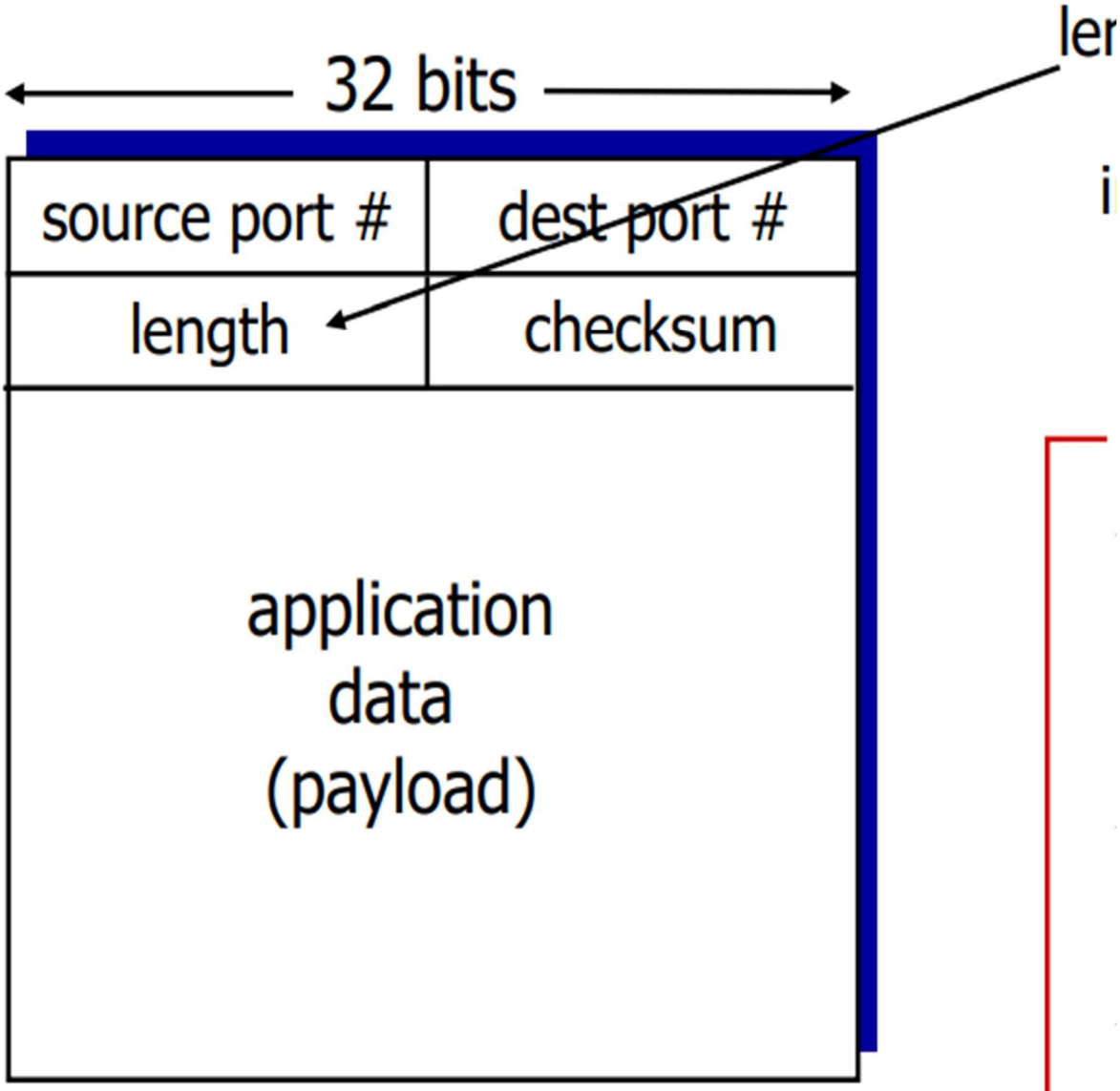
