DRAFT. EXPECT SOME OMISSIONS AND INACCURACIES

NFTP : New File Transfer Protocol Client Version 0.72
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Home page of NFTP. Check it for new versions, updates etc.

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INTRODUCTION

NFTP is a text-mode ftp client for OS/2. Comparing to popular ncftp, it has a number of enhancements:

- remote directory view is fully scrollable with minimum keystrokes required;
- remote directory contents is cached during one session - you'll never have to wait for retrieving the same listing;
- marking files for download/upload: you don't need to type filenames at all;
- remote file viewing is more simple and intelligent, and viewed files are cached as well;

- you can see client-server negotiation (even complete history during all run);
- NFTP has batch progress indicator (you see how long will take entire operation if more than one file was selected to transfer);
- file selection is simple and allows to view remote files while marking others to transfer;
- you can skip files during transfer while continuing to download/upload the rest;
- you can mark files in different directories and then retrieve them all;
- you can sort remote directories by name, size, date/time.

The biggest advantages over majority of PM ftp clients (like FTP-PM, sftp etc.) are the ability to 'reget' (continue transfer after interruption), speed of simple and effective text-mode interface, small memory requirements.

In my opinion, LW-FTP while being very elegant is useless due to big overhead of Workplace Shell object creation/deletion.

The drawback, however, is that NFTP isn't free as ncftp. But registration fee is only US$ 20 -- and you'll get all future versions and support by e-mail at this price! See registration details below.

INSTALLATION

1. Requirements are
   - OS/2 2.x or later;
   - TCP/IP stack: IBM TCP/IP 2.0 for OS/2, OS/2 Warp Connect, OS/2 Warp Internet Access Kit;
   - HPFS formatted drive to be able to download files which are not 8.3-compliant.
   - In addition, you also have to install emx runtime package. If you don't have it installed, file "emx.dll" is supplied with this version of NFTP. Copy it into any directory listed in your LIBPATH. The latest version of emx runtime support package can be found at the following ftp servers:
     ftp.uni-stuttgart.de:/pub/systems/os2/emx-0.9b/emxrt.zip
     ftp.sai.msu.su:/pub/os2/programming/emx-0.9b/emxrt.zip
     Instructions on installing it can be found in emxrt.zip archive.
2. Installation.

   Unpack archive nftp*.zip into some directory and run `install.cmd`. After answering some questions necessary files will be copied to the directory you specified and your WPS desktop will hold two new objects -- "NFTP" (executable) and "NFTP Manual". You probably already done that because you're reading that "NFTP Manual"!

   If you want to install NFTP by hand (without `install.cmd`), copy all files into the directory of your choice (eg, "d:\apps\tcpip\nftp"), load nftp.ini into your favourite ASCII text editor (eg, TEDIT shipped with Warp) and insert your e-mail address (it will be used as a password for anonymous logins) at the appropriate place (line

   ```
   anonymous-password="your-e-mail-address"
   ```

). I also suggest to decide where you will keep your bookmarks and transfer history and set corresponding variables accordingly. If you like to launch programs from desktop, create program object for NFTP. Put supplied nftp.mrk file into the directory which you've chosen in nftp.ini.

The language NFTP uses is determined by environment variable `NFTP_LANG`. It should be set to the name (without extension) of corresponding DLL file. E.g., if you want to use Japanese version, you should use

```
set NFTP_LANG=japanes
```

This statement can be put to `config.sys` or to the batch file invoking nftp (`install.cmd` does exactly this). If you only need English version you may omit this variable.

`install.cmd` creates Workplace shell object to run NFTP. This feature can be useful even you are die-hard command-line user (see below). NFTP can run in a fullscreen session or in a VIO window. Installation script sets it to run in a window, and window will not be closed automatically after exit -- this can help to diagnose problems. Turn it off when everything works as expected.

