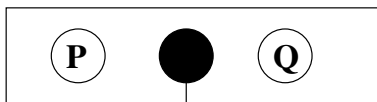
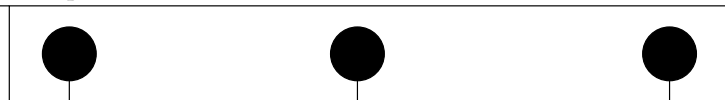


*SimpleSystem*



$$\begin{aligned}
 SV_{SimpleSystem} = & \\
 & \langle \text{p-send}(m), \text{in}(m), - \rangle \rightarrow \text{in}(m) \\
 & \langle \text{p-a}, -, - \rangle \rightarrow \text{p-a} [\forall m. \text{p-a} \neq \text{p-send}(m)] \\
 & \langle -, \text{out}(m, \text{ec}), \text{q-recv}(m, \text{ec}) \rangle \rightarrow \text{out}(m, \text{ec}) \\
 & \langle -, -, \text{q-b} \rangle \rightarrow \text{q-b} [\forall m. \text{q-b} \neq \text{q-recv}(m)] \\
 & \langle -, \tau, - \rangle \rightarrow \tau
 \end{aligned}$$

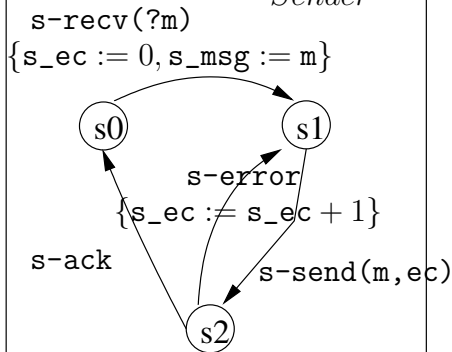
*SimpleProtocol*



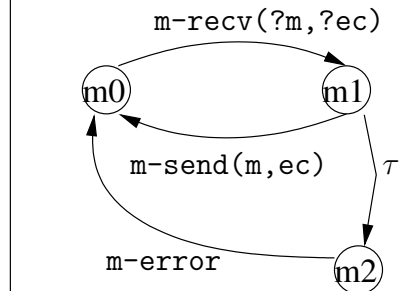
$$SV_{SimpleProtocol} =$$

$$\begin{aligned}
 & \langle \text{s-recv}(m), -, - \rangle \rightarrow \text{in}(m) \\
 & \langle \text{s-send}(m, \text{ec}), \text{m-recv}(m, \text{ec}), - \rangle \rightarrow \tau \\
 & \langle -, \text{m-send}(m, \text{ec}), \text{r-recv}(m, \text{ec}) \rangle \rightarrow \tau \\
 & \langle \text{s-error}, \text{m-error}, - \rangle \rightarrow \tau \\
 & \langle \text{s-ack}, -, \text{r-ack} \rangle \rightarrow \tau \\
 & \langle -, -, \text{r-send}(m, \text{ec}) \rangle \rightarrow \text{out}(m, \text{ec}) \\
 & \langle -, \tau, - \rangle \rightarrow \tau
 \end{aligned}$$

*Sender*



*Medium*



*Receiver*

