Overview

The Snoopy steering framework consists of the Snoopy Steering Server (SSServer), the Steering Graphical User Interface (Steering GUI), the Steering Application Programming Interface (APIs), and the internal and external simulators.

In a typical application scenario, a user constructs a model using a Petri net editing tool (e.g., Snoopy). Afterwards, the Petri net model is submitted to one of the running servers to quantitatively simulate it. Later, other users can adapt their steering GUIs to connect to this model. One of the connected users initialises the simulation while others could stop, pause, or restart it. When the simulator initially starts, it uses the current model settings to run the simulation. Later, other users can remotely join the running simulation and change on the fly parameters and the current marking.

Features

- Remotely run and control a simulation
- Execute the same model using different simulation algorithms
- Manage concurrently different models with possibly different simulators
- Define different views to explore the simulation results
- Explore on the fly your running models
- Steer simulation parameters while the simulation is running
- Control the simulation speed
- Connect to your simulation at any time from whatever place
- Collaborate with other people while executing model dynamics
- Platform-independent implementation

Technical Specifications

- Client-server architecture
- Use of (colored) continuous, stochastic and hybrid Petri nets to construct and manipulate models
- Comes with full-fledged built-in simulators

System Requirements

<table>
<thead>
<tr>
<th>Requirements</th>
<th>Snoopy</th>
<th>SSServer</th>
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<tbody>
<tr>
<td></td>
<td>Minimal</td>
<td>Optimal</td>
</tr>
<tr>
<td>Processor</td>
<td>1 GHz</td>
<td>2 GHz</td>
</tr>
<tr>
<td>RAM</td>
<td>256 M</td>
<td>1 GB</td>
</tr>
<tr>
<td>Free Hard Disk Space</td>
<td>500 M</td>
<td>2 GB</td>
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<tr>
<td>LAN adapter</td>
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<td>X</td>
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</tbody>
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