QUICK START

After installation, run `nftp.exe` (from command line or WPS object). If you're launching NFTP from WPS object created by installation script you will be asked to enter "FTP server to log in"; simply press `ENTER` now. You should see list of bookmarks on the screen. Use cursor keys to select one of them and press `ENTER`. If everything is set up correctly, you'll see client-server negotiation and then finally list of files and directories on the ftp server you've chosen. Hit `SPACE` to view control connection window (and it is scrollable!), `TAB` to view local files/directories. Return to remote directory view by pressing space/tab another time. Move pointer with cursor keys, press `ENTER` on a directory to enter it. Select files to download with `INSERT` or simply press `F5` to transfer single file. To upload file to server, switch to local files view (with `TAB`), select file(s) and press `Shift-F5`. To view local or remote file, move pointer to it and press `F3` (of course, remote file will be downloaded first -- that will probably take some time). Navigating in the viewer is simple and intuitive: scroll file with cursor keys. Press `F10` to log off and exit NFTP.

USAGE: LAUNCHING NFTP

You often already know where the file you need right now is located. Let's suppose, say, you want to retrieve *RFC 959* from

```
src.doc.ic.ac.uk:/pub/rfc/
```

Launch nftp in the following fashion:

```
nftp  src.doc.ic.ac.uk:/pub/rfc
```

or

```
nftp  src.doc.ic.ac.uk/pub/rfc
```

After logging in into src.doc.ic.ac.uk nftp will change directory for you to `/pub/rfc`. You will then locate required file and download it.

The command line format for NFTP is:

```
nftp [hostname[[:[port]]directory]   [userid]
```

"hostname" is the name of ftp server ('src.doc.ic.ac.uk' in the above example), ":" can be omitted, "directory" is remote directory ('`/pub/rfc`' in the above example), "port" is port number (don't use it if you don't know what's it). If you have an account on ftp server (i.e. you're not anonymous user), you can specify your userid in the command line. You will be asked for a password. An important note -- there shouldn't be any spaces between hostname and directory! Another examples are:

```
nftp private.crlf.net:7500/users    (nonstandard port)
nftp ftp/pub                        (domain suffix omitted)
nftp 128.128.128.128:/mydir         (IP number instead of host name)
nftp lnfm1.sai.msu.su/home/asv asv  (login with explicit directory and real pa
```

Specifying directories in a command line is a pretty useful feature: when you've found some reference, paste it directly into the command line (e.g., *File Commander/2 1.4* allows this) and you'll get right into the place without typing anything except `Ctrl-Ins` and `Shift-Ins`! Note that it's impossible to specify *filename* on the command line -- use directory name, not file name (i.e. `/pub/rfc` instead of `pub/rfc/rfc959.txt.gz` in the above example).

NFTP will try to use any text mode you have set before starting it. Modes with 80 columns work rather good, but do not expect this from 132-col or other modes.

USAGE: LOGGING IN AND OUT

NFTP has several ways to choose ftp server. First of all, you can specify it on the command line as an argument (see previous chapter, "USAGE: LAUNCHING NFTP"). Second, you can put server's hostname into the bookmark list if you frequent this site. Third, you can open it manually -- press `Ctrl-L` (for anonymous login) or `Ctrl-N` (for named login). *to be continued*

USAGE: NAVIGATING REMOTE SITE AND LOCAL DIRECTORIES

USAGE: TRANSFERRING FILES

USAGE: CUSTOMIZING NFTP

Almost all customization is done through NFTP.INI. This file usually resides in the same directory as NFTP.EXE itself. However, you can also place it into PATHed directory or current directory.

The file NFTP.INI is plain ASCII file and can be edited with any ASCII editor (e.g., "System Editor" or "TEDIT"). Lines starting with semicolon ";" are comments; empty lines are ignored. The file itself holds comments about configuration and parameter meaning.

Note that only one entry in NFTP.INI is required -- your e-mail address (`anonymous-password`). All other fields are commented by default (installation script sets `log-transfers-name` and `bookmarks-file`). Do not forget to remove leading ";" when doing customizations.

