| 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.