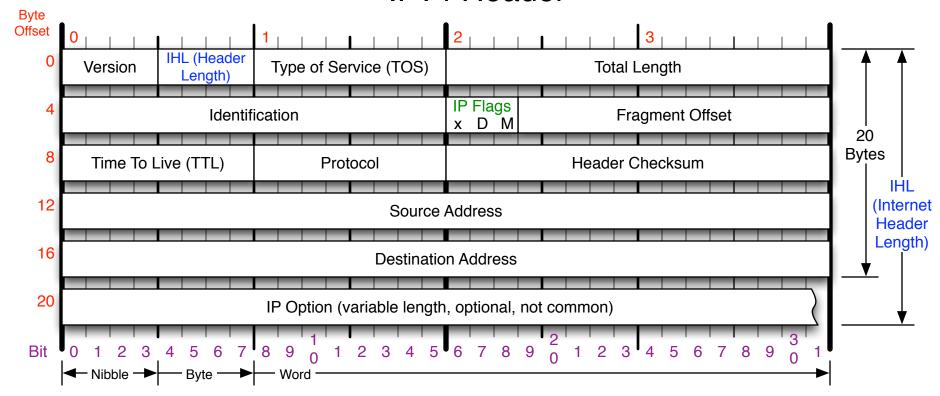
# **IPv4** Header



#### 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 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.