## Integration with external Evaluators

Modelling tool allows you to use an external Evaluator to evaluate an opaque expression in your model. Therefore, you can use any language supported by the external Evaluator in the body of the opaque expression.

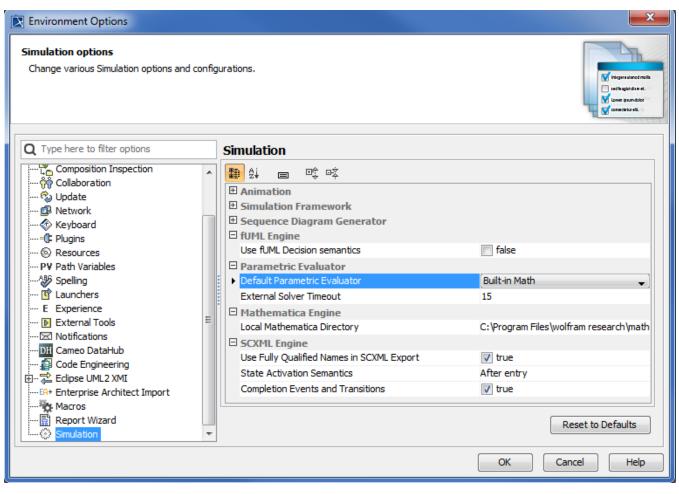
- Integration with MATLAB (R2012a or later)
- Integration with MapleTM (17 or later)
- Integration with Mathematica (9 or later)
- Integration with OpenModelica (1.9.6 or later)

You must specify the name of the language in the opaque expression. If you do not specify the language of the opaque expression, will use the Default Language specified in **Simulation Framework** in the **Environment Options** dialog as follows.

Environment Options Simulation options Change various Simulation options and co	nfigurations.	Verser a stand rolls in the spandare at in t
<b>Q</b> Type here to filter options	Simulation	
General     Diagram     Diagram     Diagram     Composition Inspection     Collaboration     Qudate     Qudate     Network     Keyboard     Plugins     Seling     Spelling     Launchers     E Experience     External Tools     External Tools     Code Engineering     Code Engineering     Code Engineering     Eclipse UML2 XMI     Senterprise Architect Import     Macros	まま Visited Color Auto Open Diagrams  Simulation Framework	RGB [255, 255, 0]
	Check Model Before Execution	false
	Default Language  Engines Priority	JavaScript Rhino
	Silent	JavaScript Rhino
	Auto Start	Mathematica
	Autostart Active Objects	Python
	Treat All Objects as Active	Ruby
	Terminate Behavior on Exception Thrown	V true
	Initialize Empty Values to 0	false
	Sequence Diagram Generator	
	Record State Change	V true
Report Wizard	Record Value Change	V true
Simulation	Record Timestamp	false     Reset to Defaults
		OK Cancel Help

The Default Language property in the Environment Options dialog.

If the language of expressions of constraints of a SysML Constraint Block is not specified, modeling tool will use the Evaluator, specified in **Default Parametric Evaluator** in the **Environment Options** dialog, to solve the expressions as follows.



The Default Parametric Evaluator property in the Environment Options dialog.

## **Related pages**

- Specifying the language for the expression
- Value binding
- Evaluating expressions
- Evaluation with causality
- Dynamic constraint
- Manual value updates using the Parametric Evaluator
- Communicating with evaluators through simulation console
- Exchanging values between Cameo Simulation Toolkit and Parametric Evaluator
- Built-in Math
- Trade study with Cameo Simulation Toolkit
- Sample project