PowerBBS for Windows
COPYRIGHT Russell Frey, 1993
Hicksville, New York
Shareware Manual -
(Note: Registered manual is improved on page layout; includes index; & more!)

Contents

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You are entitled to replacement of defective disks within 30 days of your purchase. Send them back to:

Russell Frey
35 Fox Ct.
Hicksville, NY 11801

for replacement. This is limited only to replacement and shall not encompass any other damages.

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2.0 Introduction

Thank you, for trying the PowerBBS system. I want you to carefully read this documentation, before you run the PowerBBS system. The first section is a basic operations manual for the Power BBS system. The later sections describe advanced and associated programs operation.

After reading the Quickstart installation instructions, you are ready to install and run the Power BBS configuration program. I recommend you setup a local node first. This way you can get a feel for the way the Power BBS system is put together. Once the software is running, you'll notice that the screens already exist. These are provided for you, to help you get your BBS up and running as soon as possible. It will also let you take some time and retouch some of the menu screens. There is a full compliment of menus and screens included, but, you will want to personalize them for your system. PowerBBS for Windows is a very flexible program, and you can really set it up to do whatever you want! For beginners, you should have an operating BBS within your first day. Enjoy the system.

With your order you will ALWAYS have full support from us at the Product Support BBS (516) 822-7396.

3.0 Product Support

Russell Frey
35 Fox Court
Hicksville, New York 11801

516-938-0506 (voice)

516-822-7396 (9600-14400 connections)
516-822-7568 (2400 connections)

Compuserve To: Russell Frey @ 71155,2035

Internet: 71155.2035@compuserve.com

The latest ordering information will be displayed to shareware users, upon running PowerBBS.

Power BBS for Windows was written in Borland Pascal, to be fast, flexible and easy to use. It was the first BBS program written for windows. Those ordering the

professional version will receive a source code package where you can add on features using the code directly!

While Power BBS was written to fast, flexible and easy to use, with a simple installation procedure and configuration program, sometimes problems do come up. After all, a BBS is a complicated system of interlocking parts. When things do not work the way you think they should or you have had a problem, and found a workable solution, call the support BBS for help, or to spread your new knowledge. These tips, hints and suggestions will be collected and compiled into a hint file and distributed to all registered users from time to time. Please do not wait for a problem to call the support BBS. Information on updates is posted here as soon as it is available. Your suggestions and comments for future versions is welcomed also.

4.0 Hardware Requirements

You must have at least the following hardware to run the Power BBS system. Other equipment may be required for differing setups.

1. IBM compatible BIOS, v3.x or higher.

2. Monitor. Color preferred, but not required.

3. Hard Disk Drive with at least 10 Mb of free space.

5. A 80286 or better CPU. A 386DX or better is suggested if you intend to run multiple nodes.

6. Some method of getting communications to your system. Power BBS will run on a network for e mail systems. However, if you wish to have outside users you will need an RS-232 compatible serial port and a Hayes compatible modem. The modem may be internal or external. External modems will require cables to connect them to your system. The phone line used for external communication should be a 'dedicated' line, without 'call waiting'. This feature, available on some phone systems, will cause line noise, and dropped callers.

We do not guarantee that Power BBS will run on 'all' systems. It has been tested on many systems, successfully.

5.0 Software Considerations

1. MS Windows 3.1or higher.

NOTE: When windows shells to DOS, for file testing and live doors, it will use the _DEFAULT.PIF for the initial settings information.

6.0 Installation

Unpacking: Your Power BBS package came either as a disk, or as an archived file. If you have the disk, skip to the next paragraph. If you have the archive, read on...

Your package needs to be unarchived into the main root directory. For example, before running INSTALL if you want to load from your C: drive, be sure the files C:\POWRMAIN.EXE C:\POWRFILE.EXE and C:\PBBSDOC.WRI exist. Once you have done so, run the INSTALL program from Windows File Run command (this may be

located anywhere, but if you copied to C:\INSTALL then run it from there).

A 'dialog window' will open asking you which drive to load Power BBS from. Select the appropriate drive. The next dialog window will ask you which drive you want Power BBS installed to. Again select the appropriate drive. You usually will want to place PowerBBS onto your main drive (most of the time this is your C: drive). If you are running a network, and want to use PowerBBS between computers, consider installing it onto your network drive.

Your Power BBS package will now be installed into a basic configuration. Once the installation program has finished unpacking the files, you will be asked for your USER name, and PASSWORD. These two pieces of information will be required for you to log onto YOUR BBS. Do not forget them, and do not use a password that you use on any other BBS.

6.1 Config.sys

Using a text editor (ASCII only!), ensure the following values (or higher) are in your CONFIG.SYS file:

```
FILES=40
BUFFERS=30
```

These two lines ensure that your computer allocates enough file buffer space for the BBS. If you are going to run Multi-Node, I recommend you add 25 more FILES for each additional node.

The BUFFERS command reserves chunks of memory to hold the most recently read or written data from your disk. This command will vastly speed up your system, but uses memory. If you are running a disk cache, then you probably do not need the buffers command.

The BUFFERS command is only beneficial if you are not already running a disk cache. If you are running such a program (such as SMARTDRV), 30 is even too many. Try setting it to 5.

NOTE: You must reboot your machine after editing your CONFIG.SYS, or your AUTOEXEC.BAT, for the changes to take effect.

7.0 Starting Config

After you have finished the installation, you will find the Power BBS files in the C:\POWRBBS directory (or whatever drive you installed Power BBS to.) There are also other directories within \POWRBBS containing files and information for the BBS system to use.

If INSTALL did not add the icons automatically, load the windows Program Manager (or whatever substitute you are using!), and enter the group area you want your Power BBS icons located. I recommend you create a new 'group' just for Power BBS. Start with the CONFIG program. From the FILES Menu, select NEW. In the boxes type:

```
NAME:           Config
COMMAND LINE:   CONFIG.EXE C:\POWRBBS\POWRBBS.DAT
STARTUP DIR:    C:\POWRBBS
```

The second path and file are for your Power BBS configuration data. It is required to run the CONFIG program, and later the BBS itself. If you will be running a multi-node system, you will want to have separate data files for each node. For example:

C:\POWRBBS\POWRBBS1.DAT
C:\POWRBBS\POWRBBS2.DAT

Chose OK. You may start the config program now, by clicking on the icon. If you selected another drive than C: during the installation, most of the paths should have been changed automatically. You will now have to review each screen to ensure that everything is as you want it. Also, I recommend you get a clean floppy disk, and copy your PowrBBS.dat file and any other data files to it, as soon as you are done with them. This will save you aggravation later!

Go through each screen in the configuration. The installation program will have setup a LOCAL only node. This is the best way to learn about the Power BBS package.

There is detailed information on the Configuration data later in this document. For now, take a look at all the screens, then log on in local mode and have some fun!

8.0 Starting PowerBBS

Install should have automatically installed the PowerBBS Icon. If it did not, go back to the program manager, and again select NEW. This time enter:

NAME:	Power BBS
COMMAND LINE:	POWRBBS.EXE C:\POWRBBS\POWRBBS.DAT \D
STARTUP DIR:	C:\POWRBBS

(remember to include any changed designation such as PowrBBS1.dat !)
Select OK and the Icon will be in your selected group.

Start the BBS by double clicking on the icon.

Note that the \D option brings up the logon dialog box automatically. If you do not want that to happen, take the \D option away.

9.0 Config for PowerBBS

This section will cover the details you need go to get your system setup and start accepting callers. I will give references to other parts of the manual, for more detailed information. It's up to you, to do your homework and read the rest of the manual!

Now. You should already have POWER BBS on your drive and setup for LOCAL mode. I'll go through the configuration screens and we will setup a custom configuration for your system.

Some basics first...

1. Get a pad of paper. (yes, I said paper. Even on a multi-tasker it is often more

convenient to write things down this way.)

2. Write down ANY changes you make or think you might want to make, to your system files and BBS configuration, as you go. This will make it easier to correct mistakes and make changes later.

a. Most BBS are text based, but have strong elements of visualization to them. If you have strong visualization of what you want, it will be that much easier to achieve your goal.

b. It allows you to quickly change things back, when the changes you make don't quite work out, or you decide you don't like the 'new' look.

c. As your board evolves, you may change your mind about how a particular effect 'fits in' to the overall layout. If you have your notes, you can rethink it without having to redo the whole board.

