

Figure 2.4 TCP/IP Concepts

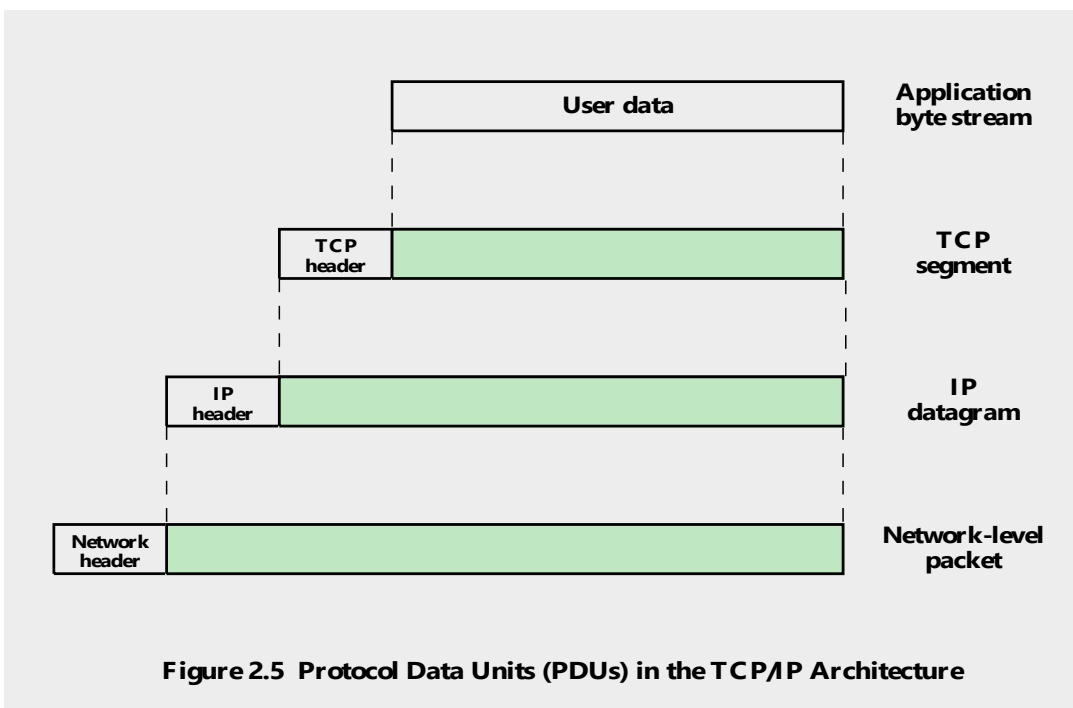
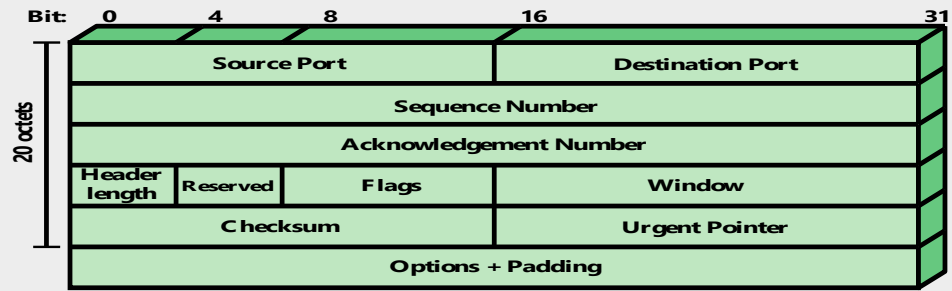
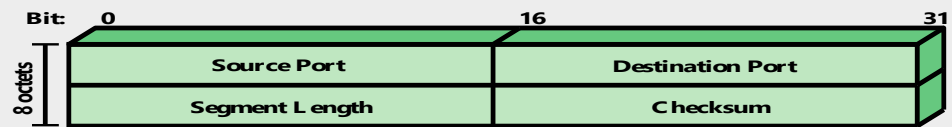


