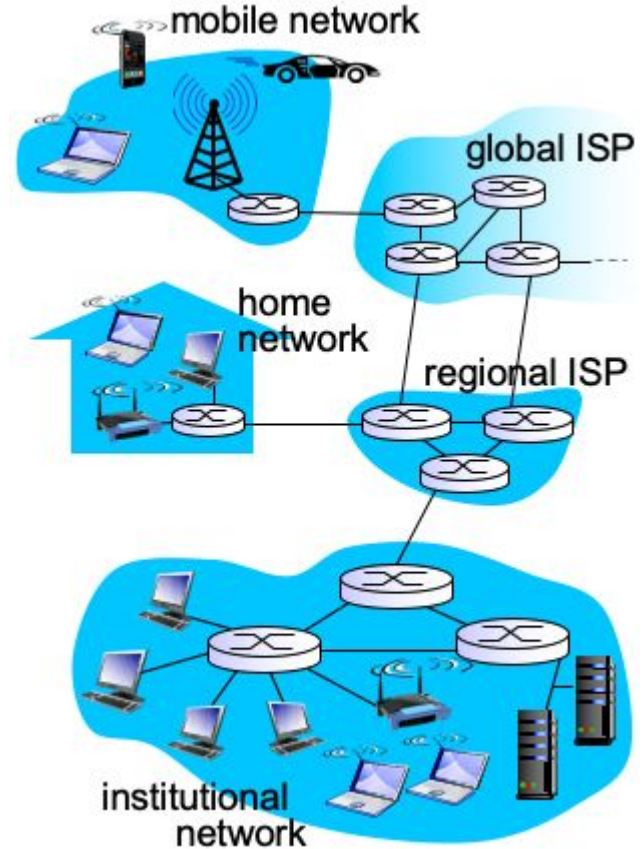

Review lecture 01

— CS5700 Fall 2019 —

Internet structure

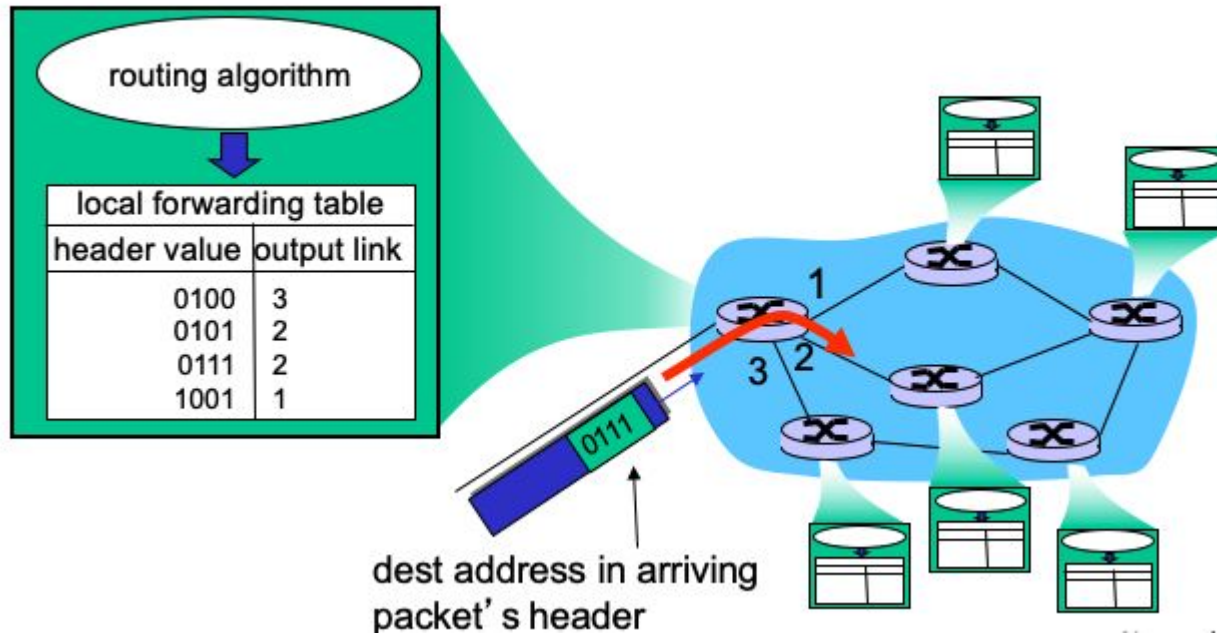
- Network edge
 - Hosts
 - Access network
- Network core
 - Interconnected routers
 - Packet switching



