

Network Protocols

Exploration

Layering

- Why and why not?
- TCP/IP
- OSI
- Models versus implementation

Addressing

- Fixed versus variable
- Size
- Hierarchy
- Assignment

Fragmentation

- MTU discovery
- Where to do fragmentation?

Routing

- Source based versus network based
- Distant-vector versus link-state
- Policy
- Mobility

Error control

- Detection
- Correction
- Cause of errors?
- Link based or end-to-end based?

Flow control

- Implicit versus explicit
- Windowing
- End-to-end versus network control
- Timers and retransmission strategy

Management

- In-band versus out-of-band
- Security and integrity
- QoS/CoS
- Billing