FROM RESEARCH TO INDUSTRY

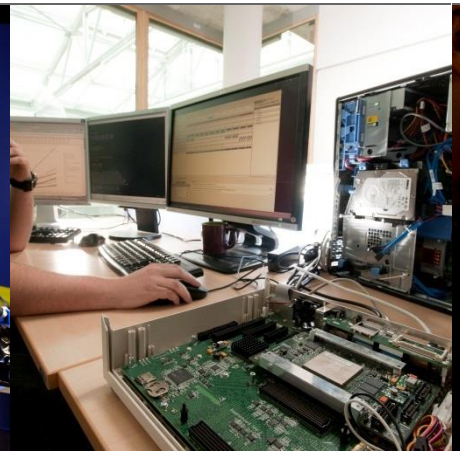
cea tech

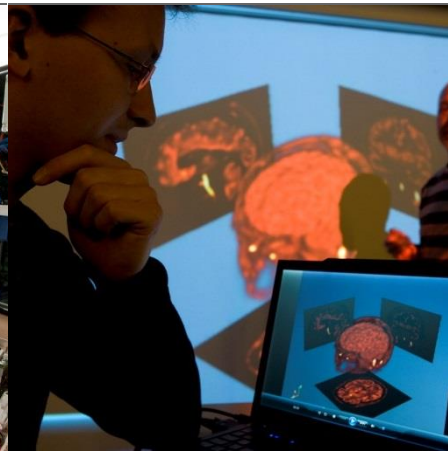
list

[PSSM] – WEBEX JANUARY 8TH

Jérémie TATIBOUET (CEA LIST)

Arnaud CUCCURU (CEA LIST)





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SUMMARY

Contributions from last meeting

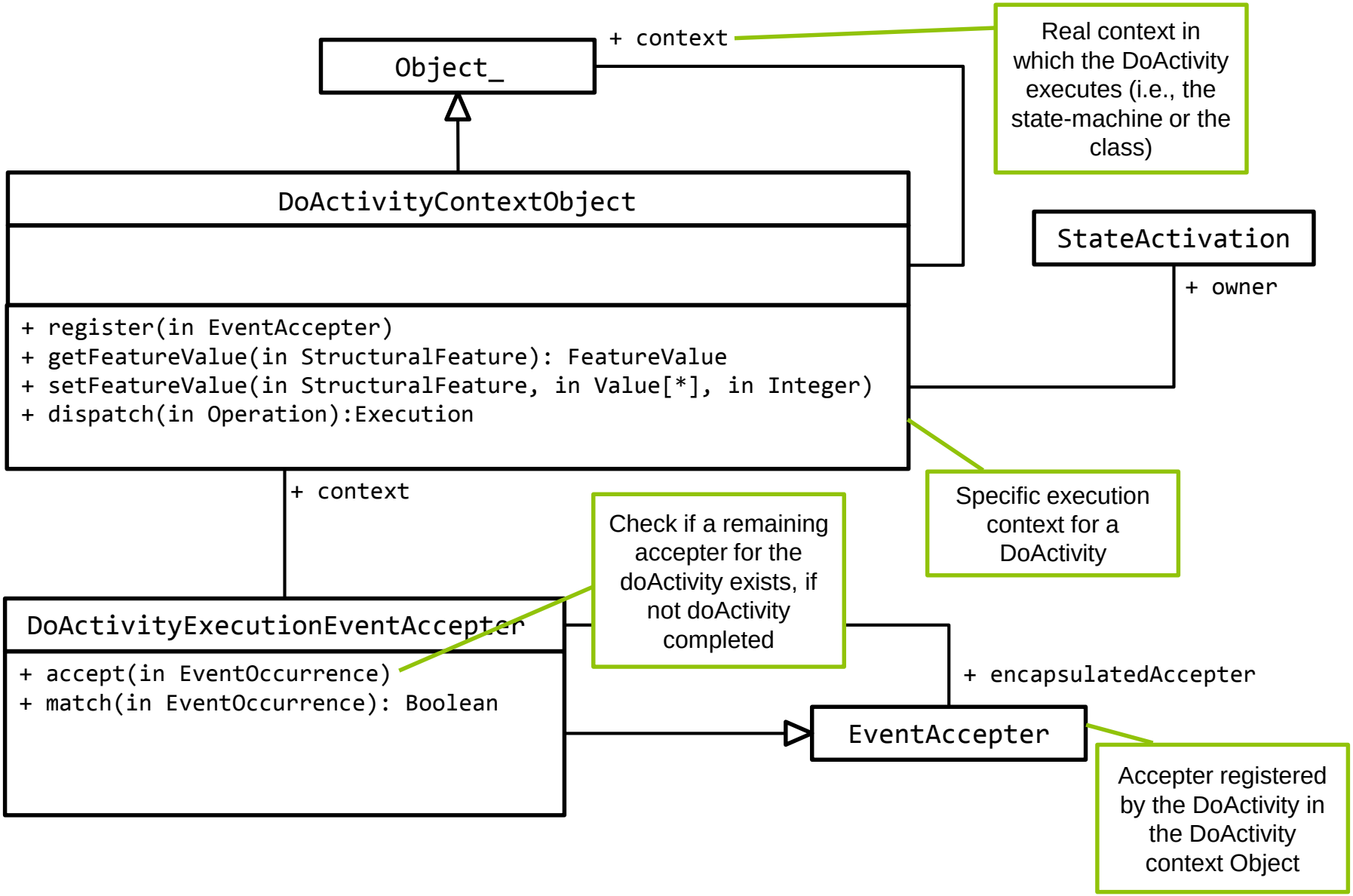
- Quick fixes
  - “SM_*” => “StateMachine*”
  - “isReactive” => “isFireable”
  - doActivity must be started before regions of a composite state are entered
  - “state” => “status” in “TransitionActivation” and “StateActivation”
  - “ConnectionPointReferenceActivation” => “ConnectionPointActivation”
- New parts of the semantics
  - DoActivity
  - Fork
- New tests
  - DoActivity
  - Fork
  - Standalone state-machines

