

Reactis V2012.2

Released December 19, 2012



New Simulink Support

- ▶ MATLAB R2012b
- ▶ Simplified initialization mode
- ▶ Initializing constant blocks with Workspace variables having a structure type

Configuration Variable Sets

Motivation:

- ▶ Assume transmission software can control either:
 - ▶ 4 speed transmission with 1st gear ratio of 3.0
 - ▶ 5 speed transmission with 1st gear ratio of 3.5
- ▶ Previous versions of Reactis:
 - ▶ Tag *numGears* and *gearRatio* as configuration variables
 - ▶ *numGears* can be 4 or 5; *gearRatio* can be 3.0 or 3.5
 - ▶ But could not specify dependency of *gearRatio* on *numGears*, so all combinations used for testing:

<i>numGears</i>	<i>gearRatio</i>
4	3.0
4	3.5
5	3.0
5	3.5

Configuration Variable Sets

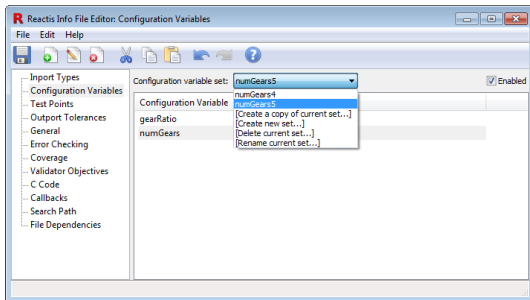
New feature *Configuration Variable Sets* lets you specify dependencies:

- ▶ If $numGears = 4$ then $gearRatio = 3.0$
- ▶ If $numGears = 5$ then $gearRatio = 3.5$

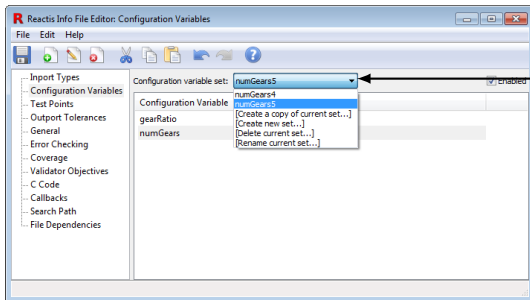
So we get only the desired combinations:

<i>numGears</i>	<i>gearRatio</i>
4	3.0
5	3.5

Configuration Variable Sets

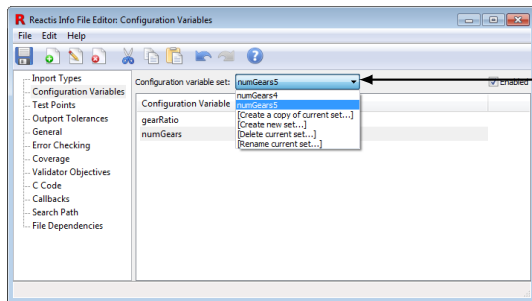


Configuration Variable Sets



Manipulate
Configuration
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Configuration variable set: numGears4

Configuration Variable	Type
gearRatio	double(3.0)
numGears	double(4.0)

4 Gears

Configuration variable set: numGears5

Configuration Variable	Type
gearRatio	double(3.5)
numGears	double(5.0)

5 Gears

Other Enhancements

- ▶ Faster model initialization
- ▶ Capability for administrator to disconnect user from license manager in order to free license