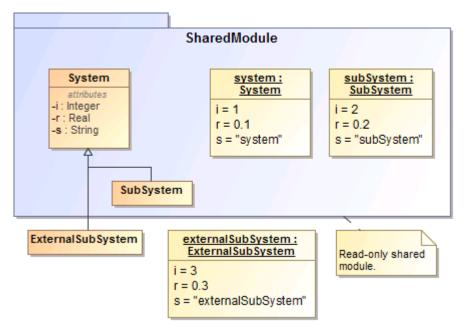
Updating default values

When an object acquires the properties of another, there is an inheritance relationship between them. The object that inherits the properties is called Subtype or Subclass (child) and the inheriting object is called Supertype or Class (parent). This inheritance relationship allows the child and the parent to have identical properties. If the property has a value, the Subclass will also inherits the value. Cameo Simulation Toolkit allows you to change the default value of an object or a Subtype whose property is defined in the Supertype or a read-only property. You can override this existing value in the subtype without changing the default value of the property of the Supertype by creating a redefine property of the subtype that represents the default values. The value of the property can be integer, real, or string.

When you change the inherited value in the subtype, e.g., from 2 to 3, in the Variables pane, the simulation will initiate at 3.

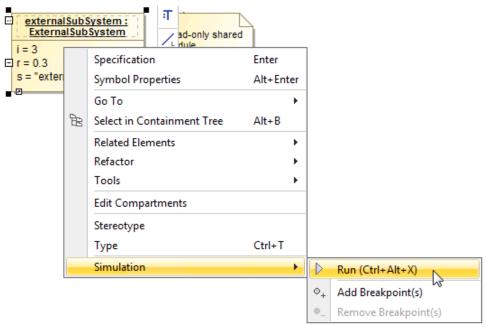
This example uses the model depicted in to show you how to update default values to an inherited and/or read-only property by creating redefined properties as follows



Inherited and read-only Properties of a Subtype.

To update default value(s) from an Instance Specification

1. Run a simulation on your model as follows



• Right-click the Instance of the Class (ExternalSubSystem in this example) on the Variable pane and select Save ToDefault Value(s).

🔀 Variables				×
ង Variables 🗙				
₽ ≌ ≥				Ф -
Name	Va	alue		
E ExternalSubSystem	:	Expand Recursively	!-	177
○ r : Real		Export Value To	•	
🔿 s : String		Save To Default Value(s)		
		Show in Timeline Chart		
		Go To	•	
	€₿	Select in Containment Tree	Alt+B	
		Create Sequence Diagram		

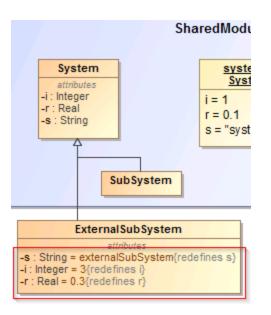
• Right-click the Instance of the Class (ExternalSubSystem in this example) on the diagram pane and select Tools > Save ToDefault Value(s).

		System : bSystem Read-only shared			
E r = 0.3		Specification	Enter		
s = "exte		Symbol Properties	Alt+Ente	er	
		Go To		F	
	æ	Select in Containment Tree	Alt+B		
		Related Elements		F	
		Refactor		•	
		Tools		•	Save To Default Value(s)
		Edit Compartments			Generic Table Wizard
		Stereotype			
		Туре	Ctrl+T		
		Simulation		١.	

3. A Question dialog will open asking if you want to redefine the values in the Subtype. Click Yes.

Question	X
?	Some properties are inherited from super type definition. Do you want to redefine defaults in subtypes?
	Yes No

Cameo Simulation Toolkit will create new redefined properties for the ExternalSubSystem (i, r, and s), and save the default values (i = 0, r = 0.0000, and s = null) to the new properties.



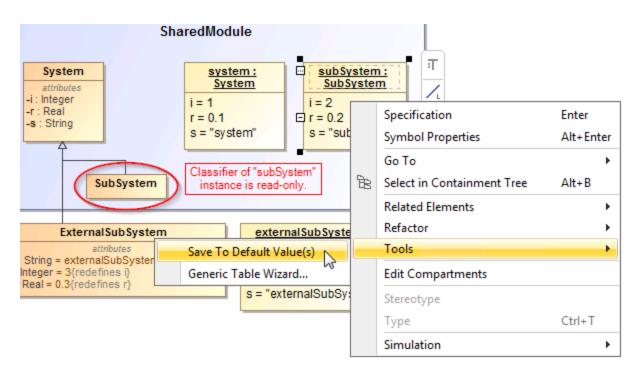
4. On the Variables pane, change the default value of property i, r, and s of ExternalSubSystem.

🔓 Variables 🗙 👴 Bre	eakpoints 🗙
🥩 🗎 🗎	ø
Name	Value
🖃 🔚 ExternalSubSystem	ExternalSubSystem
🔿 i : Integer	0
🔿 r : Real	0.0000
🦾 🔿 s : String	

5. Each time you finish updating the value, right-click the property in the Variables pane and select Save ToDefault Value(s).

— 🌖 i : Integer					
🗝 🔿 r : Real		Expand Recursively		ŀ	
🔿 s : String		Add Value			
		Remove Value			
		Export Value To	•	Η	
		Save To Default Value(s)			
		Show in Time Series Chart		Η	
	æ	Select in Containment Tree	Alt+B		
		Edit			

6. If the Subtype Instance is read-only, you need to click the Classifier and select Tools > SaveTo Default Value(s).



If Cameo Simulation Toolkit cannot create redefined properties, a warning message will appear.

Simulation	
Simulation	a x
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». Console ×	
	Q -
WARN: The following element(s) cannot be updated because they are in read-only project(s)):
Slot i = 2 Slot s = "subSystem"	
Slotr = 0.2	
Class SubSystem	
>> (default)	~

Related page

Redefine