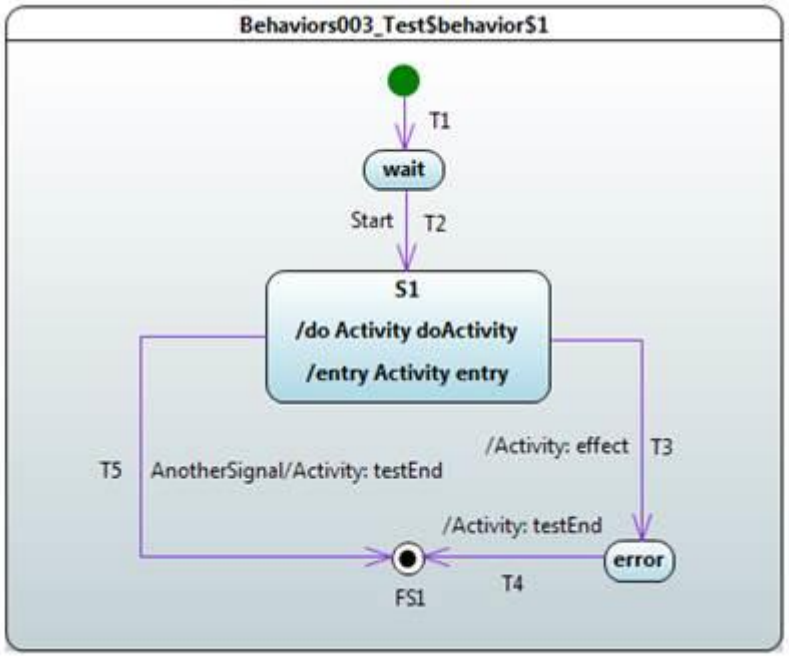
Questions

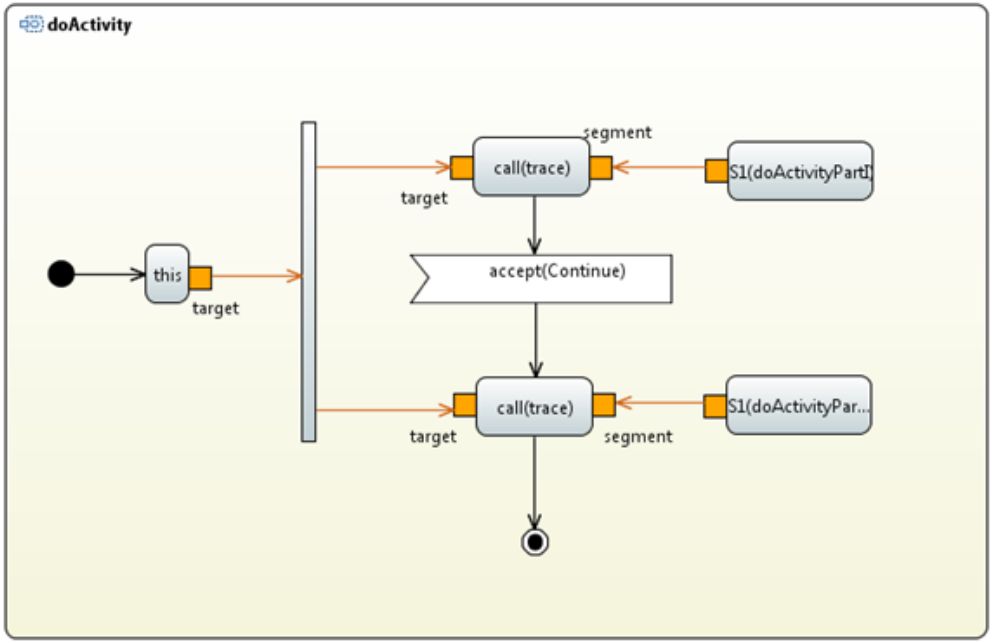
- Local transitions

DOACTIVITY

NEW PART OF THE SEMANTICS

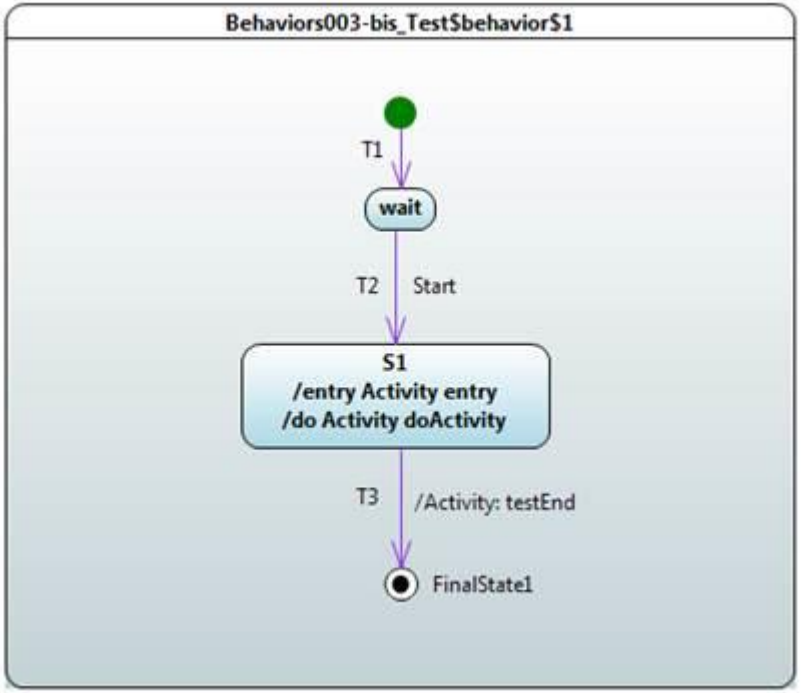


