

OSI APP HTTP/s DNS

Presentation

Session

Trans

Net

Data

Physical

friendly
Port

IP

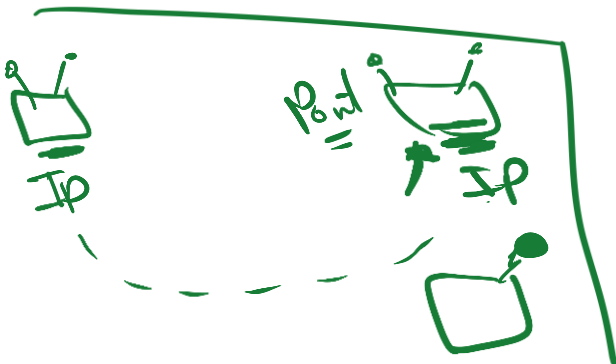
MAC

App → Message
Trans → Segment

Netw → Packet / Datagram

Data → Frame

Phy → Bits



Transport

①

Segment

src Port

SeqID

②

Dst Port



Process-to-Process

Socket
Connection

IP : Port - IP : Port
(80)

③

TCP

UDP

Connection - Control

Conne - or -

Conne - less

④

Flow Control

⑤

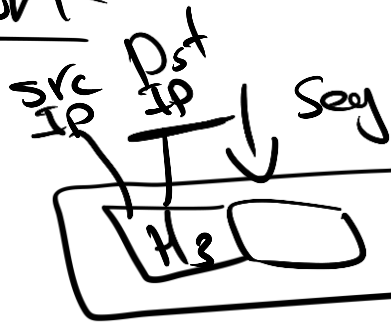
Congestion Control

⑥

Error Control

Network

①

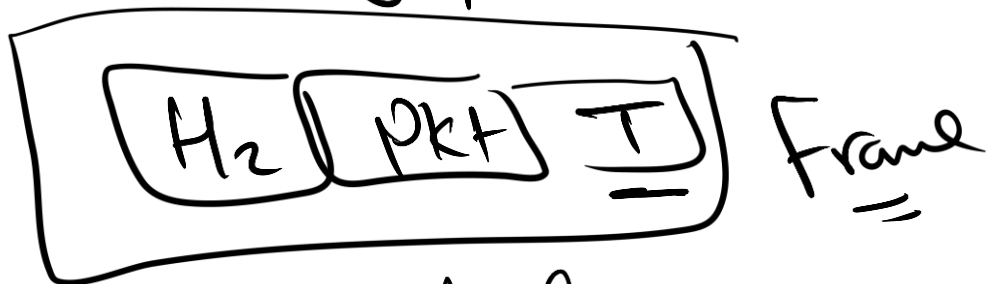


Host-to-Host

② Routing

Data

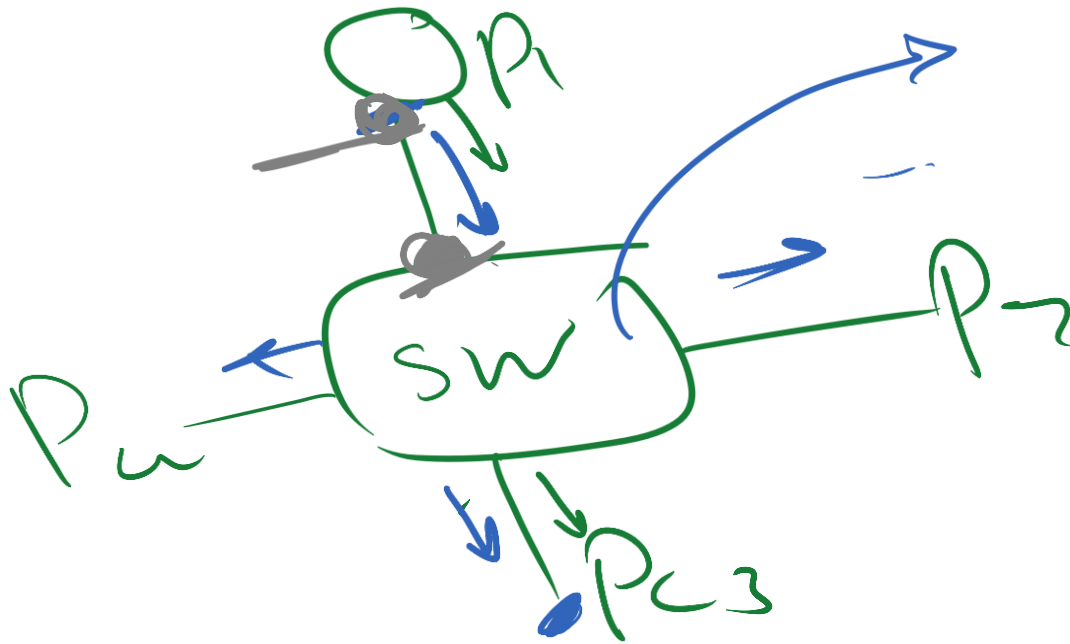
↓ PKT



① Error Control

② Flow Control

③ Hop-to-Hop



switch table

Port	Mac