With all of this in mind double click on the CONFIG icon in the PowerBBS group. You will be presented with six (6) possible selections:

General System Setup
Forums Setup
Files Setup
Menu Setup
Language Setup
Exit Config

9.1 Navigation

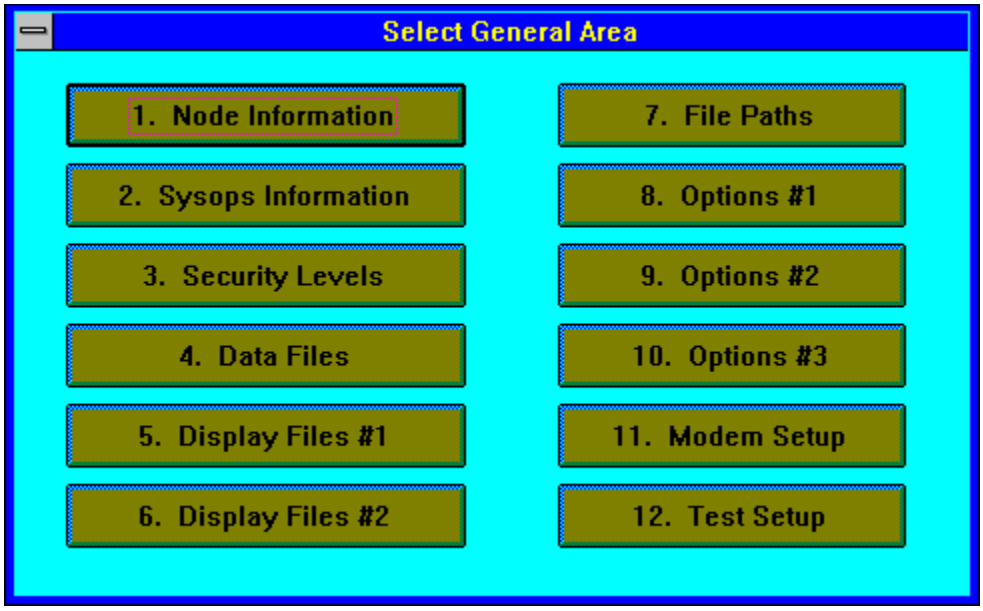
As you go through the screens, the keyboard selections can be used to get around on NON-WINDOW DIALOG SCREENS:

HOME	Beginning of current field
END	End of current field
RIGHT ARROW	Cursor right in current field
LEFT ARROW	Cursor left in current field
UP ARROW	Previous record/field
DOWN ARROW	Next record/field
TAB	Beginning of next field
ENTER	Next field
PGDN	Next page
PGUP	Previous page
INSERT	Toggle INSERT/OVERWRITE mode
DELETE	Delete character at cursor

With CONFIG for Windows you may use these keys to perform some of the same operations. You can also use your mouse on non-window dialog screens to select any of the control fields on the menu screen, or to move from any field to any other on the screen. To load an item from the main screen, single click on the button.

9.2 General Forums Setup

Click on General Forums Setup. You now have a screen with 12 buttons. These buttons represent 12 different parameter sets.



9.2.1 Node Information

Has 15 pieces of information on it. Most will stay the same, but some must be different for each node that you are running.

CODES	#	Description
N S	1	Number of this NODE
N D	2	Path to transfer directory
D	3	Path\File used for display output
D	4	Path\File to DSZ log file
N C D	5	Path\File to DSZ Files listing
D	6	Path\File to activity log
C D	7	Name for compressed mail
N D	8	Path\File to current callers info
N D	9	FULL Path\File to startup batch file (No longer used / DOS Version)
N D	10	Path\File to error log file
N D	11	Path\Directory for POWERMAIL
S	12	Run CHINESE compatible?
C	13	Zmodem SEND command
S	14	Credit System?
D	15	Path\File to USED-UP Cedits screen

Codes...

N	Different for each node
S	Select
D	Default works fine
C	Change to your choice

1. Select the node number for this node. You may choose any non-negative number from less than 65352. If you choose node # 0, you will be unable to use the 'Who is

Online' function.

2. The TRANSFER directory is used by POWERBBS and PBBSPROT as a temporary directory for files transfers. It will hold uploaded files until they are moved around, and the download files list will be held here for the transfer protocol to use. This directory should be different on all nodes. If it does not exist, CONFIG will create it at logoff.

3. The Output/Display file is used by POWERBBS whenever a user selects several files for d/l or when testing/viewing a zip file, after a shell out, the LIVE .BATS etc... If this file is found it will be displayed.

4. The DSZ.LOG file must be set as an environment variable in your AUTOEXEC.BAT file. Change this line to whatever you set there. Although this file is usually used by external protocols like DSZ, it is also used internally by PBBSPROT and POWERBBS.

5. The DSZ listing file is used by external protocols and by PBBSPROT when a user is downloading. It contains all of the necessary paths and file names for the transfer. It should be different on all your nodes.

6. The name of the activity log will have the node number added to it by PowerBBS. So, the name should be no more than 6 characters, and the same on all nodes. It will be created if it does not exist. It contains all the information generated by the BBS and associated programs, for each particular caller.

7. The name for compressed mail is used whenever a compressed mail packet is downloaded (not a .QWK packet.) Do not try to include an extension, and make it the same on all nodes. The node number will be added to the end of the name as will the extension. The name must also be 8 characters.

8. The current callers info file is used by PowerBBS and associated programs to provide information to all sorts of things. Conversion programs will use this as a source file for current caller information supplied to LIVE (door) programs. It should be different on all nodes.

9. The START.BAT file is not used by PowerBBS for Windows. DOS users should include the FULL path and filename to this file. This should be different on all nodes.

10. The error file is generated automatically by PowerBBS and when testing .zip (or other archiver) files.

11. This is the directory where .QWK/.REP files are zipped/unzipped. You must have a separate directory for each node.

12. Checking the CHINESE COMPATIBLE box will allow your users to enter any name they want. If it is blank, the name must begin with a letter. The letter is used by the indexing routines. PowerBBS may still be CHINESE (or Japanese) compatible by checking the 'Permit High ASCII Characters' box on Options #3, item 5. The only restriction then is that the name must begin with a letter.

13. This is the default Zmodem send files command. Used whenever there is no protocol chosen.

14. This is used for BBS that want to run a credit system with their users. Users will be given a set number of credits at first logon. After that they will use their credits at

the rates you select in your menus. You will have to setup methods of providing them with new credits. Either through uploads, message posting or as prizes in your online games (LIVE DOORS.) This option may be different on different nodes.

15. The path\file name for your USED-UP credits screen. The default location will work just fine, and it can be the same on each node.

9.2.2 Sysop Information Screen

This screen has 14 pieces of information on it and you will have to change the defaults on most of the lines...

CODES	#	Description
C	1	Name of this POWER BBS
C	2	First Name of the Sysop
C	3	Last name of the Sysop
D	4	DEFAULT compressed file extension
D C	5	Registration #
D C	6	POWERMAIL Code
D C	7	Security Level to Read/Kill any message
D C	8-13	Security Levels for access to Sysop's Menu
D	14	Path\Directory to .MNU/.POW Source files

Codes...

D Default works fine
C Change to your choice

1. Change this to whatever you want to call YOUR PowerBBS.

2. YOUR first name...
If you are using a REGISTERED version of the software, be sure to use the same name printed in the front of your printed manual.

3. YOUR last name...

4. DEFAULT Compressed Filename extension is the extension added by whatever compression program you will be using. Examples are ZIP ARJ LZH ARC ZOO Input should only be three characters. Do NOT use a dot to start; that is assumed.

5. REGISTRATION Number as you received it.

6. POWERMAIL Code is an 8 character code that is used as the file name for the .QWK packets that POWERMAIL will be producing. This name must be all letters and no more or less than 8 characters long. This name must be tha same on all nodes.

7. Security Level needed to Read/Kill any message. Will allow ANYONE with this security level to read/kill ANY mail. Including PRIVATE messages addressed to anyone.

8-13. Security Levels to access Sysop's menu is a listing of 6 functions. These

various security levels will allow the appropriate user to do things like DROP to DOS, View ACTIVITY File, LIST Users, UPDATE Users, and PACK Message Base.

14. Path\Directory containing .MNU/.POW source files, will contain all of your menu files and POWER Lang files. This directory path should have a \ at the end. The default will work fine here, but you may have separate directories for each node.

9.2.3 Security Levels

There are 6 pieces of information on this screen.

CODES # Description

D 1. Access Level for New Users
D 2. Delete a Message
D 3. Reply to A Message
D C 4. Change Forum Area

D S 5. Run FrontDoor Mode?
D C 6. Temp file to read baud rate from

S Select
D Default works fine
C Change to your choice

1. The default ACCESS LEVEL of your new users

2. Minimum security for a user to DELETE a message from/to him.

3. Minimum security for a user to REPLY to a message to him.

4. Minimum security for a user to move from one forum to another.

All of these will work fine as they are set. You may want to change the levels required for one or more of the options. I personally have the CHANGE Forum security level set to 20. This way I can have new users get access to certain forums and then once they have been verified, they can chose which other forums they want to get into.

The next 2 option lines are special. They will enable PowerBBS to run with a front end program, like FrontDoor. This type of program is often used for transfering mail packets between systems in the FIDO (and others) network. For more information on FIDO and frontend mailers see the section on FIDO.

5. Are you running FrontDoor(tm) or other program?

You should check thius box only if you run PowerBBS with FrontDoor(tm) or some other network mail processing program. PowerBBS will then run the EVENT.BAT instead of waiting for calls. When the EVENT.BAT is done, PowerBBS will read the current USERINFO.BBS for the Baud rate. It will then log the caller on to the BBS. For futher information on setting up FIDO Net with PowerBBS, read the section on it later in this manual.

6. This is a temporary file that contains the baud rate information for the current caller. In the FrontDoor manual there is a section that talks about the batch files necessary to run a BBS from FrontDoor(tm). Unless you really are planning to use FrontDoor(tm) or other frontend mailer, leave this field as it is. Otherwise acquire the documentation to the particular mailer you want to use and follow what it says there.