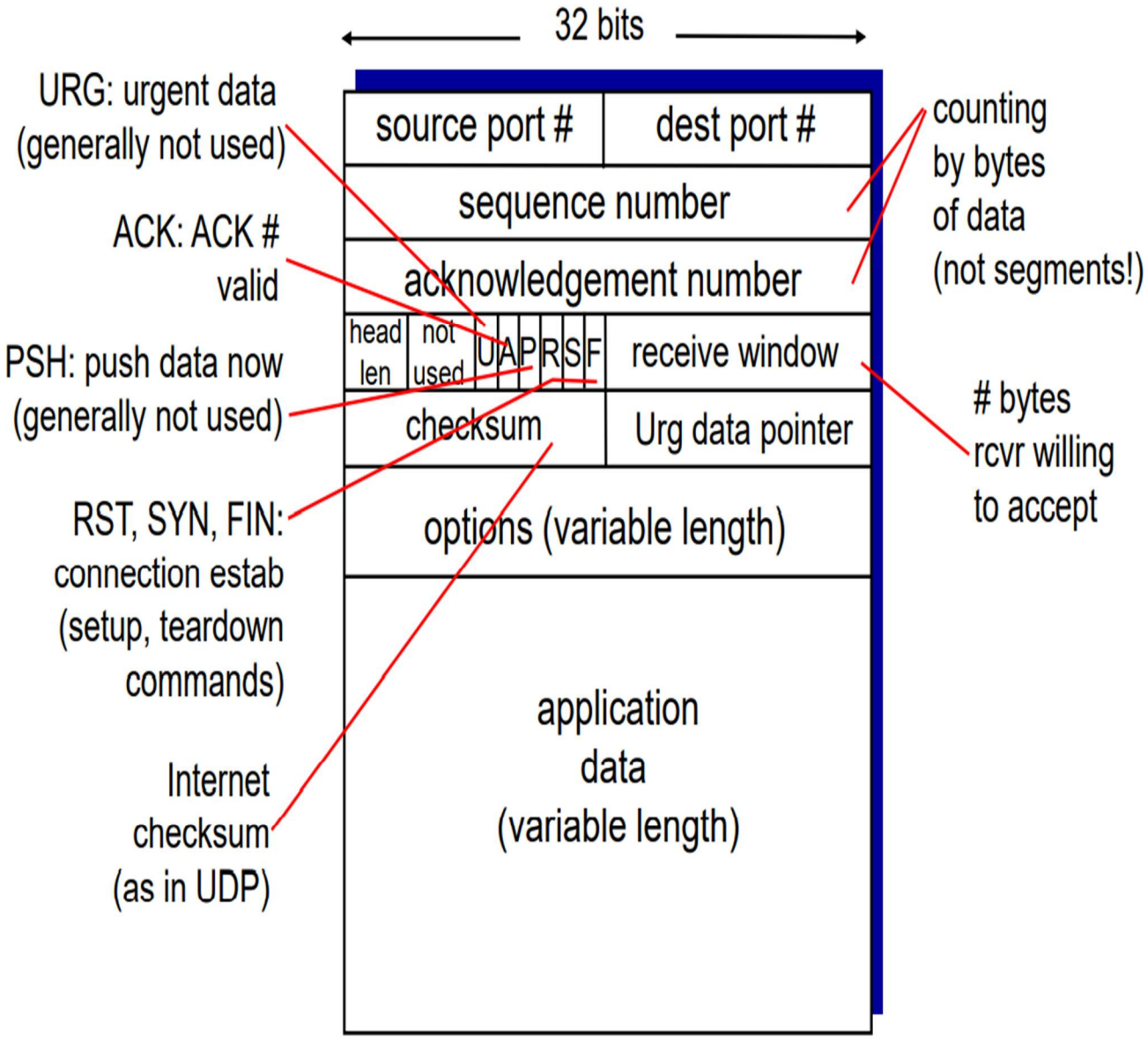
UDP: segment header

