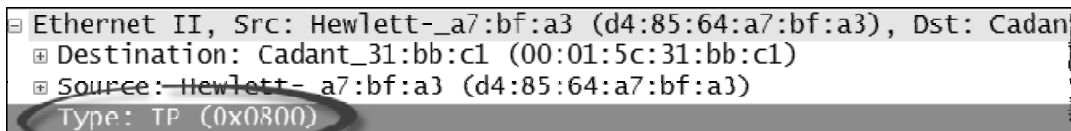## The Ethernet Dissector Takes Over

The Ethernet dissector decodes and displays the fields of the Ethernet II header and, based on the contents of the Type field, hands the packet off to the next dissector. In Figure 27, the Type field value 0x0800 indicates that an IPv4 header will follow. Notice that at this point, when we remove the Ethernet frame from the dissection, we are using the term "packet."
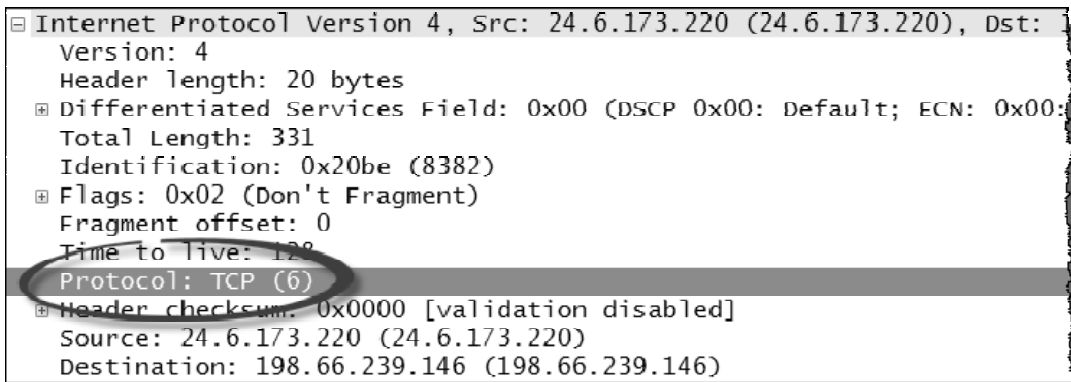
```
□ Ethernet II, Src: Hewlett-_a7:bf:a3 (d4:85:64:a7:bf:a3), Dst: Cadan
  ⊞ Destination: Cadant_31:bb:c1 (00:01:5c:31:bb:c1)
  ⊞ Source: Hewlett- a7:bf:a3 (d4:85:64:a7:bf:a3)
    Type: IP (0x0800)
```

Figure 27. The Ethernet dissector looks at the Type field to determine the next required dissector.
[http-chappellu101.pcapng]

The IPv4 Dissector Takes Over

The IPv4 dissector decodes the fields of the IPv4 header and, based on the contents of the Protocol field, hands the packet off to the next dissector. In Figure 28, the Protocol field value 6 indicates that TCP will follow.

```
□ Internet Protocol Version 4, Src: 24.6.173.220 (24.6.173.220), Dst:
    Version: 4
    Header length: 20 bytes
  ⊞ Differentiated Services Field: 0x00 (DSCP 0x00: Default; ECN: 0x00:
    Total Length: 331
    Identification: 0x20be (8382)
  ⊞ Flags: 0x02 (Don't Fragment)
    Fragment offset: 0
    Time to live: 128
    Protocol: TCP (6)
  ⊞ Header checksum: 0x0000 [validation disabled]
    Source: 24.6.173.220 (24.6.173.220)
    Destination: 198.66.239.146 (198.66.239.146)
```

Figure 28. The IPv4 dissector looks at the Protocol field to determine the next required dissector.
[http-chappellu101.pcapng]