To get rid of overhead of parsing of text initialization file, NFTP converts NFTP.INI into NFTP.BIN. This operation is done only when necessary (i.e. when NFTP.BIN does not exist or older than NFTP.INI). Conversion is fully automatic and done by NFTP-OPT. Please note that file NFTP-OPT.EXE should be placed into the same directory as NFTP.INI or into the directory listed in PATH environment variable. In general, you shouldn't worry about it.

Below is a complete explanation of all parameters in NFTP.INI. Parameters can be of one of three types: integer, boolean and string. Integer values are represented by integers :-) and can be prefixed by sign. Boolean values can be specified as "0", "n", "no" (false), "1", "y", "yes" (true) (WITHOUT! quotes). Different capitalization (e.g., "Yes") can also be used. Strings are represented by character sequencies enclosed into double quotes; if value contains only letters, digits and minus sign you can safely omit quotes. Types and default values are shown after each parameter name in parentheses.

1. # Networking options and parameters ([network] section)

anonymous-name (string; default: anonymous)
: your name for anonymous transfers

anonymous-password (string)
: your password for anonymous logins. Insert your e-mail address here

default-port (integer; default: 21)
: default ftp port. Do not change unless you're know what are you doing. To make this feature useful create special directories for sites with nonstandard ports and set 'default-port' in them, not in general nftp.ini: nftp will look for initialization file in the current direcory first

firewalling (boolean; default: no)
: set to "yes" if you are behind the firewall

proxy-server (string)
: name of your proxy server *(firewalling only)*

proxy-login (string)
: your login on proxy server *(firewalling only)*

use-PASV-mode (boolean; default: no)
: whether to use passive mode all the way. If you don't know what's that don't touch it

2. # General options ([options] section)

derefence-links (boolean; default: yes)

whether to dereference symlinks on server. Setting to 0 is not recommended

show-dotted (boolean; default: yes)
: whether to include files starting with "." into the list

debug (boolean; default: no)
: debugging. Do not set to 1 unless nftp goes crazy. Produces huge logs

transfer-bell (boolean; default: yes)
: whether to beep at the end of transfer

login-bell (boolean; default: yes)
: whether to beep when logged in

transfer-pause (boolean; default: yes)
: whether to pause at transfer stats screen at the end of transfer

log-transfers (boolean; default: yes)
: whether to log transfers. Pretty useful option to keep history and statistics

log-transfers-name (string; default: "nftp.fls")
: name of transfer log. This may be global file (one for several instances of nftp running simultaneously).

save-bookmark-at-logoff (boolean; default: no)
: whether to ask to save current host/dir as bookmark at logoff. Do you remember that nCftp does this always?

bookmarks-file (string; default: "nftp.mrk")
: where to save bookmark information. This may be global file (one for several instances of nftp)

text-viewer (string; default: "tedit.exe")
: external program invoked by Alt-F3. Substitute your favourite viewer/editor

auto-switch-to-control (boolean; default: no)
: whether to switch to Control Connection Window automatically when sending commands to server

default-sort (integer; default: 0 (no sort))
: default directory sort for remote file list. 0-unsorted, 1-by name, 2-by extension, 3-by size, 4-by time

default-download-path (string; no default value)
: if this parameter is set, nftp will change into this directory after start

default-dir-mode (integer; default: 1 (parsed))
: default view of remote directory. 0 - raw (as supplied by server), 1 - parsed (owner/group removed)

3. Screen colours ([colours] section)

File Listing

pointer-marked-dir (default: yellow on cyan)
: cursor pointing to marked directory *(not used)*

pointer-marked (default: yellow on cyan)
: cursor pointing to marked file

pointer-dir (default: lightgreen on cyan)
: cursor pointing to directory

pointer (default: black on cyan)
: cursor pointing to file

marked-dir (default: yellow on black)

marked directory *(not used)*

marked (default: yellow on black)
marked file

dir (default: green on black)
directory

regular-file (default: grey on black)
file

Dialog windows

dialog-box-text (default: grey on blue)
dialog window

dialog-box-selected (default: white on grey)
selected element in a dialog window

dialog-box-entryfield (default: black on cyan)
entry field

dialog-box-text-warn (default: grey on red)
dialog window containing important information