9.2.4 Data Files

These 10 files contain information important to the way your BBS will work. Even if you want to use the defaults you should look at each of the files on this screen and familiarize yourself with them.

CODES	#	Description
D	1.	Path\File to the Questionaires Data File
D	2.	Path\File to the Downloads Security Level File
D	3.	Path\File to the Uploads Security Level File
D	4.	Path\File to the Security Levels Data File
D	5.	Path\File to the Junk Names File
D	6.	Path\File to the LIVE Programs (Doors) Data File
D	7.	Path\File to the Bulletins Data File
D	8.	Path\File to the Transfer Protocols Data File
D	9.	Path\File to to the FREE Files Data File
D	10.	Path\File to the Languages Data File

All files in this group may stay the same on all nodes or you may change them on each node for customization. The individual data files will need to be edited for your individual needs. To edit a particular Data File point with the mouse and click on the EDIT button.

1. QUESTIONNAIRES DATA FILE
This is a menu of questionnaires available to the user. It also lists the name of the answer files for each questionnaire. Questionnaires are text files with particular macros added to them. The user will see the individual lines of the questionnaire, one at a time and be presented with certain possibilities for an acceptible answer. I use a questionnaire to update my new users to a registered security level. A line of this data file will look like...

PATH\FILE TO QUESTIONAIRE	PATH\FILE TO ANSWER FILE
C:\POWRBBS\WORK\QUEST1	C:\POWRBBS\WORK\ANSWER1

After the user answers the questionnaire the answers are recorded in the ANSWER file. This is another text file that can manipulated by you or by another program. For more information on creation and editing of Questionnaire files, see section 25, Questionnaires.

2. DOWNLOAD SECURITY LEVEL FILE
This holds the information for what file types, directories and individual files you want to let users have access to. In this way you can restrict access to directories by minimum access security level, or password. The same applies to file types and to individual files. MAKE SURE you put things in order of important. PowerBBS will search this file from top to bottom. Another words if you have *.ZIP as the first entry, and C:\POWRBBS*.ZIP as the second, the second entry does not even need to be there.

COMPLETE DRIVE\PATH	SEC	PASSWORD
PBBS25*.*	20	YouOnly!
*.GIF	20	
D:\Files*.ZIP	10	

3. UPLOAD SECURITY LEVEL FILE
This holds the information for what file types, directory paths and individual files you want to let users upload to your board. In this way you can restrict access to directories by minimum access security level, or password. The same applies to file types and to individual files.

FILE [PATH\WILDCARDS]	SEC	PASSWORD
PBBS25*.*	20	YouOnly!
e:*.*	130	Sysops
d:*.GIF		20
D:\Files*.ZIP	10	

4. SECURITY LEVEL DATA FILE
This lets you set up the various access levels of your users. There is a lot of information on this screen and it determines what your users will be able to do.

LEV	TIME	K-LIMIT	MONTH-LIMIT	MSGS RATIO	FILES RATIO	BYTES RATIO
10	20	128	1	0	0	0
20	60	512	5	0	0	0
30	60	1000	10	10	10	10

A lot of this is self-explanitory, but here goes anyway.

LEVEL is the security access level for this line.

TIME is the number of minutes per day this user may be online to your board.

K-LIMIT is the number of BYTES users with this access level may download per day. There is no restriction on uploads!

MONTH-LIMIT is the number of MEGABYTES users with this access level can download per month.

MSGS RATIO is the number of times a user may be on without leaving a message. This is a ratio, so, it doesn't read like it looks.

100	1 message left per time on.
50	1 message left per 2 times on.
25	1 message per 4 times on.
10	1 message per 10 times on.

FILES RATIO is the ratio of files users may download without leaving one in return.

BYTES RATIO is the ratio of BYTES that users may download per bytes uploaded.

NOTE: The FILES and BYTES ratios work the same way the MESSAGES ratio works.

5. JUNK NAMES DATA FILE

This stores information about users names that you do not want on your board. There are many prelisted words already here, and you may add to them at your option.

Examples of bad user names might be any keywords that you don't want used, foul language, control codes or just specific user names.

+++
-PC
ABUSER
CC
DARTHVADER

6. LIVE PROGRAMS DATA FILE
This holds information about any external programs you want your users to have access to. Some other BBS programs call these "doors". This file should have a different name and be separate for each node of your BBS.

COMPLETE PATH\FILENAME	SEC	PASSWORD
D:\Cyber\Cyber		20
D:\USDR\USBBS	20	Highfive

Setting up either DOS or Windows Doors

The first entry in this file notifies PowerBBS to either load a Windows or DOS live program. When PowerBBS reads a .EXE in PATH\FILE NAME, it assumes a Windows program is to load. If no .EXE is found, it assumes a DOS live program is to be run. Also note, that Windows programs require the path to the data file on the command line.

DOS Entry for BlackJack: C:\POWRBBS\DBLACK

Windows Entry for BlackJack: C:\POWRBBS\BLACKJK.EXE C:\POWRBBS\POWRBBS.DAT

The MINIMUM SECURITY level for access to this door and any PASSWORD required for access are entry 2 and three. An example of a batch file to run a live program would be;

```
@echo off
convdoor d:\powrbbs\use1info.bbs d:\powrbbs\data\users d:\powrbbs\cyber\door.sys
cd cyber
qkdoor GAP WWIV
cyber chain.txt
del door.sys
del chain.txt
cd \powrbbs
```

For more information on running Live Doors in PowerBBS turn to section 17, Installing and Running Doors.

7. BULLETINS DATA FILE
This is a text listing of the full path\filename of all your bulletin text files. A Bulletin is

any ASCII text file that you create for the entertainment and edification of your users. Examples of bulletins are:

User Name Listing
Current High Scores for one of your doors
Instructions for use of a particular feature you want to point out
Information on upcoming events

8. TRANSFER PROTOCOLS DATA FILE

This is the command line setups for whatever protocols you have for your users to transfer files. There is a protocol driver included with the PowerBBS distribution. It is written specifically for PowerBBS and will work fine. Examples of other, 'EXTERNAL' protocols are;

DSZ	Does not work with FOSSIL installed.
HSLINK	
PUMA	
BI-Modem	

and the list goes on...

For more information on setting up other protocols with PowerBBS, see section 13; Protocol Setup for File Transfer.

On each page of this section is room for 5 protocol entries. Each entry has 6 options areas.

```
LETTER:  Z    MAX DLs:  40  MAX ULs:  40  NoScroll:  Y   Copy:  N
Description:  Zmodem
(D)  C:\POWRBBS\PBBSPROT.exe |PBBSDAT| sz
(U)  C:\POWRBBS\PBBSPROT.exe |PBBSDAT| rz
```

LETTER:	The letter user presses to select this protocol.
MAX DLs:	Maximum number of files to Download at one time.
MAX ULs:	Maximum number of files to Upload at one time.
NoScroll:	Should be Y for all entries. It is no longer available in the Windows version.
Copy:	If set to Y, PowerBBS will copy over the files to be transfered to the Hard Drive. Usually set this to N.
Description:	A short description that will be displayed to users.
(D):	Protocol Command Line to SEND a file. (The USER will be DOWNLOADING!)
(U):	Protocol Command Line to RECEIVE a file.

NOTE: This line must contain .EXE or .COM files, not .BAT files. If you want to include a .BAT file, place CALL MYPROT.BAT for the command. CALL is a DOS function to be able to CALL another batch inside of a batch.

PowerBBS provides the following macros for use in your command lines. The macros are replaced with their correct values at runtime. Be sure to have the pipe character (|) at the beginning and end, and the word in CAPS.

|BAUD|	This is the current baud rate of the caller
|COM|	This is the current com port # on this node
|FILES|	This is the filename which contains the file list

|PBBSDAT| This is the path/filename to your POWRBBS.DAT (for the current node)

9. FREE FILES DATA FILE
This is a text listing of directories, files, file types and specific files that will not be charged for download.

PATH\FILENAME\WILDCARD OF NOCHARGE FILES
Master.ZIP
*.GIF
D:\PBBSFILE*.*

Any caller downloading Master.zip, any .GIF file or any file from the D:\PBBSFILE directory will not be charged time or bytes for these files.

10. LANGUAGES DATA FILE
This is used by PowerBBS to enable multi-language support.

#	EXTENSION	TEXT	PHONE
1		English	(###) ###-####
2	SP	Spanish	NO

#: The number a user would press to select this language option
EXTENSION: Added to the end of language specific files to differentiate it from the default screens. For example, if you put FR here, the file HELLO1.FR will be displayed to a user selecting the language (if HELLO1.FR isn't found then the normal screens are displayed). Also note that the color screen is still HELLO1C.FR. This extension is optional, but if used should relate to language specified.
TEXT: Descriptive text displayed to the caller.
PHONE: Phone number formatting. The letters NO in this spot will allow free-form phone numbers. Like the ones used in Europe. If all your calls are from the US you should use the (###) formatting codes to force correct data entry. Other examples are:

France	##-##-##-##
Germany	##-##-#####

You can use whatever format you like, but you're limited to 14 characters.
To edit the actual language files use Config section E (Languages Setup.)

9.2.5 DISPLAY FILES #1

Display files are ASCII or ANSI screens that are DISPLAYed to users. You should always have the ASCII screens, as this will work for 99% of callers. The ANSI and now RIP script graphics screens are optional. Though they are optional, they often create the special atmosphere that most Sysops strive for on their board. With them you can create the illusion of travelling down a dark tunnel, to get to the doors. Looking through a window to view a picture or text file....

