

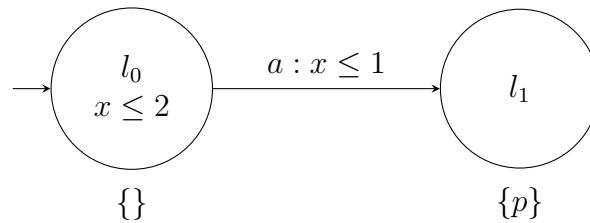


Tutorial for Cyber-Physical Systems - Hybrid Models

Exercise Sheet 4

Exercise 1: Region Transition System

Consider the following timed automaton \mathcal{T} .



- (a) Provide $RTS(\mathcal{T}, \text{true})$.
- (b) Does \mathcal{T} have a time-lock path? If so, how can we recognize it on $RTS(\mathcal{T}, \text{true})$?
- (c) Identify all states of $RTS(\mathcal{T}, \text{true})$ which satisfy the formula $\Phi = \mathbf{A}\mathcal{F}p$.