

OBJECTIVE-C FOUNDATION CLASSES REFERENCE CARD

Part 4: Network

DHTTPClient

Constants

DHTTP_PORT Default HTTP port
DHC_HEAD HTTP Head request
DHC_GET HTTP Get request

Methods

- init Initialise a HTTP client (def. version: 1.1)
- init :(int) major :(int) minor Init client with version
- free Free the HTTP client
- (DSocket *) socket Return the socket of the client
- (BOOL) sendStartRequest :(int) request :(DURL *) path
 - | Send a HTTP request to the server in the URL
- (BOOL) sendStartRequest :(int) request :(DURL *) path
 - |:(char *) proxy :(int) proxyPort Send request via proxy
- (BOOL) sendHeader :(char *) header :(char *) argument
 - | Send a header after the HTTP request
- (BOOL) sendAcceptLanguageHeader :(char *) languages
 - | Send accept-language header
- (BOOL) sendUserAgentHeader :(char *) agent
 - | Send user accept header
- (BOOL) sendRefererHeader :(char *) referer
 - | Send referer header
- (BOOL) sendConnectionHeader :(char *) connection
 - | Send the nextconnection state: close or keep-alive
- (BOOL) sendEndRequest Send the end of the request
- (BOOL) receiveReply Receive a reply after a request
- (int) reason Get the reason in the reply
- (char *) reasonText Get the reason text in the reply
- (int) peerMajor Return the major version of peer
- (int) peerMinor Return the minor version of peer
- (DText *) header :(char *) header
 - | Get the argument of header in the reply
- (DHashIterator *) headers Get all headers in the reply
- (const unsigned char *) body Get the data in the body
- (unsigned long) bodyLength....Get the length of the body

DTCPServer

Constants

DTS_BLOCKING Connections are blocking
DTS_THREADING.....Connections in a thread

DTS_FORKING Connections in a child process
Methods

- init Init default tcp server
- init :(int) family :(int) prot ... Init and open tcp server
- free Free tcp server
- (DSocket *) socket Return socket of server
- sendFlag :(int) flag Set the send flag
- (int) sendFlag Return the send flag
- recvFlag :(int) flag Set the receive flag
- (int) recvFlag Return the receive flag
- recvLength :(unsigned) length Set the receive length
- (unsigned) recvLength.....Return the receive length
- (BOOL) open :(int) family :(int) prot ... Open tcp server
- (BOOL) start :(int) addr :(int) backlog :(int) mode
 - |:(int) connections Start server, wait for connections
- handleConnection :(DSocket *) peer Handle new connection
- (BOOL) handleRequest :(DData *) request
 - |:(DData *) response.....Handle request from client

DTCPClient

Methods

- init Init default tcp client
- init :(int) family :(int) protocol Init tcp client
- free Free tcp client
- (DSocket *) socket Return socket of client
- (BOOL) isConnected Test for open connection
- sendFlag :(int) flag Set send flag
- (int) sendFlag Return send flag
- recvFlag :(int) flag Set the receive flag
- (int) recvFlag Return the receive flag
- (BOOL) open :(int) family :(int) prot....Open tcp client
- (BOOL) start :(id) address ... Start connection with server
- (DData *) doRequest :(uchar *) request :(unsigned) len
 - |:(unsigned) respLen...Send request and wait for response
- stop Stop connection

DTelNetClient

Constants

DTNC_PORT Default Telnet port
DTNC_IAC Command: Interpret as command
DTNC_DONT Command: Do not use this option
DTNC_DO Command: Do use this option
DTNC_WONT Command: Will not use this option

DTNC_WILL Command: Will use this option
DTNC_SB Command: Start subnegotiation
DTNC_GA Command: Go ahead
DTNC_EL Command: Erase line
DTNC_EC Command: Erase character
DTNC_AYT Command: Are you there
DTNC_AO Command: Abort output
DTNC_IP Command: Interrupt process
DTNC_BRK Command: Break
DTNC_DM Command: Data mark
DTNC_NOP Command: No operation
DTNC_SE Command: End subnegotiation
DTNC_BINARY Option: 8-bit data path
DTNC_ECHO Option: Echo
DTNC_RCP Option: Prepare to reconnect
DTNC_SGA Option: Suppress go ahead
DTNC_NAMS Option: Approximate message size
DTNC_STATUS Option: Give status
DTNC_TM Option: Timing mark
DTNC_RCTE Option: Remote controlled transmission and echo
DTNC_NAOL Option: Output line width
DTNC_NAOP Option: Output page size
DTNC_NAOCRD Option: CR disposition
DTNC_NAOHTS Option: Horizontal tabstops
DTNC_NAOHTD Option: Horizontal tab disposition
DTNC_NAOFFD Option: Formfeed disposition
DTNC_NAOVTS Option: Vertical tab stops
DTNC_NAOVTD Option: Vertical tab disposition
DTNC_NAOLFD Option: LF disposition
DTNC_XASCII Option: Extended ascii character set
DTNC_LOGOUT Option: Force logout
DTNC_BM Option: Byte macro
DTNC_DET Option: Data entry terminal
DTNC_SUPDUP Option: Supdup protocol
DTNC_SUPDUPOUTPUT Option: Supdup output
DTNC SNDLOC Option: Send location
DTNC_TTYTYPE Option: Terminal type
DTNC_EOR Option: End or record
DTNC_TUID Option: TACACS user identification
DTNC_OUTMRK Option: Output marking
DTNC_TTYLOC Option: Terminal location number
DTNC_3270REGIME Option: 3270 regime
DTNC_X3PAD Option: X.3 PAD
DTNC_NAWS Option: Window size
DTNC_TSPEED Option: Terminal speed