To edit these files you will need an ANSI/ASCII editor, such as THEDRAW. You will need to enter the full path\file name to the editor in the OPTIONS #3 screen, item #11. Once you have done this, use the mouse to click on the EDIT button next to the screen you want to look at or change. You see a dialog box with:

Edit Screen? (YES = ANSI/NO = ASCII)

I suggest you always edit the ANSI screen first. That way, after you have saved the ANSI screen, just save it again as an ASCII screen!

To set up security level sensitive menus and screens, you will have to create the relevant screens, and save them with the security level added to the name.

Menuc	is the normal color menu
Menu10c	is the color menu for sec level 10 callers.

See the "Screens" section for addition information.

CODES # Description

D 1. Path\File to Sysops Menu
D 2. Path\File to Opening Screen
D 3. Path\File to Hello Screens
D 4. Path\File to Birthday Screen
D 5. Path\File to Expired Screen
D 6. Path\File to Forum Screen
D 7. Path\File to Newuser Screen
D 8. Path\File to Logoff Screen
D 9. Path\File to No Chat Screen
D 10.Path\File to Enter Chat Screen
D 11.Path\File to Exit Chat Screen
D 12.Path\File to Quesionnaire Screen
D 13.Path\File to Bad Ratios Screen
D 14.Path\File to Create Script Screen
D 15.Path\File to End/Save Script Screen
D 16.Path\File to Read Menu

D Default works fine

1. PATH\FILE NAME OF SYSOP'S MENU
The Sysops Menu Screen describes the options available to the sysop. Only shown when Xpert is turned off. Sysop's Menu Screen options are described more fully in SECTION 9.6, MENUS SETUP.

2. PATH\FILE NAME OF OPENING SCREEN
This screen is shown at logon, before the caller gives a name.

3. PATH\FILE NAMES OF HELLO SCREENS
The Hello screens are displayed right after the caller gives a name. You may have upto 9 Hello screens with file names Hello1 to Hello9. The sequence is consecutive. If a filename is not found, the hello stops. You cannot have Hello1, Hello5, Hello9, but Hello1, Hello2, Hello3.

NOTE: Hellox is ASCII & HelloxC is for color Mode.

4. PATH\FILE NAME FOR BIRTHDAY SCREEN
The Birthday screen is displayed on a callers Birthday. The tracking of birthdays is turned on and off in OPTIONS #1, item 8.

5. PATH\FILE NAME TO EXPIRED SCREEN
Displayed when a caller's Expiration date has been reached.

6. PATH\FILE NAME TO FORUM SUB-MENU
This screen will show the caller the forums that are available for him to join. I will explain in the Menus Setup section how to split a large number of forums into managable groups.

7. PATH\FILE NAME TO NEWUSER SCREEN
This screen is displayed to a newuser logon. Right before asking the caller if he/she would like to register. It's a good place for a description of your board!<g>

8. PATH\FILE NAME TO LOGOFF SCREEN
Displayed on logoff, after (G)oodbye, (Y)es is chosen.

9. PATH\FILE NAME TO NOCHAT SCREEN
Displayed when the Sysop's pager is off, or the pager is on and the sysop didn't responded.

10. PATH\FILE NAME TO 'ENTER CHAT' SCREEN
Displayed as the Caller and Sysop enter chat mode.

11. PATH\FILE NAME TO 'EXIT CHAT' SCREEN
Displayed as the Caller and Sysop exit chat mode.

12. PATH\FILE NAME TO QUESTIONAIRE SUB-MENU
Displayed when Main Menu Command Q is chosen.

13. PATH\FILE NAME TO 'BAD RATIOS' SCREEN
Displayed to users when they try a download, but they are not permitted to do so because they have either not uploaded or not left enough public messages.

14. PATH\FILE NAME TO 'CREATE SCRIPT' SCREEN
Displayed to callers that enter 'Script' mode.

15. PATH\FILE NAME TO 'END/SAVE SCRIPT' SCREEN
Displayed to callers that have saved a script file.

16. PATH\FILE NAME TO READ MENU
Displayed to callers that select Read Messages.

9.2.6 DISPLAY FILES #2

CODES # Description

D 1. Path\File to Read Help Screen
D 2. Path\File to Begin Download Screen
D 3. Path\File to Begin Upload Screen
D 4. Path\File to File Ratios Screen
D 5. Path\File to Statistics Screen
D 6. Path\File to Monitor Screen
D 7. Path\File to Live Programs Screen
D 8. Path\File to Bulletins Screen
D 9. Path\File to Update User Info Screen
D 10.Path\File to Clock Screen

D 11.Path\File to Chat Help Screen
D 12.Path\File to Low BaudRate Screen
D 13.Path\File to 30 Day Expiration Screen

D Default works fine

1. PATH\FILE NAME TO 'READ HELP' FILE
Help text file, displayed when reading messages.

2. PATH\FILE NAME TO 'BEGIN DOWNLOAD' SCREEN

3. PATH\FILE NAME TO 'BEGIN UPLOAD' SCREEN
Files shown when [D]ownload & [U]pload are chosen at the File Menu.

4. PATH\FILE NAME TO 'FILES RATIO' SCREEN
This file is shown to the user after he/she has either completed a transfer, or selects to view this file via the Files Menu.

If you do not want ratios, you can make up any screen. Such as "Welcome to the Files Area", etc.

PLEASE note the macros available to the Files Ratios Screen:

|MMR| MINIMUM Message/Calls Ratio
|YMR| Users Message/Calls Ratio
|MFR| MINIMUM Downloaded/Uploaded files Ratio
|YFR| Users Downloaded/Uploaded files Ratio
|MBR| MINIMUM Downloaded/Uploaded Bytes Ratio
|YBR| Users Downloaded/Uploaded Bytes Ratio

|GOOD_MR| This tells the user about his/her Message Ratio
|GOOD_FR| This tells the user about his/her File Ratio
|GOOD_BR| This tells the user about his/her Byte Ratio

5. PATH\FILE NAME TO STATISTICS SCREEN
The screen should display to the user his current statistics, and standings.

6. PATH\FILE NAME TO 'MONITOR' SCREEN
This file is displayed when a caller is selecting his/her monitor type.

7. PATH\FILE NAME TO 'LIVE PROGRAMS' SCREEN
This sub-menu, should display to the user, the live programs available.

8. PATH\FILE NAME TO BULLETIN SCREEN
Displays bulletins available for viewing.

9. PATH\FILE NAME TO 'UPDATE USER INFO' SCREEN
Displayed when the user wants to update his basic user info.

10. PATH\FILE NAME TO CLOCK SCREEN
This is a text file, which you can customize, but should contain the current date and time macros.

11. PATH\FILE NAME TO CHAT HELP SCREEN

This file is displayed when entering chat mode.

12. PATH\FILE NAME TO 'LOW BAUDRATE' SCREEN
Displayed to callers that are at too low a baudrate to download a certain file. You can set a minimum baud rate in the communications setup. If the user does not have this minimum baud rate, this screen will be displayed and they will be logged off automatically.

13. PATH\FILE NAME TO '30 DAY EXPIRATION WARNING' SCREEN
Displayed to users that are within 30 days of expiration (on the board.)

9.2.7 FILE PATHS

CODES	#	Description
D	1.	Path to dir containing sec screens
D	2.	Path/File to Uploaders Data file
D	3.	Path to restricted files directory
D	4.	Listing containing restricted files
D	5.	Path/File to users file
D	6.	Path/File to forum data file
D C	7.	Path/File to Script for newusers
D C	8.	File to contain answers to above

D	Default works fine
C	Change to your choice

1. PATH TO DIR CONTAINING SEC SCREENS
Security Messages are message text screens, displayed to the user on arrival to your BBS (right after the password is given). If no file is available, none is displayed. This directory contains security messages. This Path must end in a \. Example: C:\POWRBBS\SEC\

Security Screen names begin with 'WEL', and end in the security level of the caller. A caller with security level 20, will be shown the file WEL20 in the directory you specify (or WEL20C if the caller is in COLOR mode).

2. PATH\FILE NAME TO UPLOADERS DATA FILE
This file is created by PowerBBS as a pure ASCII file. After an upload the filename and user name plus modem statistics will be written to it. This file will be used by some bulletin creation programs for BEST/WORST Uploaders Bulletins.

3. PATH TO RESTRICTED FILES DIRECTORY
This is the path where uploads the caller wants only the sysop to see, will be put. If you set all uploads to be restricted, then all uploads will be sent to this directory. Otherwise, only files which are specified by the user to be for the SYSOP only, will be sent here.

4. LISTING CONTAINING RESTRICTED FILES
This is the path/filename of the file which will list private uploads. (Those uploads contained in the restricted directory.)

5. PATH\FILE TO USERS FILE

This file is used to store all user data base information. This file should be the same on all nodes. You can edit information in this file via the Sysop's menu [U]pdate user command.

6. PATH\FILE NAME OF FORUM DATA FILE
This file is used to store all the forum information. This file should be the same on all nodes. You can edit the Forum Data File, via Config's FORUM SETUP MENU [B] option.