Control Connection

controlconn-header (default: grey on blue)
window header

controlconn-respline (default: grey on black)
server messages and responces

controlconn-command (default: lightgreen on black)
command which was sent to server

controlconn-comment (default: lightred on black)
comment (actually not a part of control connection)

Bookmarks

bookmark-background (default: black on grey)
bookmark window

bookmark-pointer (default: black on cyan)
cursor

Built-in File Viewer

viewer-text (default: grey on black)
file contents

viewer-header (default: black on cyan)
status line

Miscellaneous

status (default: grey on blue)
status lines on **remote** directory (no. of files, no. of bytes, current host/directory etc.)

status-local (default: white on blue)
status lines on **local** directory (no. of files, no. of bytes, current host/directory etc.)

transfer-status (default: grey on blue)
file transfer panel

help (default: black on cyan)

help viewer

4. Keyboard combinations ([keys] section)

All these parameters are of type 'string' and can take more than one value. Separate values by comma. Quotes aren't needed because key names do not contain special characters.

nothing
: binds key to no action. Useful for removing unwanted defaults

Switching modes

switch-to-cc (default:space)
: switches between file manager and control connection

switch-local-remote (default:tab)
: switches between local and remote file view

directory-mode-raw (default: ctrl-w)
: switches to raw directory view (as in versions 0.60-)

directory-mode-parsed (default: ctrl-p)
: switches to parsed directory view (more space for filenames, owner/group id's omitted)

Logging in and out

bookmarks (default:ctrl-b)
: log in to server from bookmark list

login-anonymous (default:ctrl-l)
: log in to anonymous ftp server, enter server name

login_named (default:ctrl-n)
: log in to private ftp server, enter server name/login/password

logoff (default:ctrl-k)
: log off site

exit (default:f10)
: exit NFTP

Transferring files

download (default:f5)
: download file(s)

upload (default:shift-f5)
: upload file(s)

change-transfer-mode (default:ctrl-t)
: switches transfer mode between ASCII/BINARY

File operations

view-int (default:f3)
: view file with internal viewer

view-ext (default:alt-f3)
: view file with external viewer

delete (default:f8)
: delete file/directory

mkdir (default:f7)
: create directory

Sorting file list

sort-name (default:ctrl-f3)
: sort file list by name

sort-ext (default:ctrl-f4)
: sort file list by extension

sort-time (default:ctrl-f5)
: sort file list by time

sort-size (default:ctrl-f6)
: sort file list by size

sort-unsort (default:ctrl-f7)
: make file list to be unsorted (as supplied by server)

sort-reverse (default:ctrl-f8)
: reverse sort order

Navigating directory structure

enter-directory (default:enter,ctrl-pgdn)
: enter into the directory under cursor

go-root (default:ctrl-backslash)
: go to the root directory

go-up (default:ctrl-pgup)
: go to the directory one level up ("cd ..")

reread (default:ctrl-r)
: re-read directory

change-local-drive (default:f2)
: change local drive

change-directory (default:alt-c)
: input remote directory name and change into it

Selecting/deselecting files

select (default:insert)
: select/deselect file under the cursor and move cursor one position down (if possible). When cursor points to the directory, just move down

select-all (default:ctrl-numplus)
: mark all files in the current directory

deselect-all (default:ctrl-numminus)
: unmark all files in the current directory

select-by-filter (default: plus)
: mark files by user-specified filter

deselect-by-filter (default: minus)
: unmark files by user-specified filter

invert-selection (default: *)
: inverts selection

Miscellaneous

autocontrol (default:ctrl-a)
: switches autoswitching to control connection on/off

screen-redraw (default:ctrl-d)

redraws screen (do not re-reads remote directory)

noop (default:alt-n)
send NO OPERATION command (useful for verifying connection aliveness)

useflags (default:alt-f)
switches between NLST with flags/LIST commands

quote (default:alt-q)
send command to ftp server verbatim

save-bookmark (default:f4)
save current remote directory as bookmark

5. Owner identification ([registration] section)

Ignored in the current version until August 1, 1996.

