Activity simulation

Activity simulations essentially require the Activity simulation engine in Magic Model Analyst to perform all Activity-based simulations. The details are outlined in the following topics:

Activity simulation engine

Running Activity Simulation in Activity diagrams or Activity elements.

• Creating a model for Activity simulation

Simulating Classifiers defined by Activities.

Executing Activities

Suspending the simulation with breakpoints.

· Activity duration simulation

Calculating and analyzing Activity duration and specifying duration constraints.

Duration analysis

Directing target objects to the callOperationAction.

Running a Call Action simulation without a target pin

Simulating a CallOperationAction that does not have a target pin to select a runtime object as a target.

Activity Partition execution and allocated Behavior

Using Activity Partition as an element in the Activity diagram to set the boundary of simulation of an execution.

• Execution of incomplete/dummy models

Executing incomplete and dummy models with Behaviors of Actions when input or output pins or any properties of Actions are not specified or present.

Using utility functions of Simulation

Facilitating common tasks through Opaque Behaviors under SimulationProfile::library::utils.