Propagation Delay:

Transmission Delay:

Switch

Delays?
What to do when there is no space in queues?

Time to get across network?
How many packets in transit?

How many packets in the network at a time

- Poisson
- Little's Law

\[
L = \frac{\Delta W}{\text{Service Time}}
\]

# of customers

Assumed rate
Dealing with packet loss
Dealing with packet loss efficiently