name (string)
Your registration name (specify exactly as typed in registration form); enclose into double quotes

code (string)
Your registration code; enclose into double quotes. If you're running unregistered version, set this parameter to empty value.

message (boolean; default: yes)
If you're running unregistered and hate those warnings about registration, set this parameter to 0 -- you'll no longer see warnings. Of course, files larger than 500KB will be still unreachable.

The following table lists valid keyboard combinations. "Y" means that this keystroke can be used; "--" -- keystroke cannot be assigned (it's not generated at all or intercepted by system); "N/R" -- not recommended (e.g., better leave Esc or Enter bound to defaults); "char" -- generates plain ASCII character code.

VALID KEY COMBINATIONS: FUNCTION AND ALPHANUMERIC KEYS				
Key	**Plain**	**Shift**	**Alt**	**Ctrl**
esc	N/R	same as 'esc'	--	--
f1-f12	Y	Y	Y	Y
~ ‘	char	char	Y	--
1 !	char	char	Y	--
2 @	char	char	Y	Y
3 #	char	char	Y	--
4 $	char	char	Y	--
5 %	char	char	Y	--
6 ^	char	char	Y	Y
7 &	char	char	Y	--
8 *	char	char	Y	--
9 (	char	char	Y	--

0)	char	char	Y	--
- _	char	char	Y	Y
+ =	char	char	Y	--
| \	char	char	Y	Y
backspace	N/R	same as ’backspace’	Y	Y
tab	N/R	N/R	N/R	N/R
enter	N/R	same as ’enter’	Y	Y
a-z	char	char	Y	Y
{ [	char	char	Y	same as ’esc’
}]	char	char	Y	Y
: ;	char	char	Y	--
" ’	char	char	Y	--
< ,	char	char	Y	--
> .	char	char	Y	--
? /	char	char	N/R	--
Space	char	same as ’space’	NA	NA

VALID KEY COMBINATIONS: NAVIGATION KEYS AND NUMERIC KEYPAD				
Key	**Plain**	**Shift**	**Alt**	**Ctrl**
insert	N/R	same as 'insert'	Y	Y
delete	N/R	same as 'delete'	Y	Y
home	N/R	same as 'home'	--	Y
end	N/R	same as 'end'	Y	Y
pgup	N/R	same as 'pgup'	Y	Y
pgdn	N/R	same as 'pgdn'	Y	Y
up	N/R	same as 'up'	Y	Y
down	N/R	same as 'down'	Y	Y
left	N/R	same as 'left'	Y	Y
right	N/R	same as 'right'	Y	Y
num /	same as '/'	same as '/'	Y	Y
num *	same as '*'	same as '*'	Y	Y
num -	same as '-'	same as '-'	Y	Y
num +	same as '+'	same as '+'	Y	Y
num enter	same as 'enter'	same as 'enter'	Y	same as 'ctrl-enter'
num 1	same as 'end'	same as '1'	--	same as 'ctrl-end'
num 2	same as 'down'	same as '2'	--	same as 'ctrl-down'
num 3	same as 'pgdn'	same as '3'	--	same as 'ctrl-pgdn'
num 4	same as 'left'	same as '4'	--	same as 'ctrl-left'
num 5	Y	same as '5'	--	Y
num 6	same as 'right'	same as '6'	--	same as 'ctrl-right'
num 7	same as 'home'	same as '7'	--	same as 'ctrl-home'
num 8	same as 'up'	same as '8'	--	same as 'ctrl-up'
num 9	same as 'pgup'	same as '9'	--	same as 'ctrl-pgup'
num 0	same as 'insert'	same as '0'	--	same as 'ctrl-insert'
num .	same as 'delete'	same as '.'	--	same as 'ctrl-delete'

KEYBOARD COMMANDS SUMMARY

All interaction with NFTP is keyboard-based; there's no mouse support (and I am not going to implement it -- at least now). This approach is somewhat tough for novice user, but after some learning it gives the best results in terms of usability and interaction speed. Here is the list of keystrokes ("hot keys"); it's divided into several sections each pertaining to specific mode of operation or action

classification.