Figure 2.5 Protocol Data Units (PDUs) in the TCP/IP Architecture

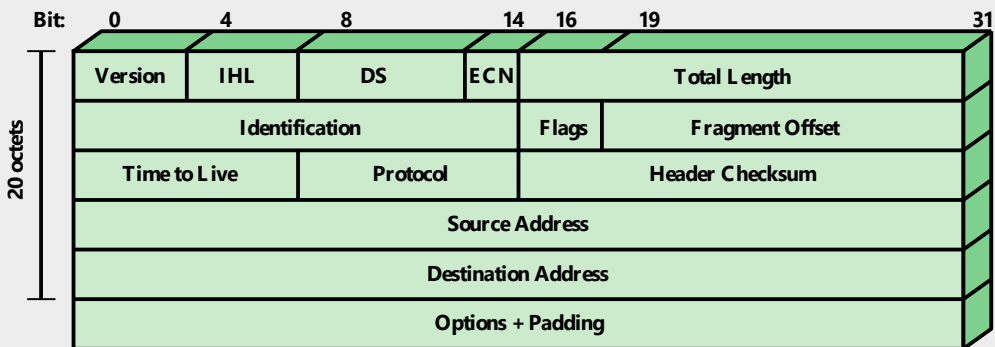


(a) TCP Header

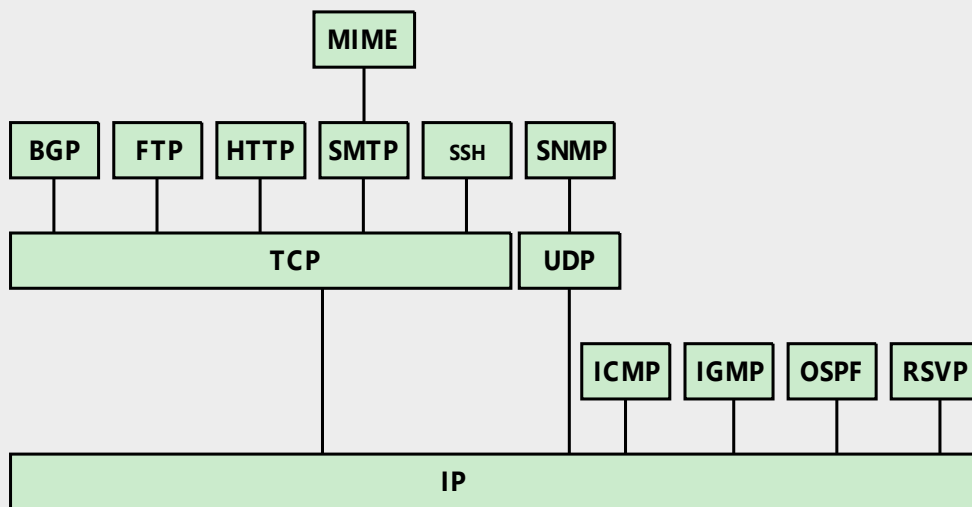


(b) UDP Header

Figure 2.6 TCP and UDP Headers



(a) IPv4 Header



**BGP** = Border Gateway Protocol  
**FTP** = File Transfer Protocol  
**HTTP** = Hypertext Transfer Protocol  
**ICMP** = Internet Control Message Protocol  
**IGMP** = Internet Group Management Protocol  
**IP** = Internet Protocol  
**MIME** = Multipurpose Internet Mail Extension

**OSPF** = Open Shortest Path First  
**RSVP** = Resource ReSerVation Protocol  
**SMTP** = Simple Mail Transfer Protocol  
**SNMP** = Simple Network Management Protocol  
**SSH** = Secure Shell  
**TCP** = Transmission Control Protocol  
**UDP** = User Datagram Protocol

**Figure 2.8 Some Protocols in the TCP/IP Protocol Suite**