**AEmilia Textual Description:** It is derived from the statecharts, which represent the behavior evolution of components, and from the flow graph, which contains information on the interactions between instances.

**Flow Graph:**

- **System Flow:**
  - Flow 1
  - Flow 2

- **Components:**
  - Component A
  - Component B

- **Interactions:**
  - Interaction 1
  - Interaction 2

**Performance Information:** (such as execution time) are included into the component actions.

**Performance Indices:** are expressed through the reward theory.

The model is evaluated by TwoTowers tool.

---

**Conclusions:**

**Simulation Model:**
- **AEmilia TwoTowers:**
  - Performance Model
  - Simulation Results

**Software Model:**
- **UML Model**
- **Simulation Model**
- **Simulation Results**

**Model Validation:**

- **Equipped Model**
  - Equipped Model
  - Model Impact

**Simulation Results:**

<table>
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<tr>
<th>Num.</th>
<th>Configuration Scenario</th>
<th>Requirement Verified?</th>
<th>Recovery Scenario</th>
<th>Requirement Verified?</th>
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**Simulation Modeling:**

The system is described in term of Use Case, Activity and Deployment diagrams. Use Cases represent Workloads. Deployment diagrams describe physical resources (processors), and Activity diagrams represent computations performed on the processors.

The UML-PSI tool builds a simulation program from the annotated UML model. Simulation results (mean execution time of actions and whole activity diagrams) are reported.

According to the results, the requirement on the configuration scenario is verified with less than 3 requirements. The requirement on the recovery scenario is never verified.