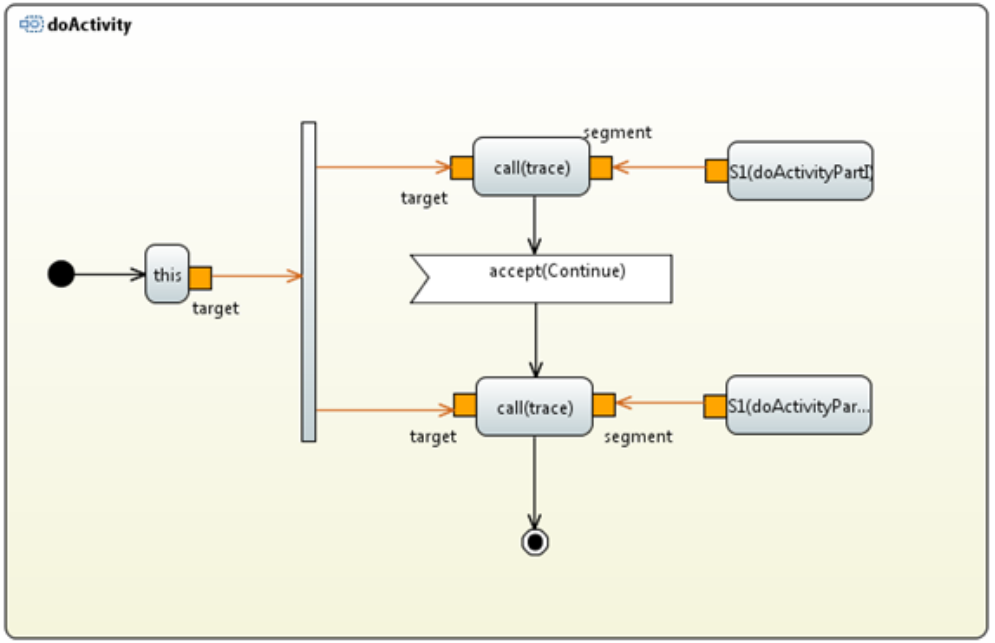




Test

- Stimulation sequence
  - Start
  - AnotherSignal
- Trace
  - `Initial – T1 – wait – T2 – S1(entry) – S1 (doActivityPartI) – T5 – FS1`



