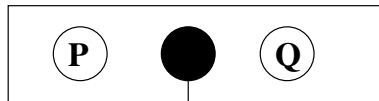


SimpleSystemSpec



$SV_{SimpleSystem} =$

$\langle \text{p-send}(m), \text{in}(m), - \rangle \rightarrow \text{in}(m)$

$\langle \text{p-a}, -, - \rangle \rightarrow \text{p-a} [\forall m. \text{p-a} \neq \text{p-send}(m)]$

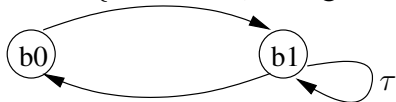
$\langle -, \text{out}(m, \text{ec}), \text{q-recv}(m, \text{ec}) \rangle \rightarrow \text{out}(m, \text{ec})$

$\langle -, -, \text{q-b} \rangle \rightarrow \text{q-b} [\forall m, \text{ec}. \text{q-b} \neq \text{q-recv}(m, \text{ec})]$

$\langle -, \tau, - \rangle \rightarrow \tau$

PerfectBuffer

$\text{in}(?m) \{ \text{b_ec} := 0, \text{b_msg} := m \}$



$\text{out}(\text{b_msg}, \text{b_ec}) \{ \text{b_ec} := \text{b_ec} + 1 \}$