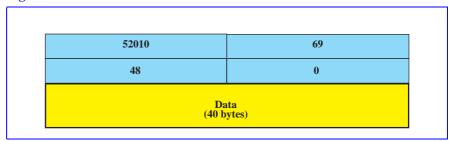
## **CHAPTER 14**

## User Datagram Protocol (UDP)

## **Exercises**

- 1. Reliability is not of primary importance in applications such as echo, daytime, BOOTP, TFTP and SNMP. In custom software, reliability can be built into the client/server applications to provide a more reliable, low overhead service.
- 3. See Figure 14.E3

**Figure 14.E3** *Solution to Exercise 3* 



- **5.** The server would use the IP address **130.45.12.7**, combined with the well-known port number **69** for its source socket address and the IP address **14.90.90.33**, combined with an **ephemeral port number** as the destination socket address.
- 7. Efficiency = (16 bytes of data) / (24 bytes of total length) = 0.666 = 66.6 percent.
- 9. Efficiency = (16 bytes of data) / (72 byte minimum frame size) = 0.222 = 22.2 percent.