Field	Meaning
VERS	Version number of IP being used (4)
HLEN	Header length measured in 32-bit units
SERVICE	Level of service desired
TOTAL LENGTH	Datagram length in octets including header
ID	Unique value for this datagram
FLAGS	Bits to control fragmentation
F. OFFSET	Position of fragment in original datagram
TTL	Time to live (hop countdown)
TYPE	Contents of payload area
HDR CHECKSUM	One's-complement checksum over header
SOURCE	IP address of original sender
DESTINATION	IP address of ultimate destination
IP OPTIONS	Special handling parameters
PADDING	To make options a 32-bit multiple

Figure 3.6 The interpretation of each field in the IP datagram header.