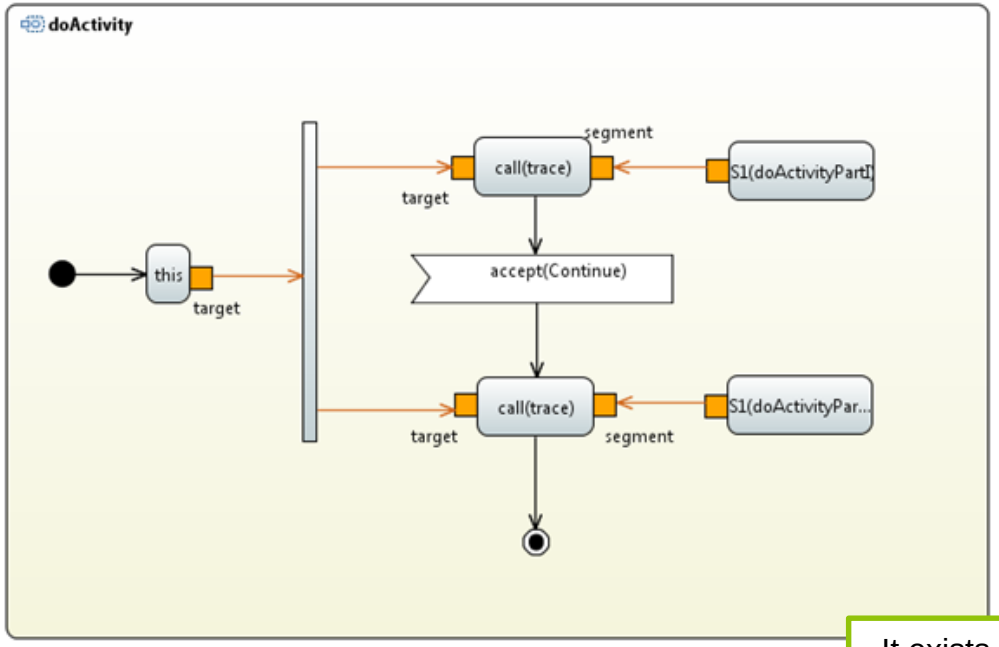


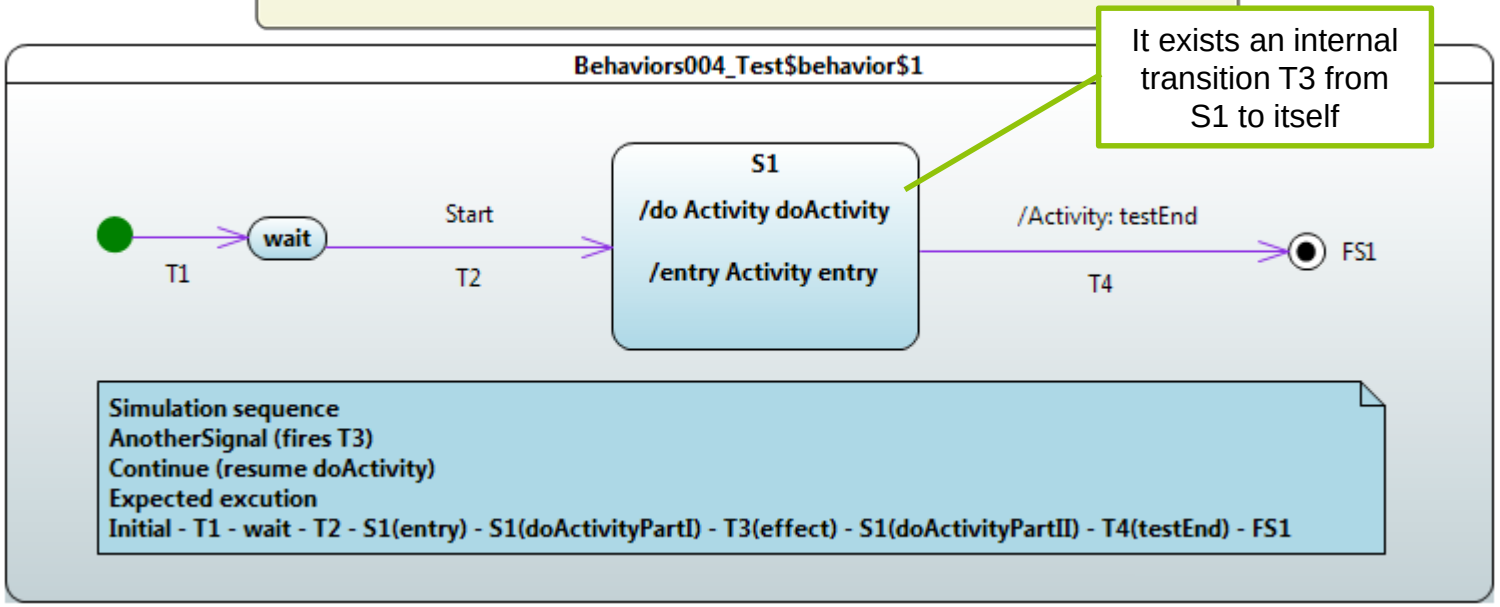
Test

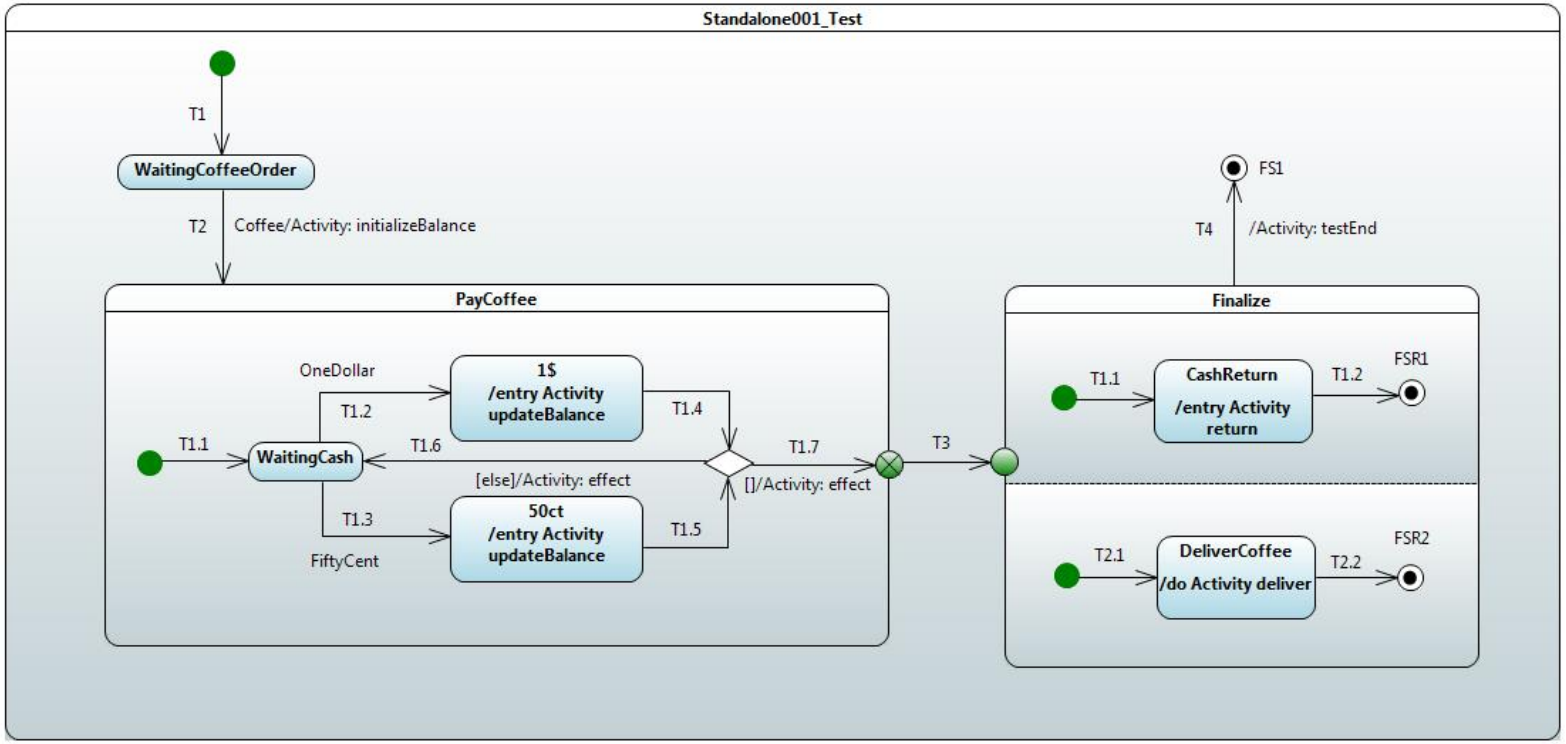
- Stimulation sequence
  - Start
- Trace
  - `Initial – T1 – wait – T2 – S1(entry) – S1(doActivityPartI) – S1 (doActivityPartII) – T3 – FinalState1`