DTNC_LFLOW..... Option: Remote flow control
 DTNC_LINEMODE Option: Linemode option
 DTNC_XDISPLOC Option: X Display Location
 DTNC_OLD_ENVIRON Option: Old - Environment variables
 DTNC_AUTHENTICATION Option: Authenticate
 DTNC_ENCRYPT Option: Encryption option
 DTNC_NEW_ENVIRON Option: Environment variables
 DTNC_SERVER Who: server
 DTNC_CLIENT Who: client
ClassMethods
 + (char *) commandToString :(uchar) command
 | Convert command to a string
 + (char *) optionToString :(int) option
 | Convert an option to a string
ObjectMethods
 - init Init a telnet client
 - free Free the telnet client
 - (DSocket *) socket Return the socket of the client
 - (BOOL) isConnected Check for connection with server
 - (BOOL) option :(int) who :(int) option
 | Check state of option
 - (BOOL) open :(id) server Open connection to server
 - (BOOL) close Close connection to server
 - (BOOL) requestOpenNegotiation :(int) who :(int) option
 |:(BOOL) state .. Put open negotiation request in send buffer
 - (BOOL) requestSubNegotiation :(int) option
 | Put sub negotiation request in send buffer
 - (BOOL) respondSubNegotiation :(int) option
 |:(char *) data :(int) length
 | Put sub negotiation response in send buffer
 - (BOOL) respondNegotiation :(int) who :(int) option
 |:(BOOL) accepted.. Put negotiation response in send buffer
 - (BOOL) AYT Put Are You There in send buffer
 - (BOOL) sendText :(const unsigned char *) text
 | Put normal text in send buffer en send buffer to server
 - (BOOL) pendingRequests
 | Check for pending messages in send buffer
 - (BOOL) pendingNegotiations . Check for pending negotiations
 - (DData *) receive Receive data from server
 - (BOOL) receive :(DData *) response
 | Receive data from server
 - (BOOL) processSpecialCommand :(unsigned char) command
 | Process commands received from server (to be overridden)
 - (BOOL) processOpenNegotiation :(int) who :(int) option
 |:(int) state.. Process received open negotiation (override)

- (BOOL) processResponseNegotiation :(int) who
 - |:(BOOL) accepted :(int) option
 - | Process received negotiation response (to be overridden)
- (BOOL) processRequestSubNegotiation :(int) option
 - | Process received sub negotiation request (to be overridden)
- (BOOL) processResponseSubNegotiation :(int) option
 - |:(char *) data :(int) length
 - | Process received sub negotiation response (to be overridden)

DUDPServer

Methods

- init Init default udp server
- init :(int) family :(int) prot...Init and open udp server
- free Free udp server
- (DSocket *) socket Return socket of server
- sendFlag :(int) flag..... Set the send flag
- (int) sendFlag Return the send flag
- recvFlag :(int) flag..... Set the receive flag
- (int) recvFlag.....Return the receive flag
- recvLength :(unsigned) length Set the receive length
- (unsigned) recvLength.....Return the receive length
- (BOOL) open :(int) family :(int) prot...Open udp server
- (BOOL) start :(id) addr..... Start server, blocking
- (BOOL) handleRequest :(DData *) request
 - |:(DData *) response.....Handle request from client

D UDPClient

Methods

- init Init default udp client
- init :(int) family :(int) protocol Init udp client
- free Free udp client
- (DSocket *) socket Return socket of client
- sendFlag :(int) flag Set send flag
- (int) sendFlag.....Return send flag
- recvFlag :(int) flag..... Set the receive flag
- (int) recvFlag.....Return the receive flag
- (BOOL) open :(int) family :(int) prot... Open udp client
- (BOOL) start :(id) address Start connection
- (DData *) doRequest :(id) server :(uchar *) request
 - |:(unsigned) len :(unsigned) respLen
 - | Send request and wait for response
- stop.....Stop connection

DURL

Methods

- init Init empty url
- init :(char *) url Init with url
- freeFree url
- deepenDeepen a copied url
- (char *) schemeReturn the scheme in the url
- (char *) protocolReturn the protocol in the url
- scheme :(char *) schemeSet the scheme in the url
- (char *) userReturn the user in the url
- user :(char *) userSet the user in the url
- (char *) passwordReturn the password in the url
- password :(char *) passwordSet the password
- (char *) hostReturn the host in the url
- host :(char *) hostSet the host in the url
- (int) portReturn the port in the url
- port :(int) portSet the port in the url
- (char *) pathReturn the path in the url
- path :(char *) pathSet the path in the url
- clearClear the url
- (DText *) urlReturn the url
- (BOOL) url :(char *) urlSet the url
- (BOOL) url :(char *) url :(DURL *) ref
 - | Set url with reference url
- (int) fromString :(char **) cstr
 - | Read url from string
- (DText *) toTextConvert url to text string