By: Matthew Yungbluth and Cameron Richard Kazmierski

Packet format:

The header is 20 bytes, 5 fields each with 4 bytes as ints. They are the type of packet being sent (heartbeat/data), the ackID, the sessID, the payload length, and the sequenceID.

Protocol actions:

Once connected cproxy generates a random session id and sends it to sproxy. Both sproxy and cproxy send each other a heartbeat message every second. If there is a timeout both sproxy and cproxy close their port with each other and try to reconnect. By trying to reconnect cproxy creates a socket and keeps trying to connect to sproxy, sproxy listens for cproxy and accepts when found.

Extra credit:

Not fully implemented

Fully Working:

I believe the program to be fully working