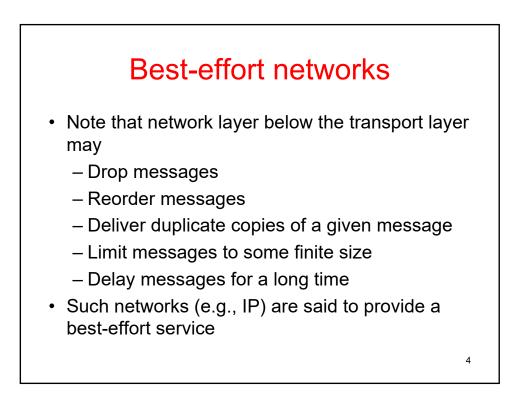


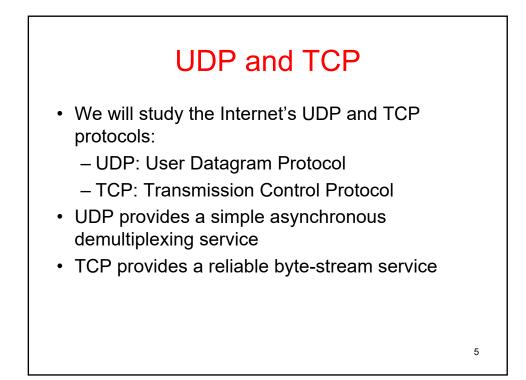
Transport protocols are expected to provide...

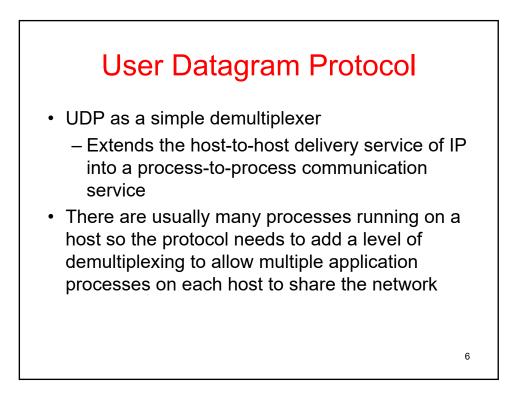
- · Guaranteed message delivery
- In-order message delivery
- Delivery of at most one copy of the message
- · Support for arbitrarily large messages
- Support for synchronization between sender and receiver

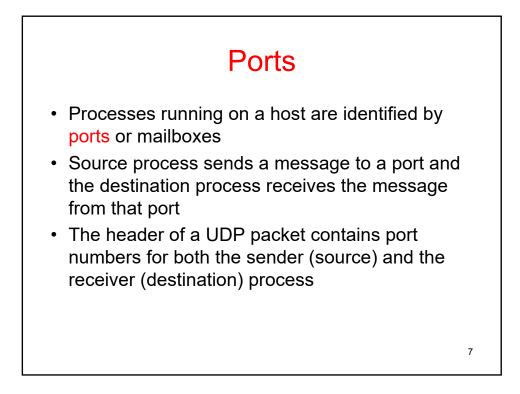
3

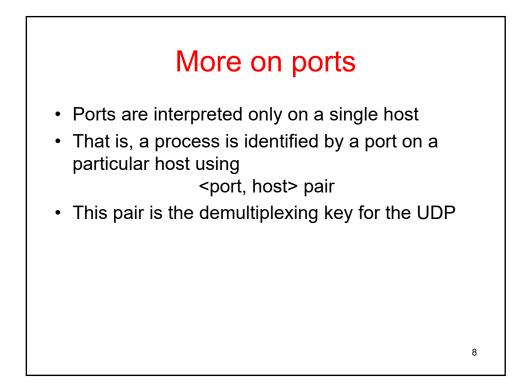
- Flow control
- Support for multiple application processes on each host

