Simulation time and simulation clock

When you simulate a model related to time, for example, a transition with a time trigger, Cameo Simulation Toolkit will obtain simulation time from a simulation clock. The simulation time is the amount of time spent on simulating a model. Cameo Simulation Toolkit also uses the simulation time in a timestamp of a signal instance in the SimulationLog (see Simulation log), in a time series chart (see Time series chart), and on messages of a generated Sequence diagram.

There are three types of simulation clocks in Cameo Simulation Toolkit:

- **Built-in clock.** This is the default simulation clock.
- **Internal simulation clock.** This clock is designed to precisely control the simulation time. Its implementation is based on UML run-to-completion semantics and internal completion events.
- **Model-based clock.** You can select the model-based clock by making the property as the time value tag definition of an simulation config. See Model-based Clock for further details on the model-based clock.

Related pages

- Built-in clock
- Internal simulation clock
- Model-based clock