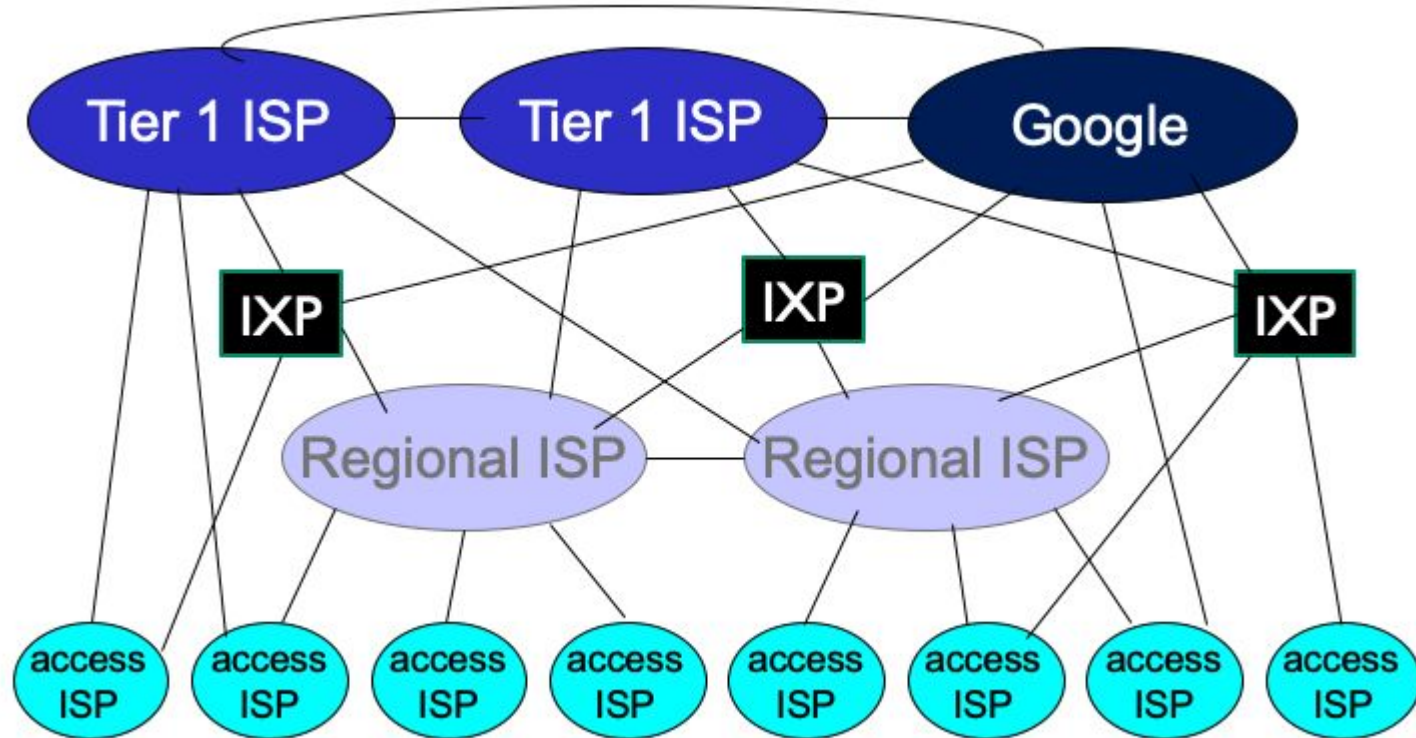
Packet switching

- Break application layer message into packets
- Forward packets from one router to next
- Each packet is transmitted at full link capacity
- Trade-off for better resource sharing

