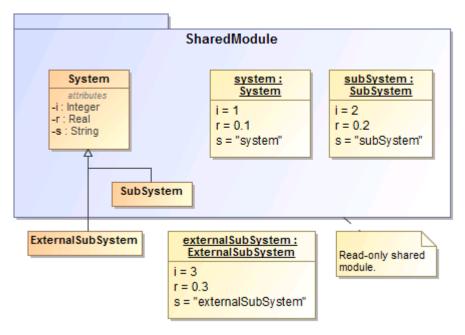
Updating default values

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. Magic Model Analyst 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



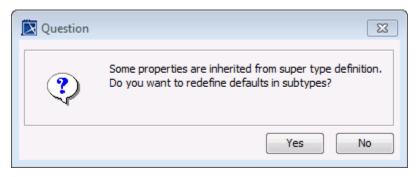
Inherited and read-only Properties of a Subtype.

To update default value(s) from an Instance Specification

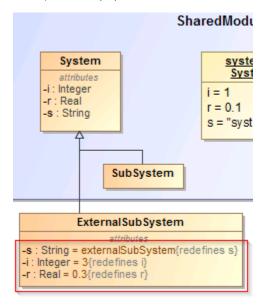
1. Run a simulation on your model as follows

Extern	alSub	System : ad-only shared		_
i = 3 E r = 0.3		Specification	Enter	
s = "exte	n	Symbol Properties	Alt+Enter	
		Go To	۱.	
	æ	Select in Containment Tree	Alt+B	
		Related Elements	Þ	
		Refactor	+	
		Tools	•	
		Edit Compartments		
		Stereotype		
		Туре	Ctrl+T	
		Simulation		Run (Ctrl+Alt+X)
				○ ₊ Add Breakpoint(s)
				•_ Remove Breakpoint(s)

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



Magic Model Analyst 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.



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

🔓 Variables 🗙 👴 Bro	eakpoints 🗙
2 🗎 🗎	0
Name	Value
🖃 🔚 ExternalSubSystem	ExternalSubSystem
🔷 i : Integer	0
🔿 r : Real	0.0000
🦾 🔿 s : String	

4. 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		7.
s : String		Add Value		
		Remove Value		
		Export Value To	•	
		Save To Default Value(s)		
		Show in Time Series Chart		
	æ	Select in Containment Tree	Alt+B	
		Edit		

If Magic Model Analyst cannot create redefined properties, a warning message will appear.

O Simulation							
Simulation	a x						
🜗 🗐 🗐 🔲 😕 🕲 😫 <mark>ح</mark> 🔁 🌆 Trigger: 🔛 🕨							
». Console ×							
	Q -						
WARN: The following element(s) cannot be updated because they are in read-only project(s):							
Sloti = 2							
Slot s = "subSystem"							
Slot r = 0.2 Class SubSystem							
>> (default)	~						

Related page

Redefine