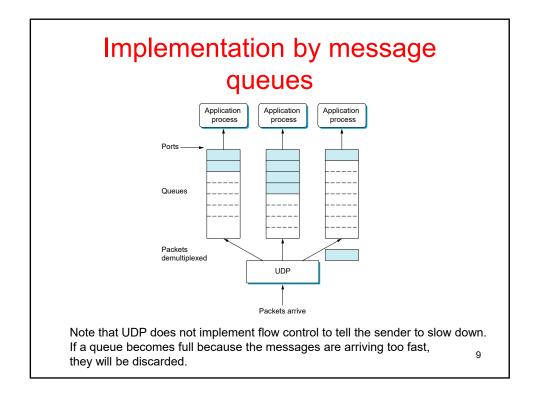


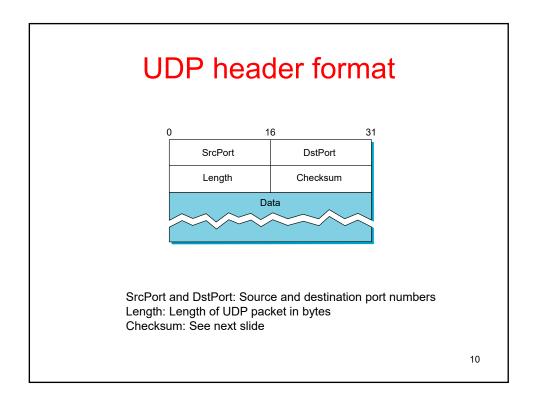


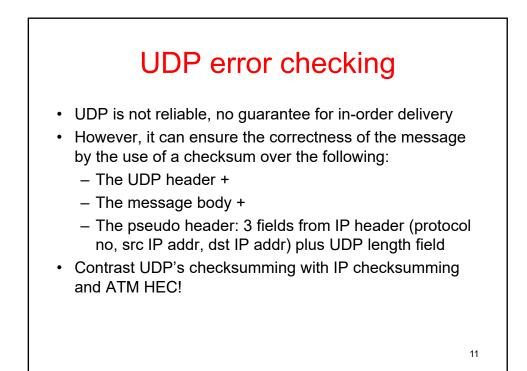


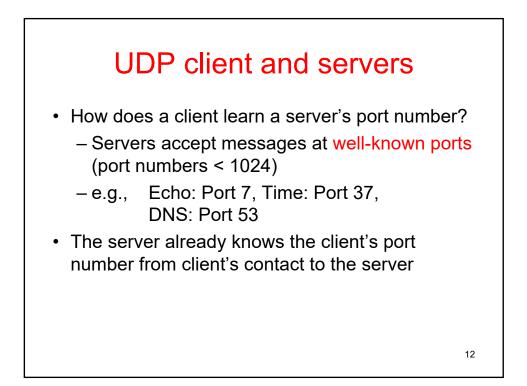


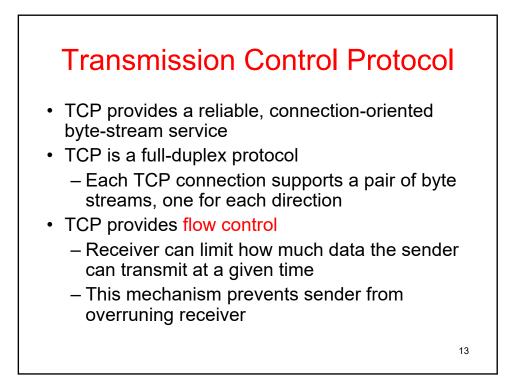


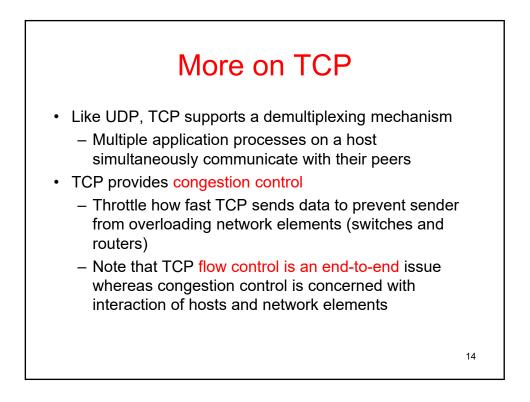


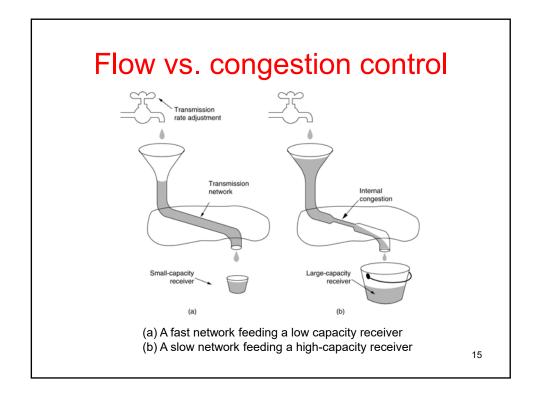


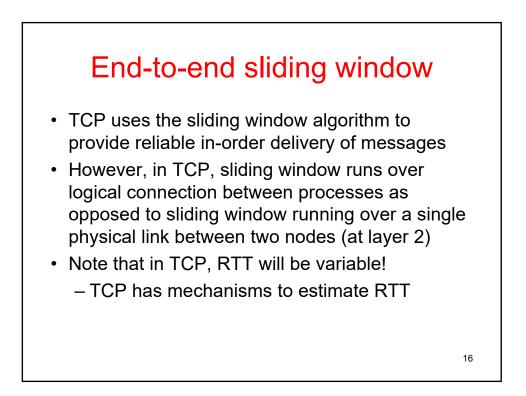


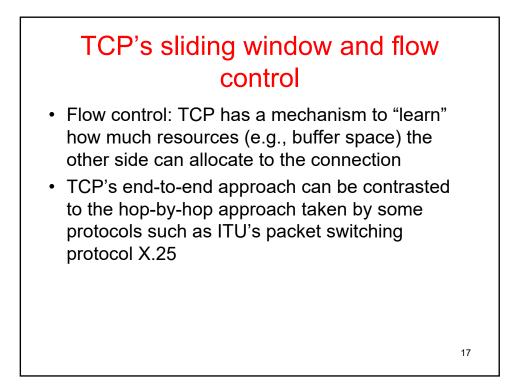


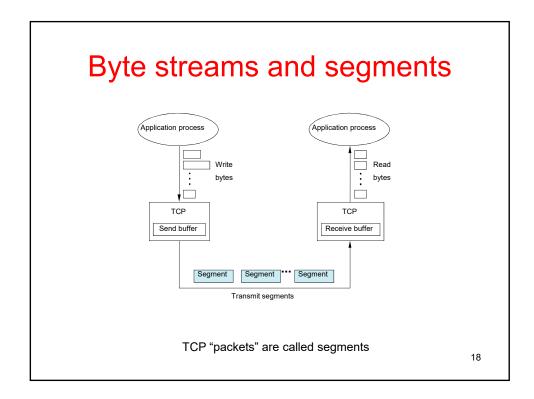


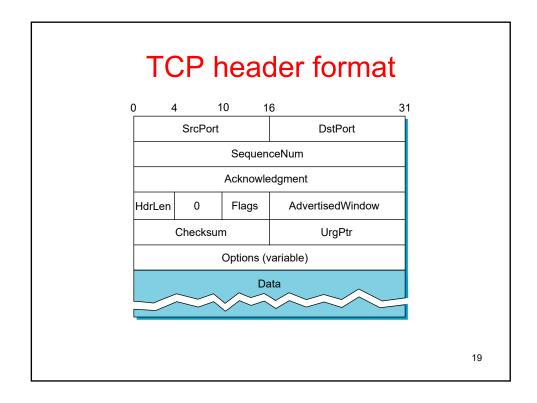


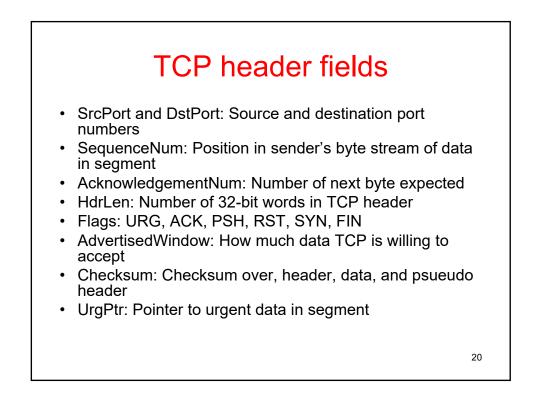












TCP demultiplexing

- The 4-tuple
 <src port, src IP addr, dst port, dst IP addr> uniquely identify each TCP connection
- This 4-tuple is used as the demultiplexing key
- Because TCP identifies a connection by a 4tuple, a given TCP port number can be shared by multiple connections on the same host
 - Multiple connections can exist simultaneously on one local port

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