Assignment 10: CCS advanced concepts

ETH Zurich

1 Strong Bisimulation

Consider the following labelled transition system:

Show that $P \sim Q$ by finding a strong bisimulation $R$ such that $P R Q$.

2 Weak Bisimulation

Suppose we have the following definitions of processes

Further we have

Your task is to

1. Represent $ST$ and $UV$ as LTSs.
2. Show that $ST$ and $UV$ are weakly bisimilar.
3. Suppose we further have $UV' \overset{\text{def}}{=} (U | V) \sim \{y\}$. Show that $ST$ and $UV'$ are not weakly bisimilar.