7. PATH\FILE NAME TO SCRIPT FOR NEWUSERS
Enter the path/filename to the file (ASCII file), which will contain the QUESTIONNAIRE (see questionnaire section for information on creating such a file)
Example:

C:\POWRBBS\WORK\QUEST1

8. FILE TO CONTAIN ANSWERS TO ABOVE
The path/file you enter here, will hold the output to the above questionnaire for new users. Example:

C:\POWRBBS\WORK\ANSWER1

9.2.8 OPTIONS #1

CODES	#	Description
C	1.	Minimum Msgs/Calls Ratio
C	2.	Minimum Down/Upload Files Ratio
C	3.	Minimum Down/Upload Bytes Ratio
C	4.	Minimum Security to Bypass Ratios
D	5.	Maximum # of Msgs for Mail File
CS	6.	Restrict all Uploads?
D	7.	Most Idle Mins Before Auto Logoff
CS	8.	Track Users Birthdate?
D	9.	Char displayed, when echo off
D S	10.	Delete Uploads when Carrier Dropped?
D	11.	Path\File to node status data file
D	12.	Path\File to whose chatting file
D	13.	Path\File to talking temp file
CS	14.	Allow ONE Word Names?
CS	15.	Do you want MULTI-LANGUAGE support?
DCS	16.	Are you running PowerMail?

D	Default works fine
C	Change to your choice
S	Select

1. MINIMUM MSGS/CALLS RATIO
This is the ratio of messages left, to calls made that users need to download files.

RATIO	WHAT TO DO IN ORDER TO DOWNLOAD
100	Leave 1 message per call
50	Leave 1 message per 2 calls
25	Leave 1 message per 4 calls
0	No message/calls ratios apply

2. MINIMUM DOWN/UPLOAD FILES RATIO
This is the minimum number of uploads your callers need to make in order to download files. This is the total number of files uploaded and downloaded. It does not matter how large or small the files are.

RATIO	WHAT TO DO IN ORDER TO DOWNLOAD
100	Leave 1 uploaded file per download
50	Leave 1 uploaded file per 2 files downloaded
25	Leave 1 uploaded file per 4 files downloaded
0	No upload/download ratios apply

3. MINIMUM DOWN/UPLOAD BYTES RATIO
This is the minimum number of bytes users must upload per byte they download. This is the total number of bytes transferred. What matters isn't the number of files, but the total number of bytes.

RATIO	WHAT TO DO IN ORDER TO DOWNLOAD
100	Leave 1 uploaded byte per downloaded byte
50	Leave 1 uploaded byte per 2 bytes downloaded
25	Leave 1 uploaded byte per 4 bytes downloaded
0	No upload/download ratios apply

4.MINIMUM SECURITY LEVEL TO BYPASS THE RATIOS
At this security level and higher users do not have to worry about ratios. No matter what the ratio is, they can download.

5. MAXIMUM # OF MESSAGES FOR MAIL BAG
The maximum number of messages a caller can compress using the [D]ownload function in the mail menu.

6. RESTRICT ALL UPLOADS
If you do not want your users to download/view NEW uploads, you should check this box. If you want your users to download/view NEW uploads leave this box blank. NOTE: If this is box is checked, all uploads are sent to the restricted directory and listed under the restricted files listing.

7. MOST IDLE MINUTES BEFORE AUGO LOGOFF
The most time in minutes PowerBBS will wait until it hangs up the caller. If set to 0, the caller can be idle for as long as he/she has time.

8. TRACK USERS BIRTHDAY?
Checking this box gives you the ability to turn on asking the callers for his/her Birthdate.

CHECKED: Normal Setup. Asks users for his/her birthdate, and tracks his/her age.

NOT-CHECKED: Will not ask user for his/her birthdate, and Age will be UNKNOWN. You will no
longer be able to view the callers age at the bottom of the screen.

9. CHAR DISPLAYED WHEN ECHO OFF
This character is displayed when PowerBBS is not echoing what the caller is sending, such as when a password is being given. If you select * it'll look like:

Enter your Password: ********

10. DELETE UPLOADS WHEN CARRIER DROPPED?
Checking this box gives you the ability to delete or keep a file, when a caller has completed an upload and a description is not given, because the caller has hung up or has been disconnected for some reason.

CHECKED: PowerBBS will delete new uploads when a caller has not given a description of
the file, and the caller has hung up or disconnected. The User is NOT GIVEN upload credit.

NOT-CHECKED: When a caller uploads a file, not given a description, then hangs up when a description is asked, the description: "User Dropped Carrier", will be given, and the file will be placed where it belongs.

11. PATH\FILE TO 'NODE STATUS' DATA FILE
This file holds the information shown on the "(W)ho is online" information screen.

12. PATH\FILE TO 'WHOSE CHATTING' FILE
This holds the node numbers of (w)ho is chatting.

13. PATH\FILE TO 'TALKING' TEMP FILE
This is a temporary file where all the text from chat is written. The other nodes will pick up new information and display it during chat. When there is no one chatting this file is deleted. It is then created when new chat begins.

These entries should be the SAME on ALL nodes.

14. ALLOW ONE WORD NAMES?
CHECKED: This is generally for boards that allow Handles. It allows for one word names. Example
Names: Junkman, Killer, Stranger

NOT-CHECKED: If you do not want one worders. Users must use AT LEAST two words.
Example Names: John Doe, Billy Green, Howy Rose, The Junkman

15. DO YOU WANT MULTI-LANGUAGE SUPPORT?
If you want only the default English language, leave this box blank. All the text displayed to
the user will be language file #1 (1.Lan), which can be editted in Config section [E].

If you will have callers from other countries and want to have a selection of languages, at logon, then CHECK this box. PowerBBS will use the Datafiles screen option #10 file, for its language information. This will give you the ability to have different .LAN files, which all can be editted in the language setup of Config.

16. ARE YOU RUNNING POWERMAIL?
If you want your users to be able to download mail (into .QWK packages), so they can read mail offline, check this option. Users will then be able to also upload mail.

9.2.9 OPTIONS #2

CODES # Description

```
D C    1.Command to View Compressed Files
D C    2.Command to Test Compressed Files
D      3.Command to Compress Mail File (not used)
D CS          4.Are you running a CLOSED BBS?
D C    5.Path\File to CLOSED script file
D C    6.Path\File to CLOSED answer file
  CS   7.Permit forums to have ANONYMOUS NAMES
D      8.Path\File to ask for Anon-Name Screen  (not used)
D C    9.Minimum Security Needed to Abort INtro

  D    Default works fine
  C    Change to your choice
  S    Select
  N    Different Each Node
```

1. COMMAND TO VIEW COMPRESSED FILES
This command line is run to get a listing of files inside of a compressed file.

2. COMMAND TO TEST COMPRESSED FILES
This is the command line to test the validity of a compress file.

3. COMMAND TO COMPRESS A MAILBAG
This is the command line to compress the mail file.

4. ARE YOU RUNNING A CLOSED BBS?
CHECKED: If you do not want users added to the users database automatically. Instead, the new
user must answer the CLOSED script questionnaire, and is logged off. You will have to add the new user manually from the Sysop Menu, Option 'U'.

NOT-CHECKED: For normal BBS operation, where new users are permitted to log on and be added to the users database file automatically.

5. PATH\FILE NAME TO CLOSED SCRIPT FILE
This is the questionnaire script that prospective users will have to answer if you run a CLOSED BBS.

6. PATH\FILE NAME TO CLOSED ANSWER FILE
This is where the answers to the CLOSED Script file are stored.

7. PERMIT FORUMS TO HAVE ANONYMOUS NAMES?
If you want your users to have messages from ANONYMOUS, you must check this box (you will also select the option in the forum setup).

9. MINIMUM SECURITY TO ABORT INTRO
Security levels at or above this will be able to abort the old intro news screens.

9.2.10 OPTIONS #3

```
CODES   #   Description

 D  C   1.Maximum Lines to a message
```

```
 D  C   2.Halt uploads when drive has K bytes
 D  C   3.Normal default color
 D  CS   4.Permit color in messages
 D  CS  5.Permit high ASCII characters
NDC     6.Path/File to Batch Created for LPT
 D      7.Directory Containing Index Files
 D      8.Ramdisk Dir with Index Files
 D      9.PowerInfo Path\File
 D      10.Path\Filename to Noscroll File (not used)
    C   11.Path\Filename to ASCII\ANSI Editor
    C   12.Tagline for PowerNet

  D     Default works fine
  C     Change to your choice
  S     Select
  N     Different Each Node
```

1. MAXIMUM LINES PER MESSAGE

Enter between 50-250 lines for a message.

2. HALT UPLOADS WHEN DRIVE HAS .. K-BYTES

Stop uploads when upload drive has this much space left. Enter in K Byte size. Example:

200 - When 200,000 bytes are left, no more uploads are permitted.
1000 - When 1,000,000 bytes are left, no more uploads are permitted.

3. NORMAL DEFAULT COLOR

This is the color shown as the caller types. This is only used when the caller has a [C]olor Monitor. You must type in the ANSI color code of the color you desire.

Color Codes:

31 - Red 32 - Green 33 - Yellow 34 - Blue 35 - Magenta
36 - Cyan 37 - White

4. PERMIT COLOR IN MESSAGES

This has been put in because there have been people going around putting ANSI codes in messages, which can do strange things under normal DOS ANSI.SYS (such as redirect keys). Also, color messages also cause problems for people who have color turned off. Leave this box blank if you do not want to permit color in messages. If checked, messages can be entered with ANSI codes.