GENERAL KEYBOARD COMMANDS	
Note that these commands are available almost always	
Key	**Meaning**
Shift+F1	program information and general keyboard commands
F1	brings context sensitive help
F10	logoff from site and quit NFTP
Ctrl-K	logoff from site
Ctrl-B	open bookmark list and log to site from it
Ctrl-L	login as anonymous into new site
Ctrl-N	login with userid/password into new site
Ctrl-V	display version information
Ctrl-A	toggle state of autocontrol flag
Ctrl-T	toggle ASCII/BINARY mode
Ctrl-D	redraw screen (do not re-read remote dir)
Alt-N	send NO OPERATION command (verify connection aliveness)
Ctrl-W	sets remote directory view to *raw* (as used in NFTP 0.60-)
Ctrl-P	sets remote directory view to *parsed*
Alt-F	use/inhibit NLST with flags (default is on). Some servers do not like `NLST -lLa`. Try if you see strange messages from server when retrieving directory listing. NOT RECOMMENDED.

CONTROL CONNECTION WINDOW	
Key	**Meaning**
arrow keys	move viewpoint
Esc	bring you back to the end of history (same as End)
Space	switches to directory view
Alt-Q	send any string to server verbatim (quote)
Alt-C	change to arbitrary directory

FILE LISTING VIEW (REMOTE OR LOCAL)	
Key	**Meaning**
Navigating	
arrow keys	move cursor around
Ctrl-\	change to root directory
Ctrl-PgUp	goto the directory level higher ("cd ..")
Ctrl-PgDn	chdir to directory under cursor
Enter	same as above
Alt-C	change to arbitrary directory
Space	switch to control connection
F2	select drive letter -- *local view only*
Sorting file listing	
Ctrl-F3	sort directory by name, dirs first
Ctrl-F5	sort directory by time, then name, dirs first
Ctrl-F6	sort directory by size, then name, dirs first
Ctrl-F7	remove sorting, return to original state
Ctrl-F8	reverse current sort order

Marking/unmarking	
Ctrl-num+	mark all files in current directory
Ctrl-num-	unmark all files in current directory
Insert	mark/unmark file under cursor. Directory cannot be marked
*	invert selection
Alt-num+	mark all files in all visited directories
Alt-num-	unmark all files in all visited directories
Transferring files	
F5	download file under cursor or marked files (if any) -- *remote view only*
Shift+F5	upload file under cursor or marked files (if any) -- *local view only*
Alt-F5	download all marked files from all directories -- *remote view only*
Viewing files	
F3	view file under cursor, use fast internal viewer
Alt-F3	view file under cursor, use external viewer
Creating/deleting files/directories	
F7	make directory (you have to have permissions on remote)
F8	delete file or directory under cursor
Ctrl-R	re-read directory (refresh file list)
Miscellaneous	
F4	save this place as a bookmark

ENTRY FIELDS	
Key	**Meaning**
Esc/Enter	abandon/confirm
Left, Right, Home, End	move cursor around
Tab, Shift-Tab	move to next/previous field (if any)
Del, Backspace	delete characters
Pressing any keys different from Left, Right, Home, End will clear the initial string.	

