

[illegible]

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sequenceDiagram
    participant Client
    participant DS1 as Datagram Socket
    participant DS2 as Datagram Socket (port 23)
    participant ES as ErrorSimulator
    participant DS3 as Datagram Socket
    participant DS4 as Datagram Socket (port 69)
    participant Server

    Client->>Client: Form Request
    Client->>Client: Form Datagram
    Client->>Client: Form Data
    Client->>Client: Extract Message
    Client->>Client: Print file
    Client->>Client: Verify Acknowledge

    Client->>DS1: Send Datagram
    DS1->>DS2: Receive Datagram
    DS2->>DS3: Send Datagram
    DS3->>ES: Form Message
    ES->>DS4: Form Datagram
    DS4->>DS5: Send Datagram
    DS5->>Server: Receive Datagram
    Server->>Server: Extract Message
    Server->>Server: Verify Request
    Server->>Server: Acknowledge Data
    Server->>Server: Write File
    Server->>Server: Form Data
    Server->>Server: Write File
  
```

The diagram illustrates the interaction between the Client, Datagram Sockets, ErrorSimulator, and the Server. The Client initiates the process by sending a Form Request, Form Datagram, and Form Data. It also performs internal actions like Extract Message, Print file, and Verify Acknowledge. The Client sends a Send Datagram to the first Datagram Socket, which then receives a Receive Datagram from the second Datagram Socket (port 23). This socket sends a Send Datagram to the ErrorSimulator, which sends a Form Message to the third Datagram Socket. The third socket sends a Form Datagram to the fourth Datagram Socket (port 69), which then sends a Send Datagram to the Server. The Server receives the Datagram, extracts the message, verifies the request, acknowledges the data, and writes the file. Finally, the Server sends a Form Data message back to the fourth Datagram Socket, which then writes the file.