What's new in Cameo Simulation Toolkit 18.1 FR

Duration Simulation and Analysis

The duration Constraints can be put on Actions to control how long it takes to execute them.

The Execution Configuration allows to select one of available duration simulation modes: min, max, average or random time in the range specified in constraint.

Action Duration Simulation.

The Simulation engine adds an artificial delay to pretend that object is "busy" longer than usual; one action takes longer than other to execute. The Duration spent on action execution is shown in a tooltip on visited actions on diagram.

• Total Activity Time Calculation.

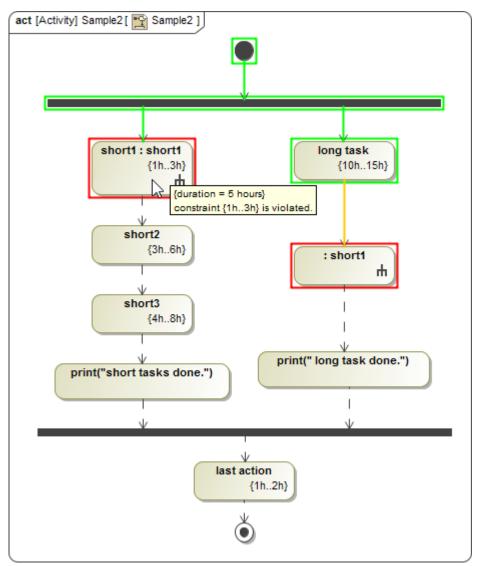
The total Activity duration is then calculated by adding durations of all visited actions, taking into account parallel forks executions if such. The total time of the same activity execution may vary if execution path is different (e.g. decision nodes are used).

Duration Constraint Checking.

If total activity duration does not fit into Duration Constraint ranges specified on the CallBehaviorAction, the Constraint fails and user will be notified.

• Duration Between Messages.

The recorded sequence diagrams can be replayed at the same speed as originals, as checking difference of the recorded timestamps simulates durations between messages. That is particularly useful for simulation of the recorded user interaction.

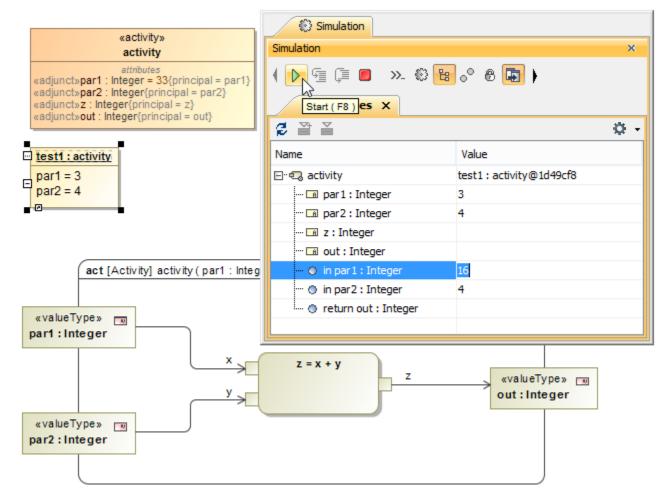


User can evaluate numbers of alternative designs or numbers of different testing scenarios by evaluating entire Instance Table or any other table with one click. Select **Evaluate** to execute all elements in the table one-by-one, in order.

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5	🖃 test5	3	4	
6	🖃 test6	2	55	
7	🖃 test7	66	55	
8	🖃 test8	1	8	
9	🖃 test9	3	4	
10	🖃 test 10	4	6	
11	🖃 test11	30	66	
12	🖃 test12	24	80	
13	🖃 test13	3	4	
14	🖃 test 14	2	55	
15	🖃 test15	66	55	
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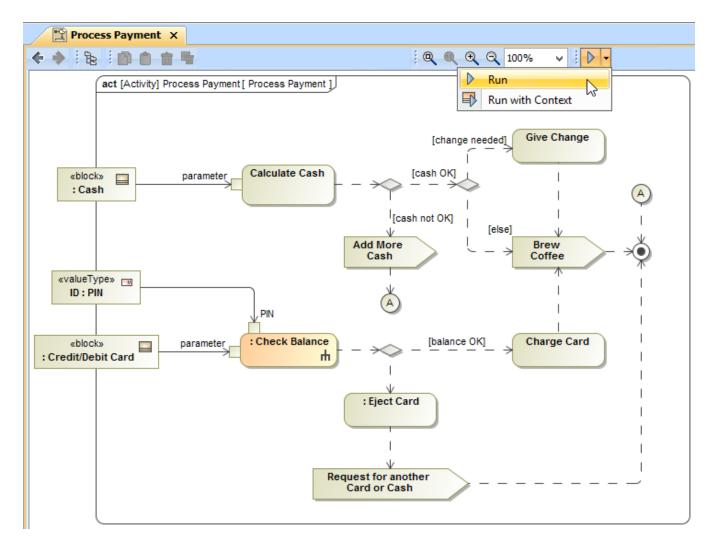
Parameterized Behaviors Execution

The Behavior input values can be specified directly in the Variables pane or predefined as Instance slots for adjunct properties.



Quick Run and Restart

Click the Run button for quick execution for any diagram or table.



Click the Restart button in Simulation window at the end for quick restart of the last execution.

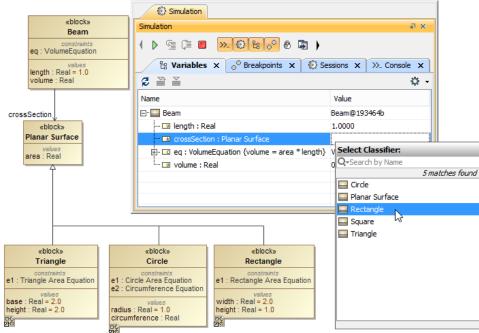
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Variables Panel Enhancements

• Filter for unnecessary property kinds.

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• Double-click on part value cell and select a subtype to initialize it.



• Menu for expanding nodes recursively.

Simplified MATLAB and Maple Integration

Forget about command line and system settings editing! Go to Tools->Integration and with one click integrate Matlab or Maple.

Select a 3rd party application and click Integrate/Unintegrate to start or stop the integration.							
You may integrate MagicDraw with Integration	these applications: Requirements	Status					
🚯 Maple	Maple installed.	Not Integrated					
Eclipse MATLAB	Eclipse 3.7 (or later) platform and products based on it MATLAB installed.	Not Integrated Not Integrated					
AndroMDA	AndroMDA 3.2	Not Integrated Not Integrated					
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