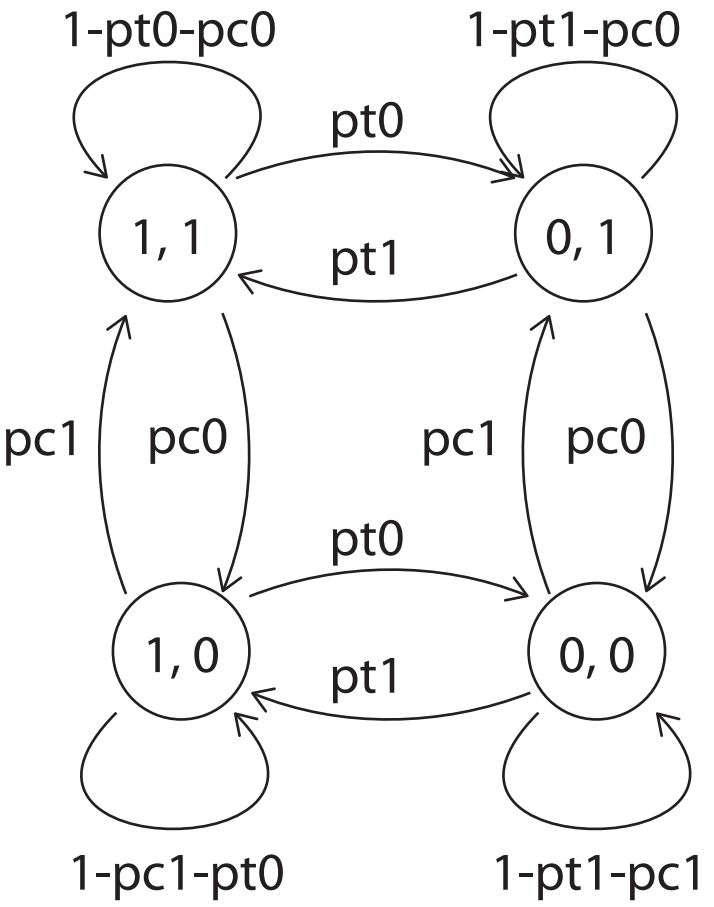
MARKOV CHAIN MODEL OF SWITCH FAILURE



$$P\left(\text{tfail} \in [t, t+dt]\right) = pt0\ dt + \mathcal{O}\left(dt\right)^2$$

$$P\left(\text{cfail} \in [t, t+dt]\right) = pc0\ dt + \mathcal{O}\left(dt\right)^2$$

$$P\left(\text{tfix} \in [t, t+dt]\right) = pt1\ dt + \mathcal{O}\left(dt\right)^2$$

$$P\left(\text{cfix} \in [t, t+dt]\right) = pc1\ dt + \mathcal{O}\left(dt\right)^2$$

pt0 = 0.004 per sec
pt1 = 2.000 per sec
pc0 = 0.001 per sec
pc1 = 1.000 per sec