Packet switching

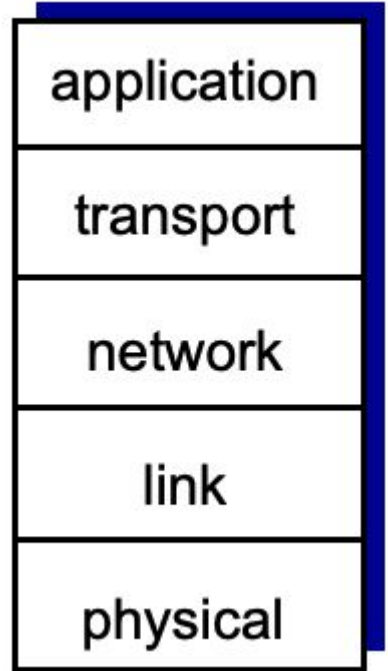


Internet structure

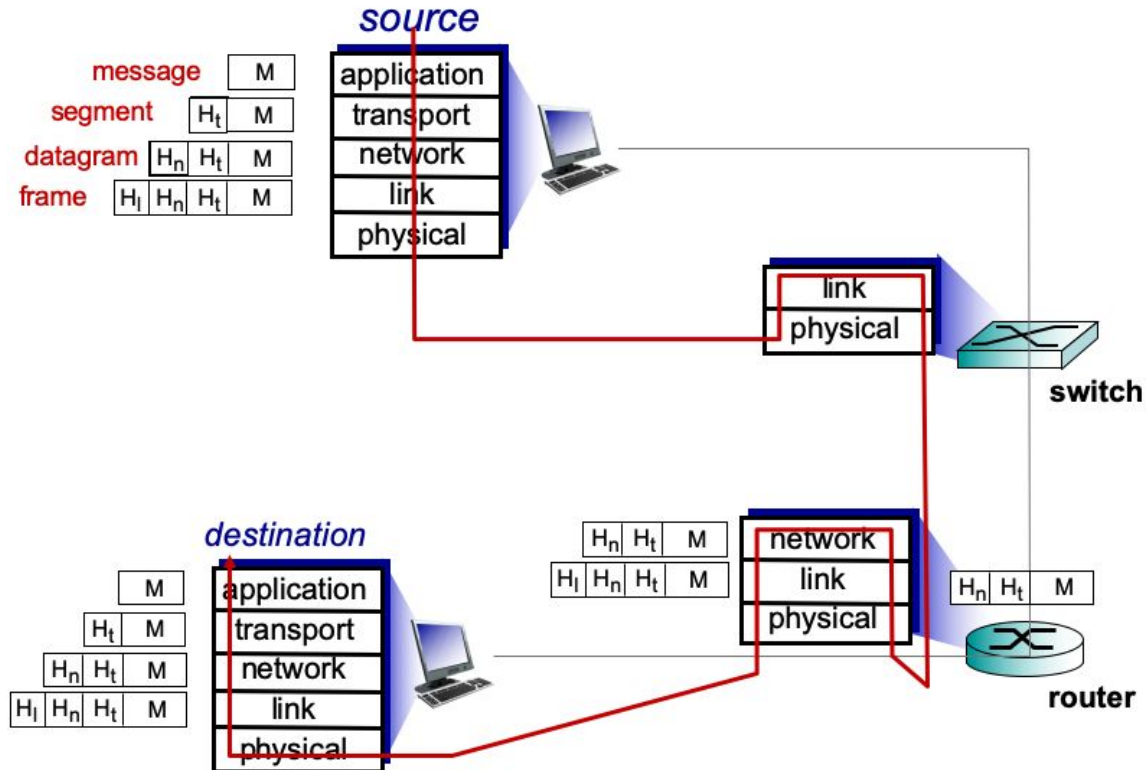


Protocol layering

- Can you state the responsibility of each layer?



Protocol layering



Key metrics

- Delay
 - Processing delay
 - Transmission delay
 - Propagation delay
 - Queuing delay
- Throughput
- Loss