Advanced Programming (I00032) Testing simulation relation of iTask

Assignment 10

Preparation

In this exercise you implement the simulation relation $s \subseteq t$ that determines whether every event that makes sense in s also makes sense in t. Study the lecture slides. Take the following preparation steps:

- On Blackboard you find the complete operational semantics of iTasks that has been presented in the previous lecture (iTaskSemantics.zip).
- Create a new module that imports the semantic definition iTask_semantics and the confSM module of G∀st.
- Set the project to iTasks. In the project settings, add a path to {Application}/iTasks—SDK/Examples/ESMVizTool
 It contains the G∀st modules that compile with the latest iTask modules and generics.
- We advice you to use the InputFun option of testConfSM from module confSM to generate appropriate inputs for your task that acts as specification. For this to work, you need to alter line 473 of confSM.icl into:

```
InputFun f = {ts & inputs = f }
```

Assignment

With the above preparations, implement the simulation relation $s \subseteq t$ that has been presented in the lecture, using the testConfSM function from confSM.icl. The signature of your function should be:

Deadline

The deadline for this exercise is December 9, 23:59h. Upload only the new module(s) that you have created for this assignment. We assume that you have not altered the files that you find in iTaskSemantics.zip.