FTPSERVER

FTPServer implements a simple PUP FTP server protocol for a Xerox workstation. The server is typically run as a background process on one machine to allow other machines remote access to the files on its disk.

Requirements

Ethernet connection to a remote host.

Installation

Load FTPSERVER .LCOM from the library.

Functions

(FTPSERVER *FTPDEBUGLOG*) [Function]

Creates a process named FTPSERVER that listens on the standard PUPFTP server socket for incoming connection requests. When one arrives, FTPSERVER services it, then returns to its listening state. The process continues to run until killed.

If *FTPDEBUGLOG* is non-NIL, it should be an open file/stream to which tracing information is printed during the life of the process.

If *FTPDEBUGLOG* is T, output goes to a newly created window. *FTPDEBUGLOG* can also be a REGION, specifying where the window is to be created.

FTPSERVER.DEFAULT.HOST [Variable]

Initially DSK. This is the default host for files requested of the server via FTP. Setting this to FLOPPY, for example, would serve files off the machine's floppy drive.

Note: FTPSERVER.DEFAULT.HOST can also be set to the name of a remote host, but this has limited utility, as it does not handle passwords correctly.

Limitations

The current implementation is a simple tool which allows file transfer between Xerox machines and supports only one remote connection at a time. Because of this, files cannot be loaded indirectly, i.e., via the filecoms of another file.

For example, suppose FOO loads BAR which loads WOO. When FOO is being loaded, it will attempt to load BAR. But FTPServer cannot support the second connection

required to load BAR while the first connection is still open to load FOO. (This is similar to the case of trying to load FOO and BAR when they are on different floppies.)

Therefore, you should load files in an order that prevents recursive loads: in this example, load WOO, then BAR, then FOO.

Delete (DELFILE) operation is now supported. Rename (RENAMEFILE) operation is not implemented. FTPServer is best suited for simple COPYFILE operations.

Examples

An alternative way of specifying the host from the remote machine is to make the host name be the "device" field of the file name specification.

For example, if machine M is running FTPServer, another machine could ask for directory of {M}FLOPPY:FOO.* to get a listing of M's {FLOPPY}FOO*.

To address your host, you may use the results of ETHERHOSTNAME. If on your host (ETHERHOSTNAME NIL T) evaluates to 123#456#, then on a remote machine you can access file FOO on the host by:

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{123#456#}FOO
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