HDOS FTP Reference Manual

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Introduction

This document describes details of an implementation of Networking on HDOS using a simplified version of "ftp" designed for HDOS and use with CP/NET servers. As such, the program operates as a network-oriented command shell.

If "ftp" is invoked with a hex number argument, it will begin by performing an "open" command for that argument (the remote server network ID). In either case, "ftp" then prompts the user for commands.

Commands must be entered in lower-case. Arguments are generally not case-sensitive. The command "help" will display a list of available commands.

The "status" commands shows the current status of the "ftp" session. This includes the remote connection status as well as the local current HDOS device.

Commands

open sid

Opens a connection (socket) to the specified server ID, designated as a hexadecimal number between 0 and FE. The server ID must have been set-up in the network configuration (e.g. see **wizcfg** for WIZnet networks). There must not be a connection open.

close

Close the current connection. This must be done in order to open a new connection (e.g. to a different server).

quit

Quit ftp, closing any connection.

cd drive

Change the remote drive. Since remote servers are CP/NET, *drive* is designated using CP/M nomenclature A: through P:. Default is A:. Resets to default on opening a connection.

lcd device

Change the local HDOS device. Default is SY0:. Resets to default on opening a connection.

status

Display connection status, including current remote drive and local HDOS device.

dir [pattern]

List remote files on current remote drive, filtered by *pattern*.

ldir [pattern]

List local files on current HDOS device, filtered by *pattern*.

size file

Show size of (remote) file, in 1K resolution.

get remote-file [local-file]

Download *remote-file*, optionally renaming to *local-file*. If *remote-file* contains wildcards then *local-file* is not allowed. Local files are overwritten without warning.

put local-file [remote-file]

Upload *local-file*, optionally renaming to *remote-file*. If *local-file* contains wildcards then *remote-file* is not allowed. Remote files are overwritten without warning.

Note that commands which operate on multiple files (including "ldir") require memory to store the file list. If a directory contains an excessive number of files, there may not be enough memory for the list. The size of the list may be reduced by using a wildcard pattern to limit the number of files.

WIZCFG

For information on using WIZCFG and the WIZnet module, see:

https://github.com/durgadas311/cpnet-z80/blob/master/doc/CPNET-WIZ850io.pdf

The HDOS version of WIZCFG does not support CP/NET client device maps or MP/M Server setup.

Note that the WIZnet chip will lose it's configuration on RESET (in addition to power off). For this reason, the configuration is stored in NVRAM and the command "WIZCFG R" is used to restore the configuration to the WIZnet chip after booting HDOS.

In order for a server to be reachable, it must have a WIZnet socket configured with the necessary TCP/IP connection information. A maximum of 8 sockets (servers) may be configured in the WIZnet, at any given time. Also note that firewalls, routers, etc. must be configured to pass the traffic. This is generally done based on TCP/IP port numbers.

CP/NET Servers

For information on setting up a CP/NET Server, see:

https://github.com/durgadas311/cpnet-z80/blob/master/doc/CpnetSocketServer.pdf

Note that this version of "ftp" does not support network printers, or network booting. The JAR file for the server is located here:

https://github.com/durgadas311/cpnet-z80/blob/master/contrib/CpnetSocketServer.jar