



### Version

Version of IP Protocol. 4 and 6 are valid. This diagram represents version 4 structure only.

### Header Length

Number of 32-bit words in TCP header, minimum value of 5. Multiply by 4 to get byte count.

### Protocol

IP Protocol ID. Including (but not limited to):

1 ICMP	17 UDP	57 SKIP
2 IGMP	47 GRE	88 EIGRP
6 TCP	50 ESP	89 OSPF
9 IGRP	51 AH	115 L2TP

### Total Length

Total length of IP datagram, or IP fragment if fragmented. Measured in Bytes.

### Fragment Offset

Fragment offset from start of IP datagram. Measured in 8 byte (2 words, 64 bits) increments. If IP datagram is fragmented, fragment size (Total Length) must be a multiple of 8 bytes.

### Header Checksum

Checksum of entire IP header

### IP Flags

x D M

x 0x80 reserved (evil bit)  
D 0x40 Do Not Fragment  
M 0x20 More Fragments follow

### RFC 791

Please refer to RFC 791 for the complete Internet Protocol (IP) Specification.