BOOKMARK LIST	
Key	**Meaning**
arrow keys	move cursor
Enter	select bookmark
Esc	abort (leave bookmark list)
Del	delete bookmark
Insert	create new bookmark

BUILT-IN FILE VIEWER	
Key	**Meaning**
arrow keys	scroll (note that you can scroll horizontally also)
Ctrl-Left/Right	scroll by 10 symbols horizontally
Esc	exit viewer

KNOWN BUGS AND LIMITATIONS

1. Not all ftp servers are supported. Most ftp servers in the world use wu-ftpd under Unix as their server software, so you shouldn't experience this trouble too often. Nearly all Unix ftp servers are supported. IBM TCP/IP 2.0 for OS/2 ftpd and Windows NT ftpd are supported too.

2. When running with ’debug=1’, your password will be recorded in debug tracefile -- beware!
3. When running with ’debug=1’, run nftp off HPFS partition - debug file has long filename with two dots.
4. Error handling is still pretty primitive

TROUBLESHOOTING

Q: nftp says "emx not found".
A: You don’t have emx runtime package installed. Read INSTALLATION section again.
Q: nftp crashes, saying "core dumped".
A: If you can repeat situation, please send me details of your setup (nftp.ini, nftp.mrk, keystrokes which caused fault).
Q: nftp seems to be hanging, no activity is visible
A: If this happened during transfer, try "Q". Otherwise terminate it with Ctrl-Break.

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- Lord Lee (translation to Chinese)
- Kirill Lissovsky (usability comments)
- Jose Ruiz (translation to Spanish)
- Kaz Shimz (translation to Japanese)
- Kim Poulsen (translation to Danish)
- Kristoffer Viddal (translation to Norwegian)

Special thanks to Eberhard Mattes, author of emx/gcc development system!

This program is packaged using Info-ZIP's compression utility. Info-ZIP's software (Zip, UnZip and related utilities) is free and can be obtained as source code or executables from various bulletin board services and anonymous-ftp sites, including CompuServe's IBMPRO forum and ftp.uu.net:/pub/archiving/zip/*.

REGISTRATION

Registration fee will be US$ 20. For this price you'll get free updates (i.e. all future versions of NFTP) and support from author by e-mail. Single registration covers all national language versions, so if you want to run, say, English and Chinese versions, you'll have to pay only once.

If you think that price is too high for this small utility, simply don't use NFTP.

The program isn't complete, so there's nothing yet to pay for. Please wait for release version (1.0). Version 0.72 will become unregistered August 1, 1996. There should be another version this Summer.

For people living in Former Soviet Union countries registration will cost only one postcard. If you want to register in advance, send *nice* postcard (preferably with your home town if it's not Moscow) enclosed in envelope to
Sergey Ayukov
Sternberg Astronomical Institute
Universitetsky pr., 13
Moscow 119899
Russia
You will receive your registration number after sending registration form by e-mail. This form will be provided later.

Nothing else here at the moment.

CONTACTING THE AUTHOR

You can reach me at asv@sai.msu.su.

Where to find new versions:

1. anonymous ftp: ftp.sai.msu.su:/pub/os2/internet/ftp/
2. WWW: http://crydee.sai.msu.su/nftp/
3. ftp-os2.cdrom.com, hobbes.nmsu.edu, ftp.leo.org

Note that first site is managed by myself so it always contains the latest version while Hobbes and cdrom archives sometimes become outdated.

Sorry for any typos and bad grammar. I will gladly accept any corrections to this short manual.

Sergey Ayukov (asv@sai.msu.su)

Version history

Version 0.1 (preview)
First usable version. Used FTPAPI calls. Very slow; control connection messages cannot be seen. Wasn't exposed to public, although available.

Version 0.2 (preview)
Got rid of FTPAPI. Full-scale socket programming of ftp control connection and data transfers. Introduced bookmarks.

Version 0.3 (preview)
Never showed to public. The last version compiled with IBM CSet++. See 0.4.

Version 0.4 (preview)
Nearly the same as 0.3, but compiled with emx 0.9a + gcc 2.6.3. A handful of new features:

- logging in and out without restarting entire program;
- passworded entries in bookmark file;
- quick directory change: if you know where to go, you won't need to traverse all intermediate dirs;
- various bug fixes.

