LightFTP Server

Implementation overview

- concurrent server
 - master process daemon
 - slave process forked process
- wrappers
 - CSocket class
- services CFTPClient class
 - command handlers
 - DTP functions
- logging syslog facility

CFTPClient

- command and data sockets
- file descriptor
- handlers
 - command arguments
 - send replys
 - transfer done in main loop
- main loop
 - select on data and command sockets
 - some replys

Command handlers

- data structure
 - code
 - help message
 - callback
- callback
 - entire command
 - command argument
- replys
 - format strings for sprintf()

Authentication

- effective user id BSDs geteuid()
- shadow passwords root
- enryption crypt
- "\$1\$xxxxxxxxx\$" sequence taken from passwd

File and directory handles

- process working directory
- access control enforced by OS
- umask
- transfer
 - done in main loop
 - correction functions for ASCII

Future work

- complete implementation
- revised replys
- security
- no-priviledged authentication