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- •Generated test suites achieve same level of coverage with fewer tests and overall steps.
- For some models, test suite size reduced by 90%.



Conditional Input Constraints

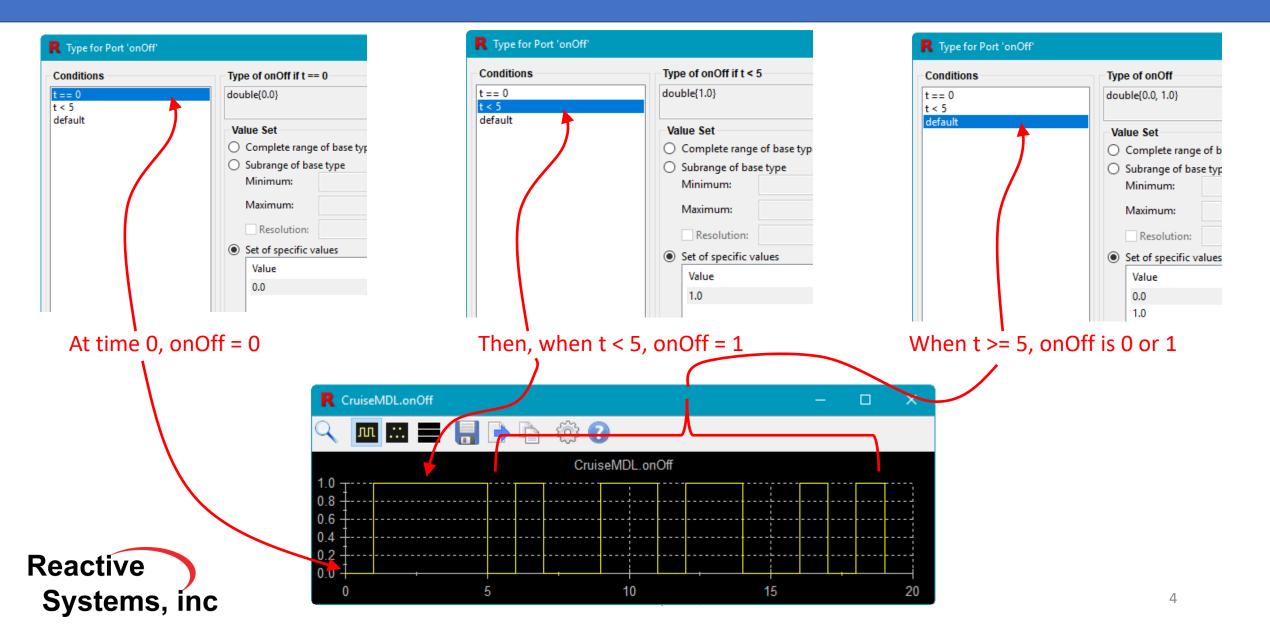
Top-level input constraints that depend on the simulation time (t):

- set an initial value for an input, or
- hold an input constant for some number of steps and then let it vary.

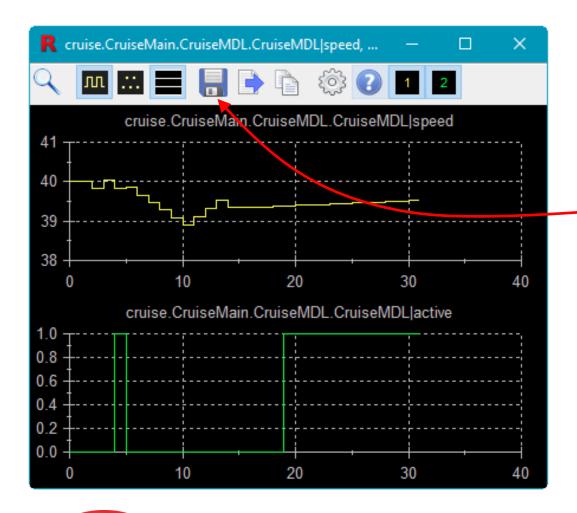
R Type for Port 'onOff'	\mathbf{x}
Conditions t == 0 t < 5 default	Type of onOff if t == 0 double{0.0} Value Set O Complete range of base type O Subrange of base type Minimum:
Condition: t == 0	Maximum: Resolution: Set of specific values Value Ualue Ualu
	Add Ec used when Delta No limitation Limits: Minimum:
Add Edit Remove 1	Maximum: Ok Cancel Apply



Conditional Input Constraints



Scope Enhancements



- Each signal in scope can have own y-axis.
 - Scope can be saved to a
 Signal Group to store
 collection of signals along
 with settings for displaying
 them.

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Newly Supported Simulink Features

- MATLAB R2017b.
- Permute Dimensions block.



Test Execution Report

List targets covered by each step in a test.

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Test 8

46 steps, 0 warnings, 0 errors, 0 differences

Targets Covered by Test

Step	Targets Covered
32	cruise.CruiseMain.CruiseMDL.Mode: MC/DC: Transition 9:F Decision: Transition 9:F Condition: Transition 9:deactivate==1.0:F cruise.CruiseMain.CruiseMDL.SpdCheck: MC/DC: Transition 10:F Decision: Transition 10:F Condition: Transition 12:T, Transition 14:F, Transition 10:F Condition: Transition 12:speed>dSpeed:T, Transition 10:F, Transition 10:lactive:F State: diff Condition Action: Transition 12, Transition 11
46	cruise.CruiseMain.CruiseMDL.DeactivateActivate: MC/DC: Transition 12:F Decision: Transition 12:F Condition: Transition 12:!active:F

API Improvements

- rsSimImportSuite recognizes flag "-M" to only import a suite if inputs and outputs match the current model. If the flag is not given, Reactis will adjust the imported data by leaving out input data from the test suite not used in the model and adding random values for data required by the model but not available in the test data.
- Added rsGUI API function to start Reactis GUI from the MATLAB command line.
- Added rsRsiRange, rsRsiSet, rsRsiDelta functions to simplify setting type constraints via the API.
- Added rsRsiIfThenElse function to support setting conditional input constraints.



Test Points

- Test points now break up conditional input branches and multiblock MC/DC groups, allowing coverage tracked for a model to better match coverage of corresponding C code.
- When importing test points, Reactis can import signal ranges set in Simulink.signal objects and automatically create assertions to monitor the ranges during test case generation.
- Added option to use signal name (instead of block name) for imported test points.



Reactis for EML Plugin

Support dynamic creation of structure values



TargetLink Import

Import fixpoint information such as slope and bias as well as ranges from the TargetLink data dictionary.

R Reactis Info F	ile Editor: Inpo	rt Types			
File Edit Tools	Tools Help				
	Synchronize Inports, Outports and Test Points				
	Synchronize Ir	nport rang	es with TargetLink Data Dictionary	-	
- Inport T - Configu	Reset Inports t	o Defaults	5		
Test Points Outport Tolera General Error Checking Coverage Met Excluded Cove Validator Obje C Code	rances ng etrics verage Targets	2 3 4 5 6 7 8	accelResume cancel decelSet brake gas inactiveThrottleDelta drag		



Other Enhancements

- Referenced models now inherit import settings from their parent model. This significantly reduces the setup necessary for models using model referencing.
- Variables in the watched variable panel are highlighted when their value changes.
- Coverage tracking can now be disabled for all targets within Validator Diagram Objectives.
- A new option allows you to exclude the "equal" case when tracking relational operator boundary coverage.
- When exporting to CSV, strip out the "(1)(1)" suffix for 1x1 matrices.
- Draw relational operator and constant on Compare To Constant blocks.
- Added option to not show empty subsystems in the hierarchy panel.