5. PERMIT HIGH ASCII CHARACTERS

You should check this box, unless you are having programs with high ASCII codes.

6. PATH\FILE TO BATCH FILE CREATED FOR LPT

This is a .BAT file which is created for live programs (LP), and for transfers (T). This file SHOULD BE DIFFERENT FOR EACH NODE.

Examples: LIVE.BAT LIVE1.BAT PROG1.BAT

7. DIRECTORY CONTAINING INDEX FILES

This is the path of the directory which will contain your index files. The index files are used so PowerBBS will find if a user exists on disk (at logon) very quickly. The path should exist on disk, and end with a \. Example:

C:\POWRBBS\INDEX\ (NOT C:\POWRBBS\INDEX)
D:\INDEX\

8.RAMDISK DIR WITH INDEX FILES
This is the path to your ramdisk index file. If you do not want to use this, leave this blank. If you decide to use this function, you should create this directory in your Autoexec.bat, and also copy your DISK copy of the indices to your ramdisk.

9. POWERINFO PATH\FILE
This is the file which contains the number of calls to the system, and the pager/display information. This file should be the same on all nodes. Example:

C:\POWRBBS\POWRINFO.BBS
NOTE: Be sure to include the FULL path in this entry! This file should be placed on a Hard Disk. Not a Ramdisk, since it is important information.

Line #1: Number of Calls to your BBS
Line #2: Display On/Off
Line #3: Pager On/Off

The LENGTH of this entry, should be AT LEAST 3 characters.

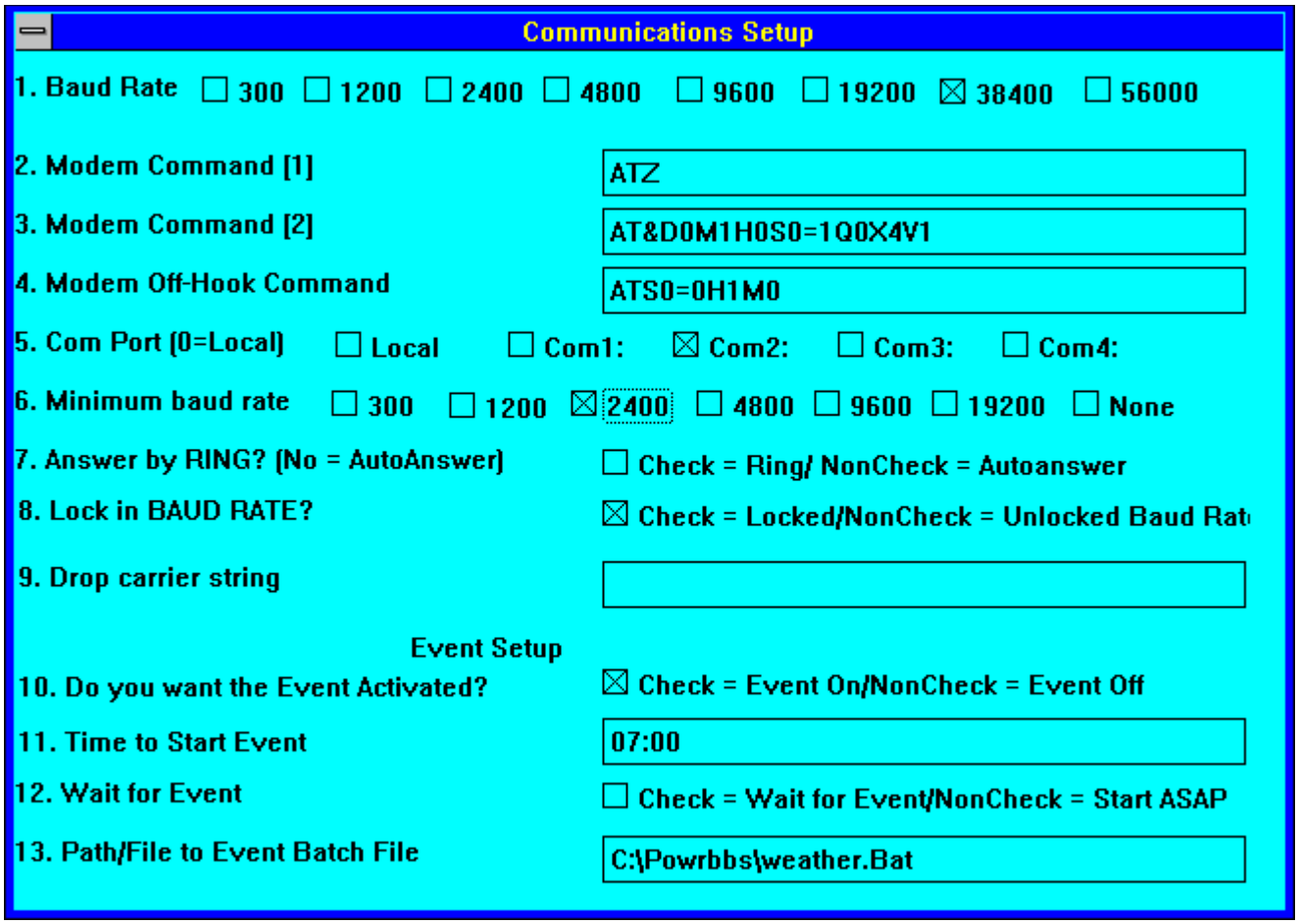
10. PATH\FILE NAME TO NOSCROLL FILE
THIS ENTRY IS NOT USED FOR PowerBBS/Windows.

11. PATH\FILE NAME TO ANSI/ASCII EDITOR
Enter the path to your editor, such as TheDraw. If left blank you will not be able to edit your screens from within CONFIG.

12. TAGLINE FOR POWERNET
If you are setting your BBS up to permit others to transfer mail from your system (via QWK mail capabilities), place the tagline you would like to use. Be aware that PowerBBS will add this tagline to all users who are setup as a QWK-NET user. See "POWERNET" section for complete information.

9.2.11COMMUNICATIONS SETUP

The Communications setup is the important for proper communication between your computer and your remote users computers. You are going to have to set up the commands to meet the needs of your modem. You should be thoroughly familiar with the commands for your particular modem. Read the information carefully. Remember that proper modem setup is a must for correct operation of your BBS.



See the MODEM INFO section for a clear description of setting up your modem! You should read that section before setting up this section of PowerBBS.

1.HIGHEST BAUD RATE
PowerBBS provides serial I/O support for speeds of up to 56,000 baud. However, you must NOT enter a baud rate higher than your modem or your serial port's UART actually supports. Check the box of the baud rate of your modem here, such as 300, 1200, 2400, 4800, 9600, 19200, 38400, or 56000 in the space provided. If you are not sure what your modem supports check your modem manual before going on.

2.MODEM COMMAND[1]
Before waiting for a call, PowerBBS initializes the modem. This is the first command string that PowerBBS will send to the modem.

3.MODEM COMMAND[2]
This is the second command string that PowerBBS will send to the modem.

4.MODEM OFF-HOOK COMMAND
This is the command to send to the modem, to put it off-hook (like picking up the phone so no one may call).

5.COM PORT

Select the COM port that you would like PowerBBS to communicate with.

6.MINIMUM BAUD RATE
Select the minumum baud rate that is required for users to access your system.

7.ANSWER BY RING
Check to permit PowerBBS to detect a ring and send 'ATA' to the modem to answer the phone. If you do not check, you have to turn auto-answer mode on in your modem initialization. (Again see the MODEM INFO section for more information).

8. LOCK IN BAUD RATE
If you check this item, PowerBBS will ALWAYS send data to the modem at the highest baud rate (specified by the above option #1). (Again see MODEM INFO)

9.DROP CARRIER STRING
This is the command to send to the modem to drop a carrier, that is to force the modem to disconnect..

9.2.12 Event Setup

PowerBBS offers a powerfully simple event system. An event is a batch file, which is run daily at a specified time. You can run utility programs, such as powrpack, to keep your BBS up to date.

* If you want an event active, check entry #10
* Set Entry #2 to the time to begin your event
* Enter the path/filename to the event.bat file you will be using

Here is an example batch:

```
C:\POWRBBS\STATS C:\POWRBBS\DATA\USERS C:\POWRBBS\SCREEN\HELLO4 10
COPY C:\POWRBBS\SCREEN\HELLO4*.* G:\POWRBBS\SCREEN\*.*
```

10.DO YOU WANT THE EVENT ACTIVATED?
If you want to have an active event, CHECK THIS ITEM.

11.TIME TO START EVENT
This is the time to start the event. Enter in the form of XX:XX. Examples: 01:30 05:30 12:30 15:30 17:30 Times should be from 00:00 to 23:59

12.WAIT FOR EVENT
If you check this item, PowerBBS will permit a user to use their full online time even if an event is pending; the event will run after the caller logs off. If this is not checked, PowerBBS will reduce a callers time, so that the Event will be run at the current time.

13.PATH/FILE TO EVENT BATCH FILE
Enter the path to your .BAT file for your event. Example: C:\POWRBBS\ EVENT.BAT. Remember that this file name should differ from node to node if you are running a multi-node BBS.

