0 4 8 12 16 20 24 28 Unused (2 bits) Total length (16 bits) Version (4 bits) HdrLen TOS / DiffServ CP (4 bits) (6 bits) Fragment Offset (13 bits) Identification Flags (3 bits) (16 bits) Protocol Type (8 bits) Time-to-Live **Header Checksum** (8 bits) (16 bits) Source address (32 bits) Destination address (32 bits) Options (variable) Padding (variable) Data (variable)