

Telecommunication Network

Routing Example

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Routing in a packet-switched network

- Consider a packet-switched network with two distinct classes of data.
- Class 1 is transmitted from source 1 to destination 1. Class 2 is transmitted from source 2 to destination 2.
- Network switches direct packets based on routing tables.
- Each link has a fixed capacity (bandwidth), that is shared by the two classes of information.

Routing in a packet-switched network

- Packets are dropped when a link is congested.
- Dropped packets are chosen randomly from among those that are routed through the link.
- Objective: maximize the total throughput of the network.

Routing in a Packet-Switched Network

