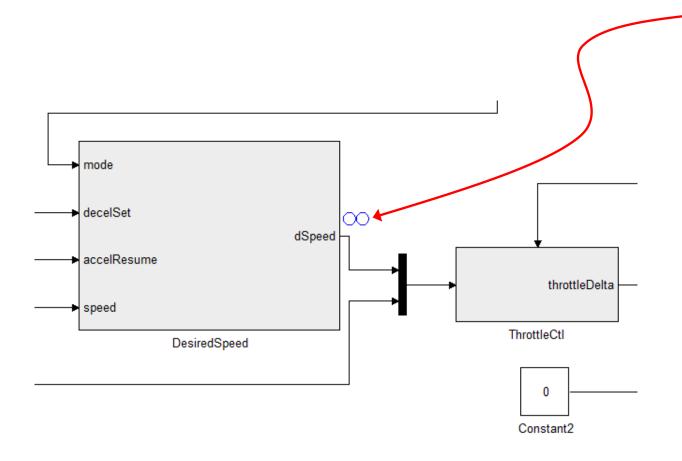
Reactis for EML Plugin

Support:

- struct function
- •empty otherwise branch in switch statement



Enhanced Test Points



Previously, test point

- stored internal signal value in test suite
- compared computed value for signal against test suite value

V2017

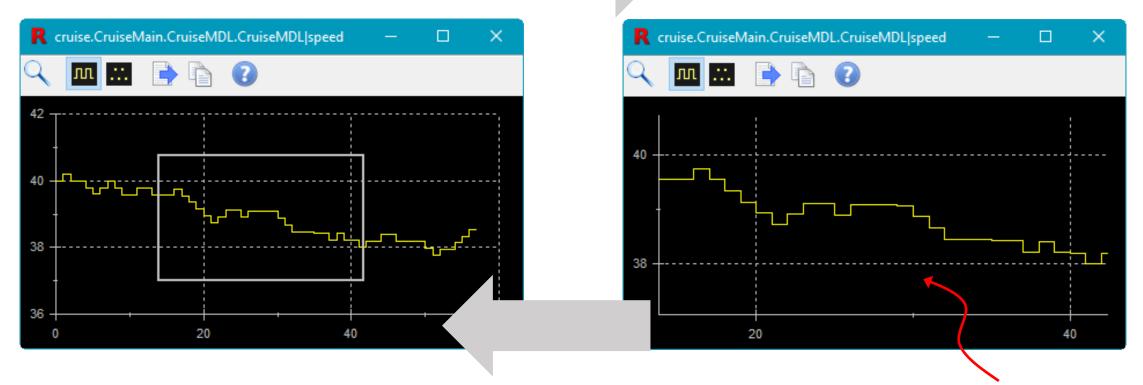
- assign constraint to test point
- raise error, warning, or assertion violation if value outside constraint is observed



Enhanced Scopes – Easier Zooming

Drag with mouse to select zoom region

Scope zoomed to selected region



Right-click to undo zoom

CTRL drag to scroll



Enhanced Scopes – Exporting Plot

Export plot to PNG

Copy plot to clipboard





Reactis Test Execution Report

Mon Jul 03 13:29:30 2017

Model File: C:\Users\sims\tmp\cruise\cruise.slx (1.119)

RSI File: C:\Users\sims\tmp\cruise\cruise.rsi

Test Suite: C:\Users\sims\tmp\cruise\ts2.rst

Reactis Version: V2016.3

Model version now included

Summary

Number	Test Name	Steps	Errors	Warnings	Differences
1	Test 1	1	0	0	0
2	Test 2	58	0	0	0
3	Test 3	11	0	0	0
4	Test 4	31	0	0	0
5	Test 5	26	<u>1</u>	0	0



Tolerance now included for each output and test point

Tolerances for Comparing Computed Values and Test Values

Outputs

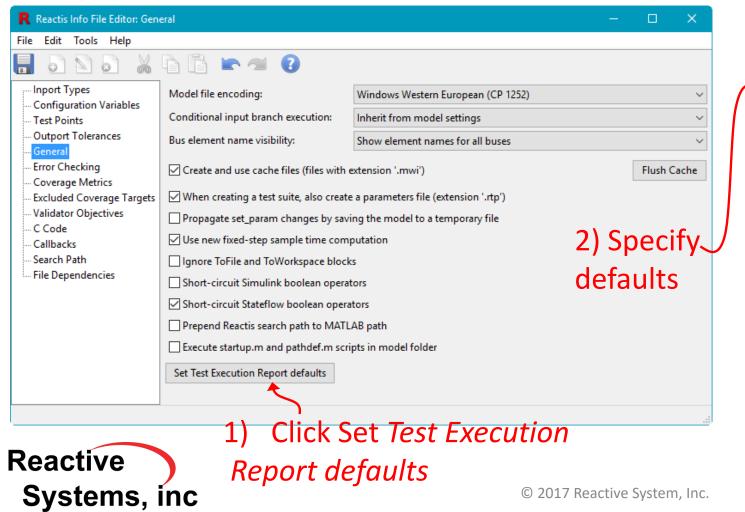
Output	Method	Relative	Absolute
active	relative	1e-005	
speed	relative	1e-005	
throttleDelta	min	1e-005	1e-005

Test Points

Test Point	Method	Relative	Absolute
$*. Cruise Main. Cruise MDL. Cruise MDL. Desired Speed \mid @dSpeed$	relative	1e-005	
*.CruiseMain.CruiseMDL.CruiseMDL @speed	relative	1e-005	



Set default report parameters



R Default Reactis Test Execution Report Options		_		×
Default Report Options	Coverage Metrics			
✓ Include export date ✓ Include file paths	Metric	Summary & Details	Summary Only	None
☑ Include coverage report	Subsystem	•	0	0
✓ Include model hierarchy	Branch	•	0	0
✓ Include input plots	Lookup Table	•	0	0
☐ Include test point plots	State	•	0	0
All test points	Condition Action	•	0	0
Only test points with differences	Transition Action	•	0	0
✓ Include output plots	CSEPT	•	0	0
All outputs	Decision	•	0	0 0 0
Only outputs with differences	Condition	•	0	0
	MC/DC	•	0	0
Output Format	MCC	•	0	0
● HTML	Boundary Value	•	0	0
O RRX (XML)	User-Defined Target		0	0
✓ Preview before saving	Assertion Violation	•	0	0
Limits		All	All	All
Difference limit: 1000				
Output				
 Include all tests in one file 				
File name:				
Create a separate file for each test				
Base file name:				
Folder:				
		Ok	Car	ncel

Include plots for inputs, outputs, test points in report

