Simulation Exercise

In source routing the source of the traffic embeds the route in the packet header. In this exercise you will build a small source routed network. The top level model will be composed of two major hierarchical blocks.

1) A traffic source. The traffic source generates traffic for all destinations (both directly connected and reached via the second router) with equal probability. The packets are fixed length with exponentially distributed interarrival times. The length and arrival rates should be set at the top level of the hierarchical model.

2) A 3x3 router that uses source routing. The router has 3 inputs and 3 outputs. The link rates of each output port can be different and should be set at the top level of the hierarchical model.

Build, verify and validate a simulation model for the network given below.