9.2.13 Test Files Setup

The Test Files Setup, includes options for you to set up your system to test newly uploaded files. There is a complete section on testing uploaded files, see

Section 20.

CODES # Description

D CS 1.Test New Files After Uploaded
D 2.Path\File Name of Test Batch
D 3.Path\Filename to Temp Err File

D Default works fine
C Change to your choice
S Select
N Different Each Node

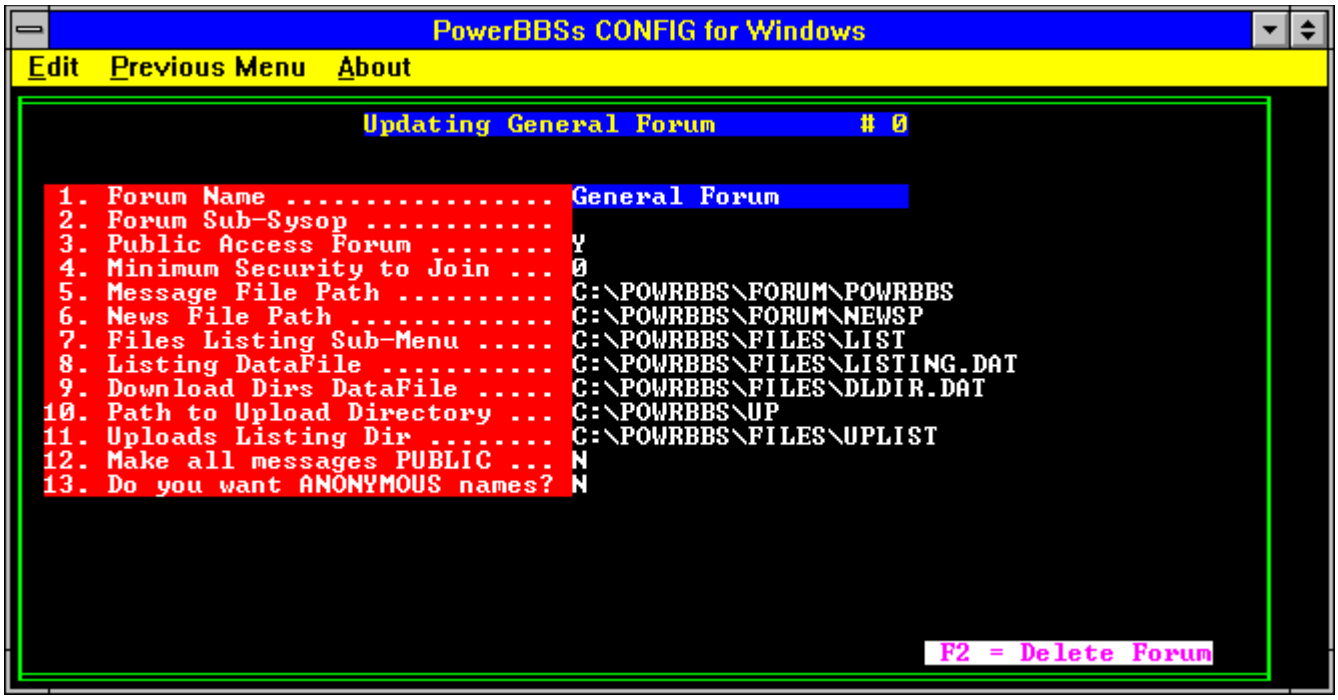
1. TEST NEW FILES AFTER UPLOADED
Check this item, if you want to run the test batch file for each file that is uploaded.

2. PATH/FILENAME OF TEST BATCH
Path/Filename to the batch file which will be loaded to test each new uploaded file.

3. PATH/FILENAME OF TEMP ERR FILE
This is the Path/Filename to the Temp Error File created by your Batch file when an error is found in the compressed file. If PowerBBS finds this file, it knows an error occurs.

9.3 Updating Forums

Section 2 of config, permits you to edit the forums on your BBS. You may have up to 1000 different forums, each of which MAY have their own message base and file area. Upon entering this area, you will be shown the following screen:



9.3.1 Creating a new forum

To create a new forum, press PgDn until you come to a forum with no forum name. Enter a forum name (you must start with a letter). Press <Enter>. After entering the forum name, you'll notice that all the other entries have been filled in with defaults. Validate that they all are valid path filenames. As you can see, you do not HAVE to have a different message/file area. By editting the entries, you set up the forum in a fashion you wish.

1.FORUM NAME

This is the name of the forum as it will be displayed to users.

2.FORUM SUB-SYSOP

If you choose to have a sub-sysop for the forum, place the name here. Be aware that the Sub-Sysop can read/delete all message (including private messages). If you do not want your Sub-Sysop to read private messages, do not permit private messages in this forum (See Entry #12).

3.PUBLIC ACCESS FORUM

If you want all users to have access to this forum automatically (as long as they have high enough access as declared in entry #4), select this option.

If you do not select this option, the forum is known as a PRIVATE forum. NO users will have access (not even yourself!). To give users access, you need to enter the SysOps menu's Update User command, and give someone access.

4.MINIMUM SECURITY TO JOIN

This is the security level needed for a user to access the forum. No exceptions.

5.MESSAGE FILE PATH

Path to the actual file storing the messages.

6.NEWS FILE PATH

Path to a news, or general forum information screen. This file is displayed to the user whenever changing to this particular forum.

Entry #7,8,9,10, & 11 are explained in the Files Setup Section
7.FILES LISTING SUB-MENU
8.LISTING DATAFILE
9.DOWNLOAD DIRS DATAFILE
10.PATH TO UPLOAD DIRECTORY
11.UPLOADS LISTING DIRECTORY

12.MAKE ALL MESSAGES PUBLIC

If you check this, no private messages will be posted in the forum. If a user tries to send a private message, it will be moved into forum #0. (Forum #0 cannot be a public only forum!)

13.DO YOU WANT ANONYMOUS NAMES?

If you want users to be able to use their anonymous name in this forum, select this option.

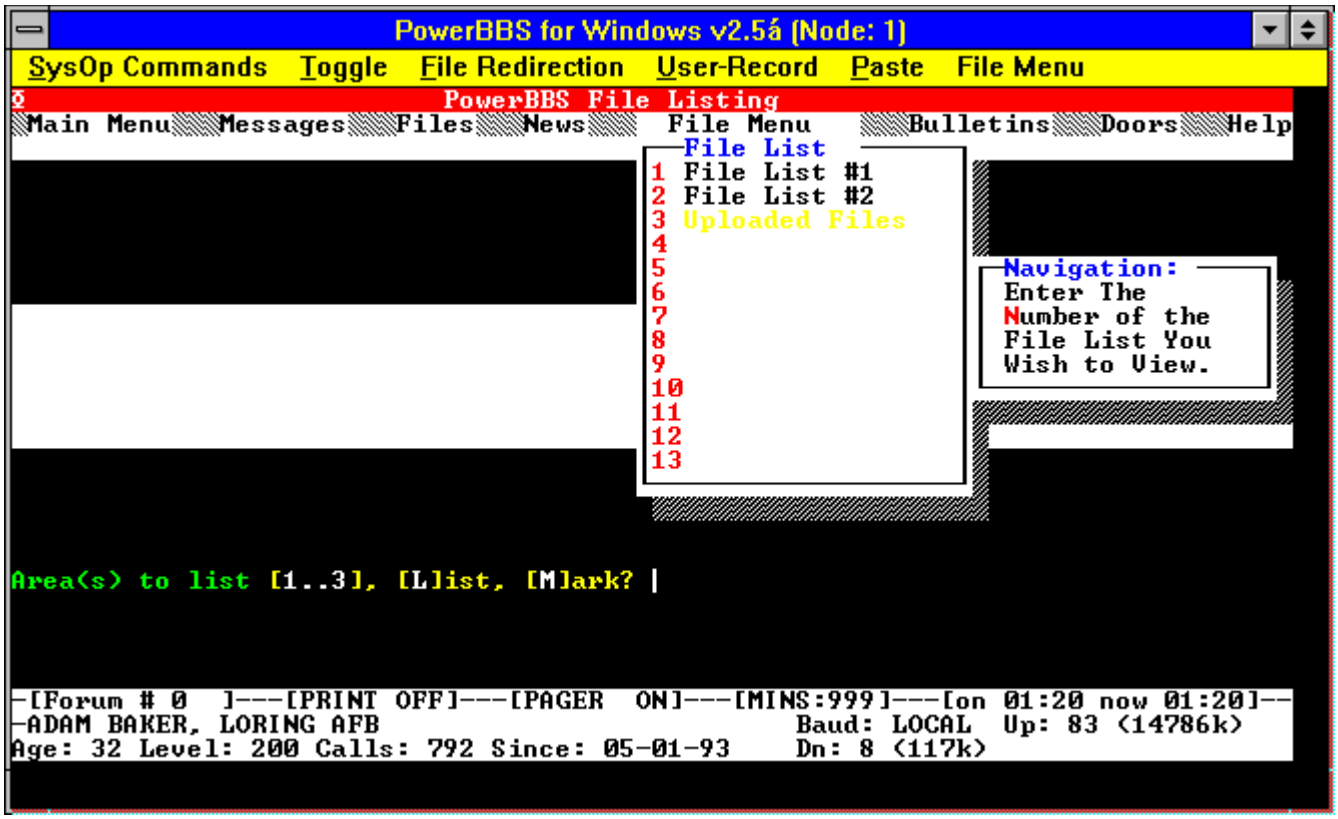
9.4 Setting up Files

The files section of a BBS is usually one of the most popular areas for users. The ability to transfer files over the modem, and to download shareware programs (or other types of files that are available on your system) is a major incentive for people call your BBS. PowerBBS provides facilities for you to organize your files and provide your users access to them.

