Network Programming

Lab 1

Solutions

Initial Capture

- 6 different protocols are visible with the “udp” filter
- Sent 3 packets
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- 0 packets that I sent showed up in the capture

Switching to Loopback

- All 3 packets came through in the loopback

Examining Packet Contents

1. Client-Side port-number: 55706
2. Server Side: 9877
3. Header Size: 8 bytes
4. Application data (for I): 2 bytes
5. One packet: 10 bytes

Internet Checksums

Source IP: 7F 00 00 01
Destination IP: 7F 00 00 01
Protocol: 00 11
Source Port: CB 5E
Destination Port: 26 95
UDP Length: 00 0A (This value is added twice)
Actual Data: 49 0A

Adding all these values up and handling the overflow gives us 3926 in hex
The complement of this is C6D9 which matches the value in Wireshark