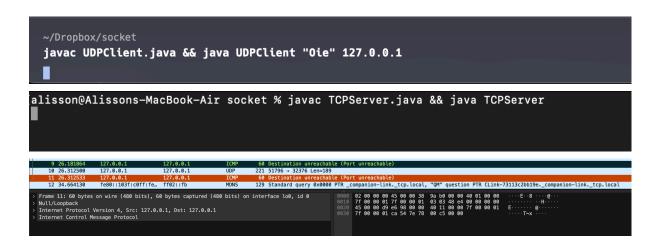
Resultados dos Testes

Cliente UDP → Servidor UDP

Cliente UDP → Servidor TCP

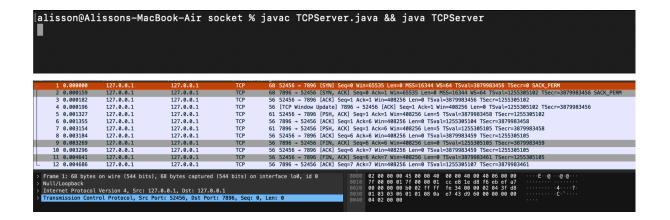


Cliente TCP → Servidor TCP

```
~/Dropbox/socket (0.472s)

yes | javac TCPClient.java && java TCPClient "Oie" 127.0.0.1

Received: Oie
```



Cliente TCP → Servidor UDP



162 4.514054	127.0.0.1	127.0.0.1	TCP	56 62485 → 51102 [ACK] Seq=361 Ack=238 Win=408064 Len=0 TSval=1265972824 TSecr=1236456586
163 4.514149	127.0.0.1	127.0.0.1	TCP	56 62485 → 51102 [FIN, ACK] Seq=361 Ack=238 Win=408064 Len=0 TSval=1265972824 TSecr=1236456586
164 4.514176	127.0.0.1	127.0.0.1	TCP	56 51102 → 62485 [ACK] Seq=238 Ack=362 Win=407936 Len=0 TSval=1236456586 TSecr=1265972824
_ 165 4.804636	127.0.0.1	127.0.0.1	TCP	68 51103 → 7896 [SYN] Seq=0 Win=65535 Len=0 MSS=16344 WS=64 TSval=1870556523 TSecr=0 SACK_PERM
166 4.804690	127.0.0.1	127.0.0.1	TCP	44 7896 → 51103 [RST, ACK] Seq=1 Ack=1 Win=0 Len=0
167 5.014315	127.0.0.1	127.0.0.1	TCP	68 51104 → 62485 [SYN] Seq=0 Win=65535 Len=0 MSS=16344 WS=64 TSval=947106567 TSecr=0 SACK_PERM

Frame 165: 68 bytes on wire (544 bits), 68 bytes captured (544 bits) on interface lo0, id 0 Wull/Loopback Internet Protocol Version 4, Src: 127.0.0.1, Dst: 127.0.0.1 Transmission Control Protocol, Src Port: 51103, Dst Port: 7896, Seq: 0, Len: 0

02 00 00 00 045 00 00 40 00 00 40 00 40 06 00 07 f 00 00 01 7f 00 00 01 c7 9f 1c d3 3c 29 d8 05 00 00 00 00 00 b0 02 ff ff f c3 40 00 00 20 04 3f d8 01 03 03 05 01 01 08 0a 6f 7c 6d 6b 00 00 00 00 04 04 04 20 00 00 00

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Codigo Usado

```
import java.net.*;
import java.io.*;
public class UDPServer {
   public static void main(String args[]) {
       DatagramSocket aSocket = null;
       try {
           aSocket = new DatagramSocket(6789);
           byte[] buffer = new byte[1000];
               DatagramPacket request = new DatagramPacket(buffer, buffer.length);
               aSocket.receive(request);
                if (request.getLength() > 0) {
                   DatagramPacket reply = new DatagramPacket(request.getData(),
                           request.getLength(), request.getAddress(),
request.getPort()); aSocket.send(reply);
                   System.out.println("No data received from client.");
       } catch (SocketException e) {
           System.out.println("Socket: " + e.getMessage());
       } catch (IOException e) {
           System.out.println("I0: " + e.getMessage());
       } finally {
           if (aSocket != null) aSocket.close();
```

```
import java.net.*;
import java.io.*;
public class TCPServer {
    public static void main(String args[]) {
        try {
            int serverPort = 7896;
            ServerSocket listenSocket = new ServerSocket(serverPort);
            while (true) {
                Socket clientSocket = listenSocket.accept();
                Connection c = new Connection(clientSocket);
        } catch (IOException e) {
            System.out.println("Listen :" + e.getMessage());
class Connection extends Thread {
    DataInputStream in;
    DataOutputStream out;
    Socket clientSocket;
    public Connection(Socket aClientSocket) {
        try {
            clientSocket = aClientSocket;
            in = new DataInputStream(clientSocket.getInputStream());
            out = new DataOutputStream(clientSocket.getOutputStream());
            this.start();
        } catch (IOException e) {
            System.out.println("Connection:" + e.getMessage());
    public void run() {
        try {
            String data = in.readUTF();
            out.writeUTF(data);
        } catch (EOFException e) {
            System.out.println("EOF:" + e.getMessage());
        } catch (IOException e) {
            System.out.println("IO:" + e.getMessage());
        } finally {
            try {
                clientSocket.close();
            } catch (IOException e) {
```