

# 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

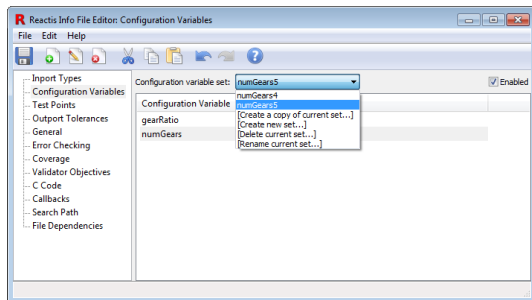
New feature *Configuration Variable Sets* lets you specify dependencies:

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

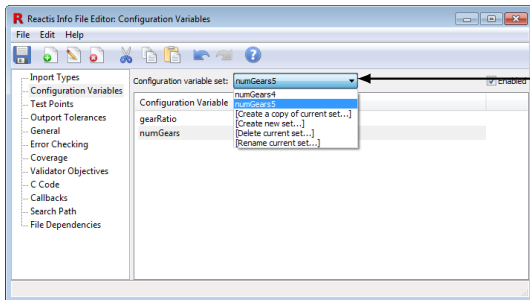
So we get only the desired combinations:

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

# Configuration Variable Sets

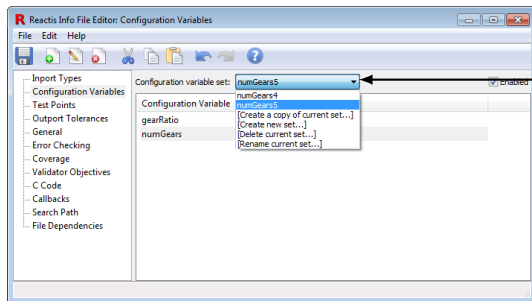


# Configuration Variable Sets



Manipulate  
Configuration  
Variable Sets

# Configuration Variable Sets



Manipulate  
Configuration  
Variable Sets

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