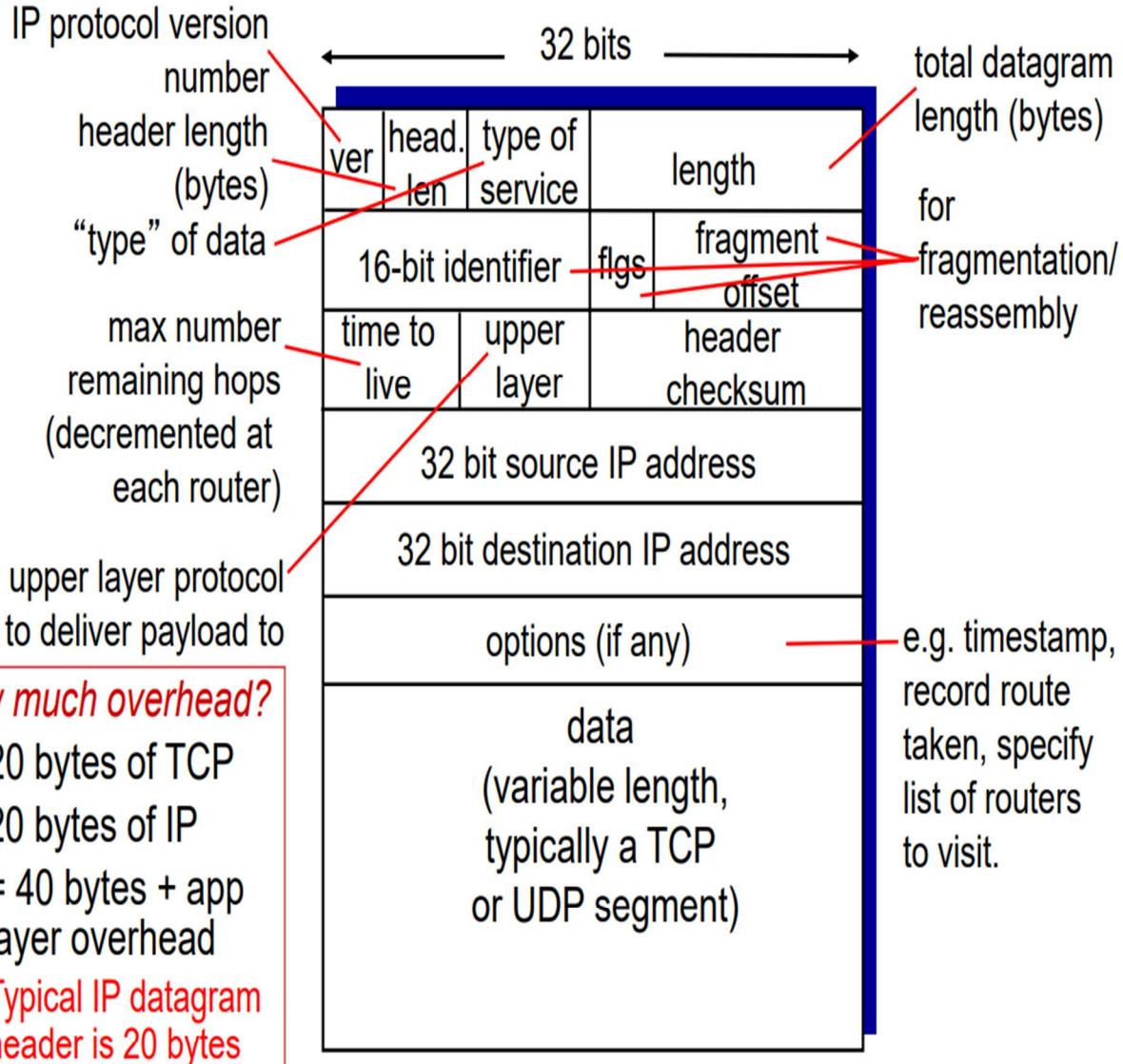


UDP segment format

TCP segment structure



IPv4 datagram format



how much overhead?

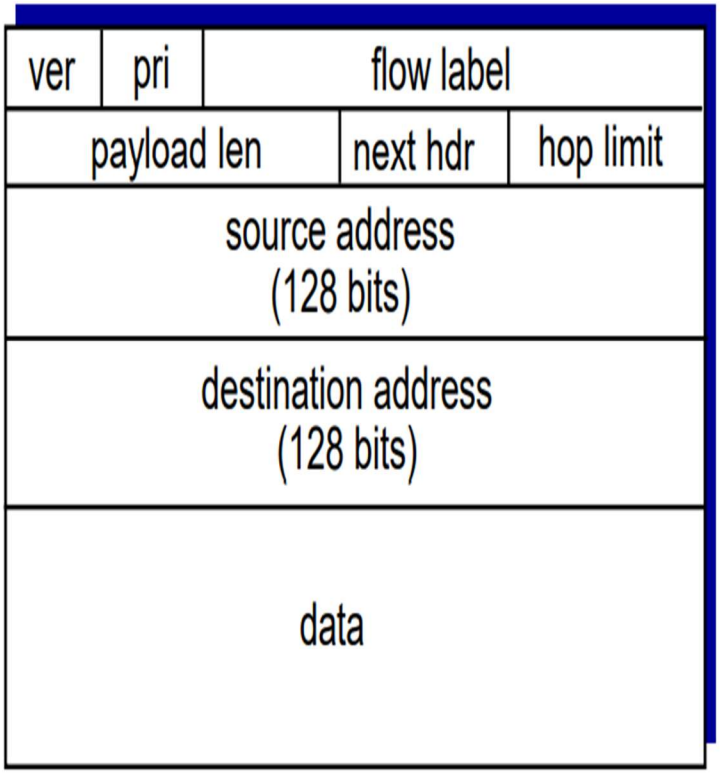
- 20 bytes of TCP
- 20 bytes of IP
- = 40 bytes + app layer overhead
- Typical IP datagram header is 20 bytes (if options not used)

IPv6 datagram format

Priority/traffic class: identify priority among datagrams in flow

flow Label: identify datagrams in same "flow."
(concept of"flow" not well defined).

next header: identify upper layer protocol for data



Ethernet frame structure

sending adapter encapsulates IP datagram (or other network layer protocol packet) in Ethernet frame