Version 0.5 (preview; close the beta stage)
Bugfixes plus

- ability to work in any 80xXX mode (25 <= XX)
- online context sensitive help (press F1, Shift+F1)
- code reorganization
- some errors are handled (mostly login errors)
- directory sorting by name, size, date/time
- create directory on the remote, remove file(s) on the remote
- preserving date/time of files downloaded
- fast built-in file viewer
- ability to invoke any ftp server command
- better socket selecting scheme

Will not work after 31 Dec 1995

Version 0.51 (preview; close the beta stage)

I am sorry for releasing 0.5 so full of bugs... There was a lot of...

- fixed couple of awful bugs (memory corruption) resulting in core dumps etc;
- got rid of malloc (goodbye, flat memory space! welcome, 32-bit segments and memory protection!)
- you can set nonstandard port in nftp.ini

Version 0.52

Same as 0.51 but without 31 Dec limitation. Only to be distributed by *SAMS Publishing*.

Version 0.53

Nearly the same as 0.52 but limited to 30 March 1996.

Version 0.60

I am a bit short on time; 0.53 expires today, so some new features weren't tested much. Bugfixes and small improvements plus:

- reget (restarting transfers)
- uploading
- IP numbers can be used instead of host names
- "Q" and "S" work! you can skip files during transfer or stop download/upload
- more intelligent networking (fixes some problems with dynamic IP)
- changing local directory, viewing list of local files etc.
- ability to specify arbitrary port (not in bookmarks though)
- new bookmarks can be created with Insert key
- installation program
- documentation

Version 0.70

Few bugfixes (including failing to recognize "hostname/directory" format when specified in the command line) plus

- fixed *nasty* bug causing nftp to crash when viewing some files with internal viewer -- thanks to Jose Ruiz who pointed out to such file
- sort by extension
- much more error recovery; there should be no more situations when nftp exits silently;
- improved sound signals; includes beep after successful login (configurable)
- tables in this manual look much nicer now :-)
- firewalling support -- *does not work yet*
- remappable keys
- ability to specify download directory in NFTP.INI. NFTP will change into that directory after start
- IBM TCP/IP ftpd for OS/2 is supported
- Windows NT ftpd is supported
- Windows 3.x WFTPD by Texas Imperial Software is supported
- Progress indicator in "view remote file" and during receiving of directory listing
- You can now try to "chdir" to symbolic link
- "Parsed" directory view -- hit Ctrl-P and see
- **National language support** -- check out NFTP home page
- Average transfer speed is now recorded in the history (.fls file)
- Russian version
- Chinese BIG-5 version
- Spanish version

Version 0.71

Several bugfixes plus

- '*' inverts selection
- f8 deletes local directories
- Neologic FTPD is supported
- moving language-dependent strings into separate DLLs (thus greatly reducing size of the package)
- (un)marking files by template (eg, '*.txt')
- Hungarian version
- German version
- Danish version
- Japanese version
- **caching of viewed remote files**
- downloading all marked files from all directories (alt-f5)

Version 0.72

No new functionality. Fixed small mistakes in national language translations. Added Norwegian version. Added missing ASCII and Postscript manuals.

Planned for next versions (note that not all these features will be in the first shareware version (1.0)):

- **more error recovery**
- **more complete docs**
- improved installation/setup routines
- bookmarks in the form of standard URLs
- more multithreading (view file while downloading etc)
- enhanced bookmarks (folders?, descriptions etc.)
- more smart fileviewer
- keep-alive option (to prevent timeout logoffs)
- searching for string in file names
- letters select files starting with these letters
- batch mode ?
- saving directory listing
- complete firewalling support (a-la WS_FTP)
- autodownloading file descriptions (00index.txt) and showing them (a-la CuteFTP)

There were several requests for PM version. I hope that I will write it sometimes, but probably not in 1996.