

Concurrency Semantics

Exercises 7

Prof. Nestmann, 2005

1. Open bisimulation

Let $D \stackrel{\text{def}}{=} \{(a, b), (b, c)\}$, $P \stackrel{\text{def}}{=} a() \mid b() \mid \bar{c}()$, and
 $Q \stackrel{\text{def}}{=} a().(b().\bar{c}() + \bar{c}().b()) + b().(a().\bar{c}() + \bar{c}().a()) + \bar{c}().(a().b() + b().a())$.

1. Show that $P \not\sim^D Q$.
2. Find D' such that $P \sim^{D'} Q$.

2. ABC Intro

Verify your answers to exercise 1. using ABC.

3. Modelling a Problem in π

See separate handout.