UDPParent

- verbose: boolean

- testArea: JTextArea

# IPAddress: InetAddress

- readRequest: boolean

- writeRequest: boolean

- readFileName: String

- writeFileName: String

+ print(String arg): void

+ setVerbosity(Boolean verb): void

+ intToByteArray(int a): byte[]

+ generateDataBlock(byte[] data, int blockNumber): byte[]

+ generateAckDatagram(int portNumber, int blockNumber): DatagramPacket

+ generateDatagram(byte[] byteArray, InetAddress IPaddress, int portNumber): DatagramPacket

+ sendDatagram(DatagramPacket packetToSend, DatagramSocket socketToUse): boolean

+ receiveDatagram(DatagramSocket socketToUse): DatagramPacket

+ v(String s): boolean

+ createGUI(): void

+ prompt(): void

+ validateRequestPacket(byte[] byteArray): boolean

+ validateACKPacket(byte[] byteArray, int blockNumber): boolean

+ validateDataPacket(byte[] byteArray, int blockNumber): boolean

+ printDatagram(DatagramPacket p): void

+ readFile(String file): byte[]

+ writeFile(String file, byte[] contents): void

+ promptRequest(): void

+ getReadFileName(): String

+ getWriteFileName(): String

+ getWriteRequest(): boolean

+ setWriteRequest(boolean writeRequest): void

+ getReadRequest(): boolean

+ setReadRequest(boolean readRequest): void

- port23Socket: DatagramSocket

- clientReplySocket: DatagramSocket

- serverConnectionSocket: DatagramSocket

- passthroughPacket: DatagramPacket

ErrorSim

TFTPTransferHandler

- transferSocket: DatagramSocket

- clientRequestPacket: DatagramPacket

- reading: boolean

+ TFTPTransferhandler(DatagramPacket receivedPacket): void

+ isReadRequest(DatagramPacket p): boolean

+ run(): void

- requestListnerSocket: DatagramSocket

+ main(String[] args): void

TFTPServer

TFTPClient

- clientSocket: DatagramSocket

+ createRequestBlock(Boolean readRequest, String filename): byte[]

+ main(String[] args): void

+ main(String[] args): void