Quantitative Verification Session 3 - Solutions

November 7, 2017

UPPAAL Modeling

Exercise 1. Fischer's mutual exclusion protocol can be found in the UPPAAL demos folder (see `demo/fischer.xml` and `demo/fischer.q`). To read more about this protocol, see [1].

Exercise 2. One can limit the capacity of the elevator by introducing a new variable which is used as a counter. Unlike in standard TA, UPPAAL allows you to use discrete variables other than clocks and also use them in guards.

Exercise 3. See `demo/train-gate.q`

References

[1] `https://www2.informatik.hu-berlin.de/~hs/Aktivitaeten/2011_Vino/Talks/Morning/11_Tom-Davies_Fischers-Algorithm.pdf`