DOACTIVITY

TEST 3 – THE DOACTIVITY IS NOT AFFECTED BY INTERNAL TRANSITION



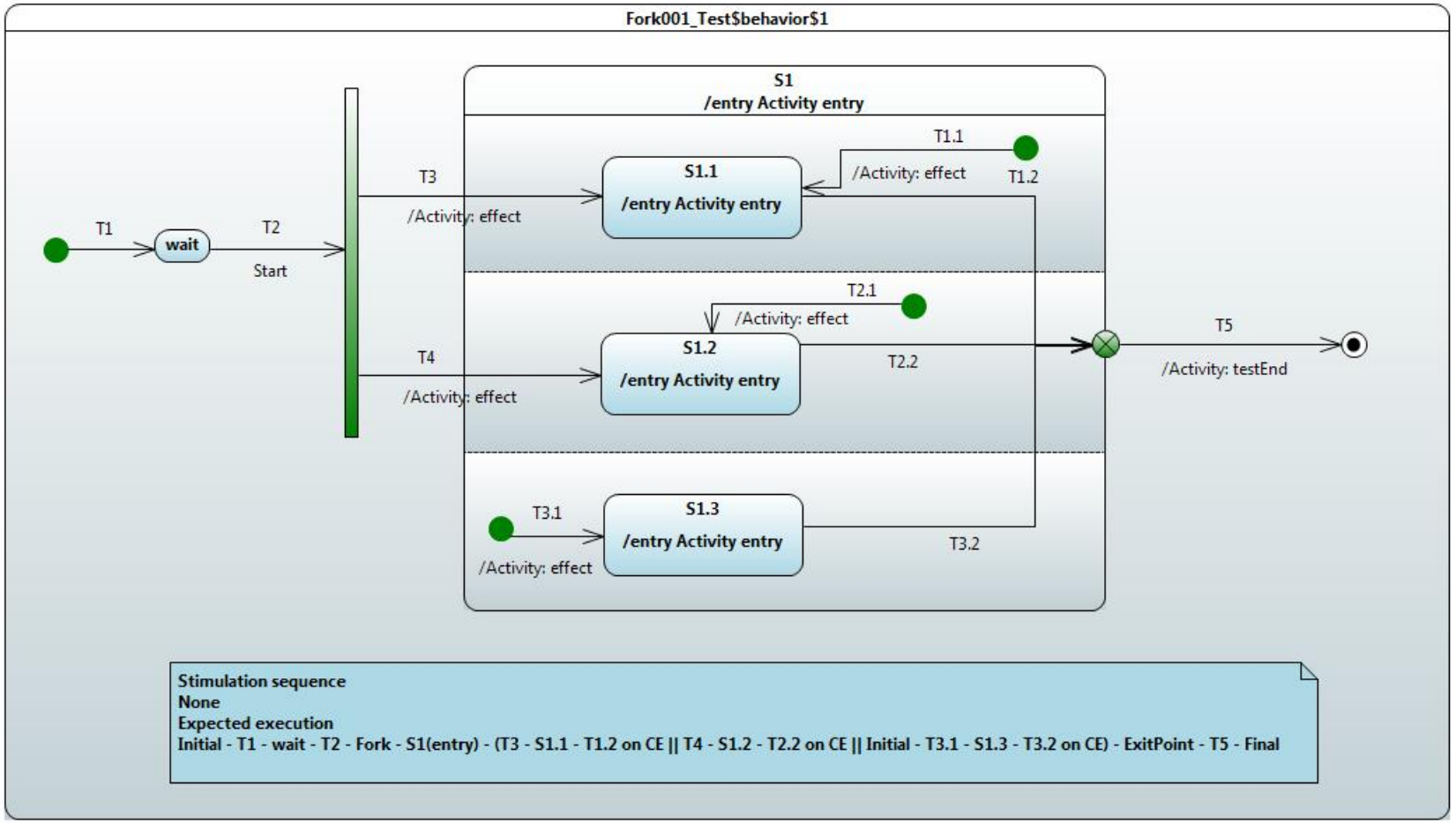


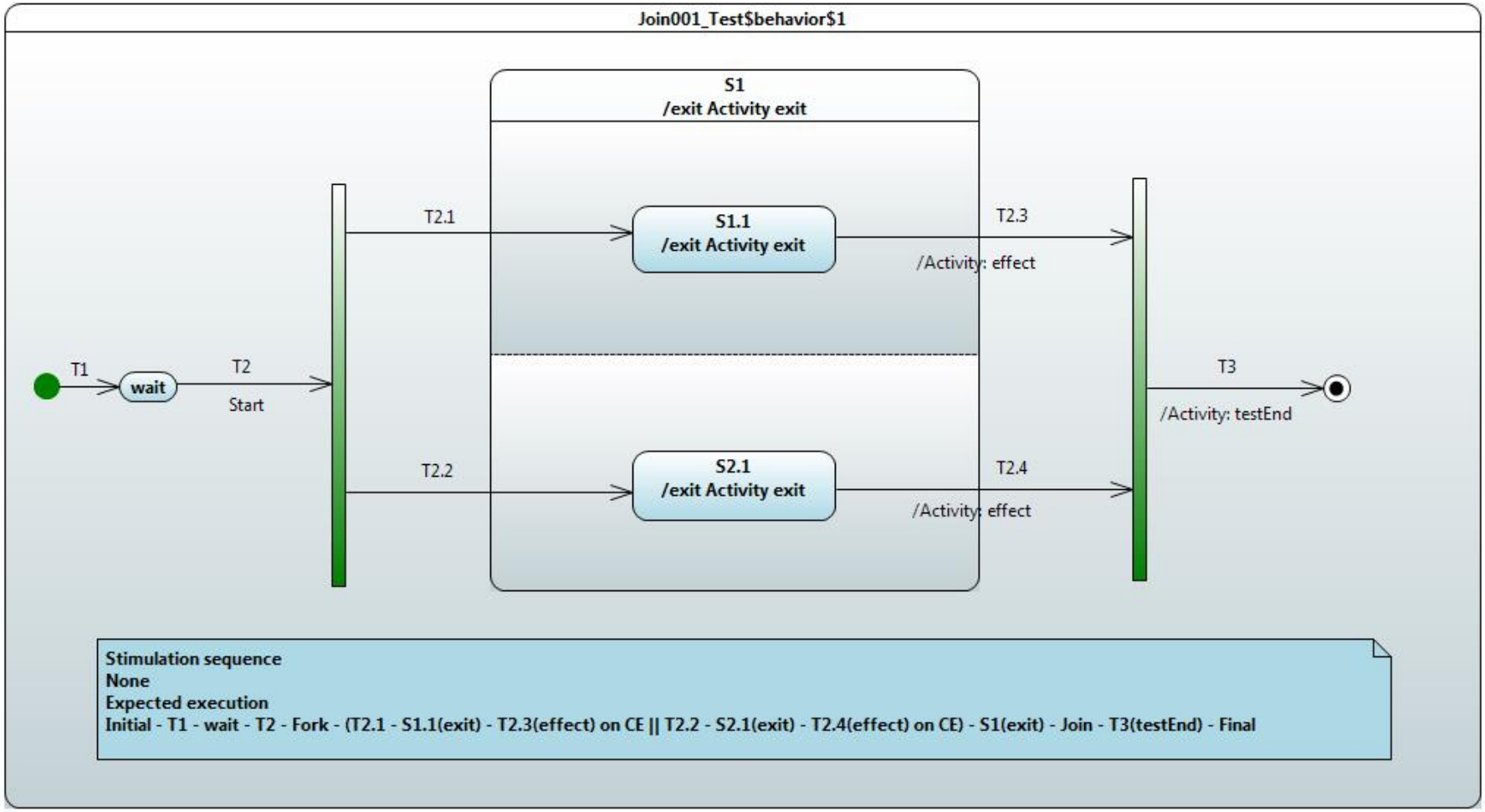


Test

- Integration within the test suite
  - The state-machine is a test « Target » (inheritance)
  - It is started through a « StartObjectBehavior »

- Stimulation sequence:
  - Coffee, OneDollar, OneDollar


Fork001_Test$behavior$1
S1
/entry Activity entry
T1
wait
T2
Start
T3
/Activity: effect
S1.1
/entry Activity entry
T1.1
/Activity: effect
T1.2
T4
/Activity: effect
S1.2
/entry Activity entry
T2.1
/Activity: effect
T2.2
T5
/Activity: testEnd
T3.1
/Activity: effect
S1.3
/entry Activity entry
T3.2
Stimulation sequence
None
Expected execution
Initial - T1 - wait - T2 - Fork - S1(entry) - (T3 - S1.1 - T1.2 on CE || T4 - S1.2 - T2.2 on CE || Initial - T3.1 - S1.3 - T3.2 on CE) - ExitPoint - T5 - Final


Join001_Test$behavior$1
S1
/exit Activity exit
T1
wait
T2
Start
T2.1
S1.1
/exit Activity exit
T2.3
/Activity: effect
T2.2
S2.1
/exit Activity exit
T2.4
/Activity: effect
T3
/Activity: testEnd
Stimulation sequence
None
Expected execution
Initial - T1 - wait - T2 - Fork - (T2.1 - S1.1(exit) - T2.3(effect) on CE || T2.2 - S2.1(exit) - T2.4(effect) on CE) - S1(exit) - Join - T3(testEnd) - Final