# Reactis V2012.2 Released December 19, 2012



#### 



©2012 Reactive Systems, Inc. - 1/6

#### MATLAB R2012b

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



#### 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:

numGears	gearRatio
4	3.0
4	3.5
5	3.0
5	3.5



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:

numGears	gearRatio
4	3.0
5	3.5



	R Reactis Info File Editor: Configuration Variables					
Import Types Configuration Variable set: Unificants Configuration Variable set: Configuration Variable set: Configuration Variable set: Unificants Configuration Variable set: Configuration Variab	File Edit Help					
Configuration Viriables     Configuration Viriable     Configuration Viriable     Configuration Viriable     Configuration Viriable     Configuration Viriable     Configuration Viriable     Configuration     Context	🔒 🗟 🔊 💑 🖻 🖺 🖛 🛩 😮					
Test points Configuration Variable (an opportunity status) (Configuration Variable (an opportunity status)) (Create new set) General numGears Delete correct set) Error Checking Control Set) Coverage Validator Objectives C Code C C Code Search Path		Configuration variable set:		📝 Enabled		
Conserved generation (Create new set)     Conserved generation (Create new set)     Converge     Converge     Validator Objectives     Code     C		Configuration Variable	numGears5			
- General numGears [Debete current set] - Error Checking Rename current set] - Corroge - Vilidator Objectives - C Code - Callbacks - Search Path		gearRatio	[Create a copy of current set]			
Coverage		numGears	[Delete current set]			
- Validator Objectives 			[Rename current set]	1		
– C Code – Callbacks – Search Path						
Search Path						
	Callbacks					
L. File Dependencies	Search Path					
	File Dependencies					



R Reactis Info File Editor: Co File Edit Help					Manipulate
Purport Types     Configuration Variables     Configuration Variables     Outport Toles     Outport Toles     General     Enror Checking     Coverage     Validate Objectives     Code     Galbacks     Search Path     File Dependencies	Configuration variable set: Configuration variable set: Configuration variable set: Configuration variable set: genRatio numGeass	numGears5	<b>←</b>	2 states	Configuration Variable Sets



R Reactis Info File Editor: Configuration Variables File Edit: Help	Manipulate	
Configuration Variables     Configuration Variables	(2) Entation	Configuration Variable Sets

Configuration variable set:		numGears4 -		
	Configuration Variable	Туре		
	gearRatio	double{3.0}		
	numGears	double{4.0}		

Configuration variable set:	numGears5 👻
Configuration Variable	Туре
gearRatio	double{3.5}
numGears	double{5.0}
-	

4 Gears





### Faster model initialization

 Capability for administrator to disconnect user from license manager in order to free license