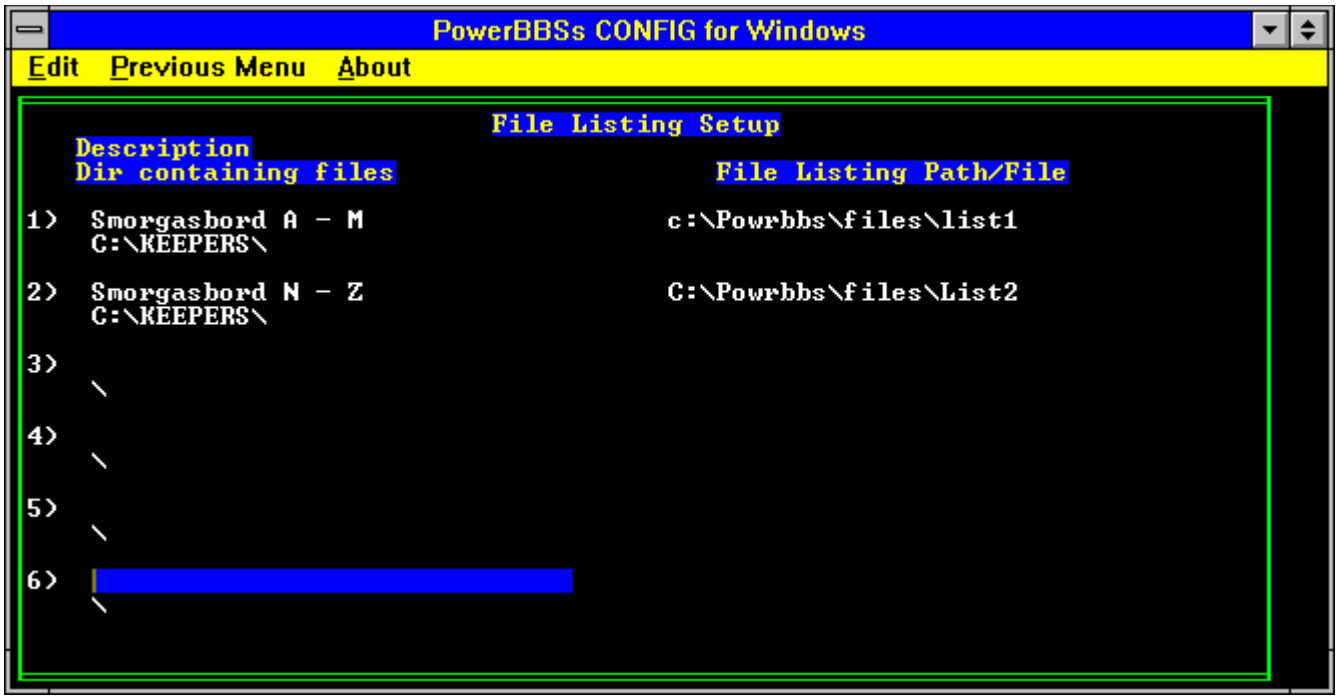
PowerBBS's file structure begins in the forum areas. Each forum may have their very own files area (you can have a Windows forum with only Windows files). You can however have the same file area for all forums, or certain forums. So you do not have to have a separate section for each.

To begin, enter the forum section of config. (See previous section on Forum Setup for Forum Setup Image).

Entry #7 is just a screen containing a directory of different file areas on your BBS. It is only an ASCII file (here: C:\POWRBBS\FILES\LIST) and an ANSI file (here: C:\POWRBBS\FILES\LISTC). You create the screen just as you would any other screen. This screen is displayed to the user as soon as they enter the List command of your BBS.



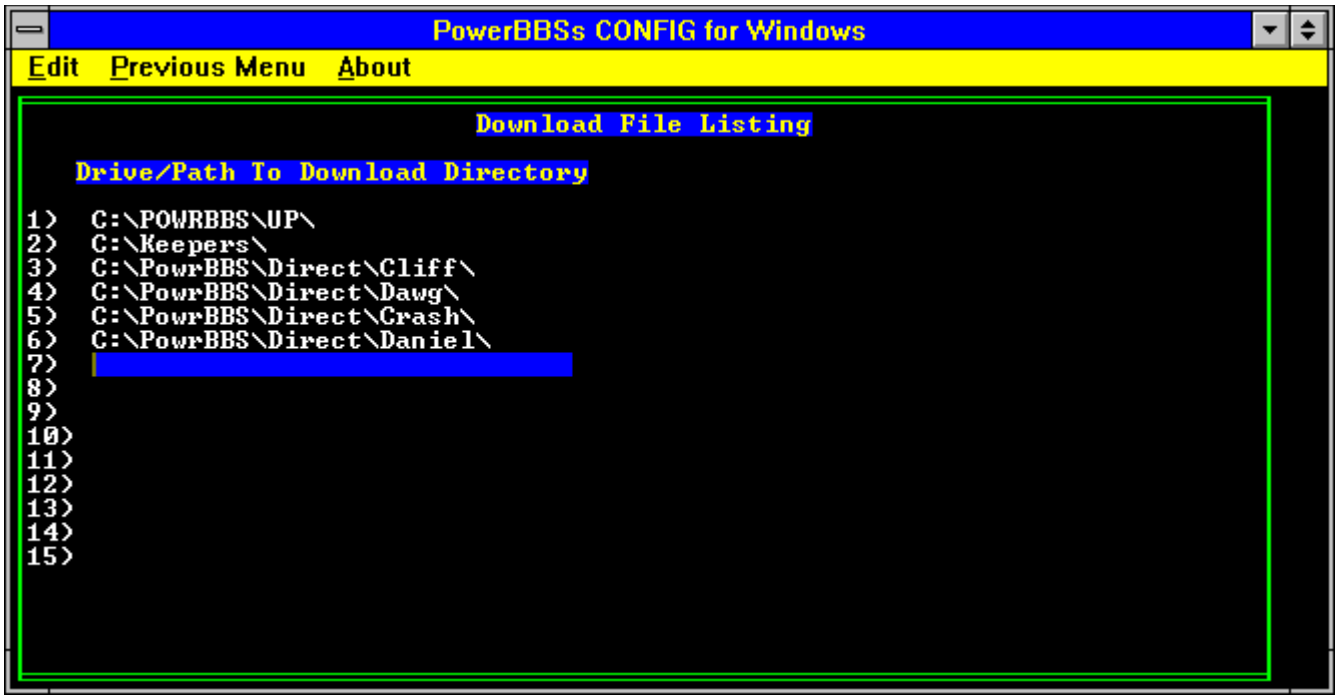
After you create the ASCII/ANSI files for the above screen, next return to CONFIG. You now need to edit entry #8 the "Listing Datafile". This important file contains the information to your files listings (this information is used by PowerBBS's File Manager for tracking your files).. The file lists themselves are only ASCII files. When you are on the entry #8 in Config type F1. This will bring you to the following screen:



Each screen can hold 6 entries (use PgDn to get another set of 6). You may have up to 250 file listings entry in each forum.

Entry #1 (Description):	Place a description of the files in this area.
Entry #2 (File Listing Path/File):	Place the full path/filename to the file containing the actual lists of files. (File Manager might limit the size of this file)
Entry #3 (Dir Containing Files):	Place the path to the directory with the actual files.

Once you have completed that, PowerBBS will list all the files correctly (you can also use PowerBBS's File Manager). However, you need to edit Entry #9 the "Download Dirs Datafile". This entry contains all the list of directories that you want your users to access. When you select D from the PowerBBS file menu to download a file ONLY THESE DIRECTORIES are checked. On Entry #9, press F1 for the following screen:



As you can see this is just a listing of the directories themselves. Entry #1 is the uploads directory, #2 is the C:\POWRBBS\FILES1\ directory, etc. When PowerBBS searches for a file, it first searches entry #1, then #2, etc. You may have up to 200 directories for each forum.

Entry #10 is the Uploads Directory, enter the full path to the directory where you would like your files uploads to be placed.

Entry #11 is the Uploads Listings, enter the full path/filename to the ASCII file where you would like the actual file listing to be placed.

9.5 "FILES SETUP" Section Of Config

PBBSFMGR First Look:

When you First run PBBSFMGR you are shown an about box in front of the main parent window. On the menu bar, you will find three selections:

1.) File:

This selection opens to include three selections:

1.) Open: This selection Opens a Child Window Displaying a Forum/Area File List.

2.) Change *.DAT: This selection Unloads the Current PBBS DATA and Loads in a New .DAT file. Useful if you are running different files on different nodes.

3.) Exit: This selection Exits PBBSFMGR, you will be given a chance to Save any Unsaved data.

2.) Configure:

This Selection Opens The Configure window. Please read the section on Configuration for more details on this subject.

3.) Help:

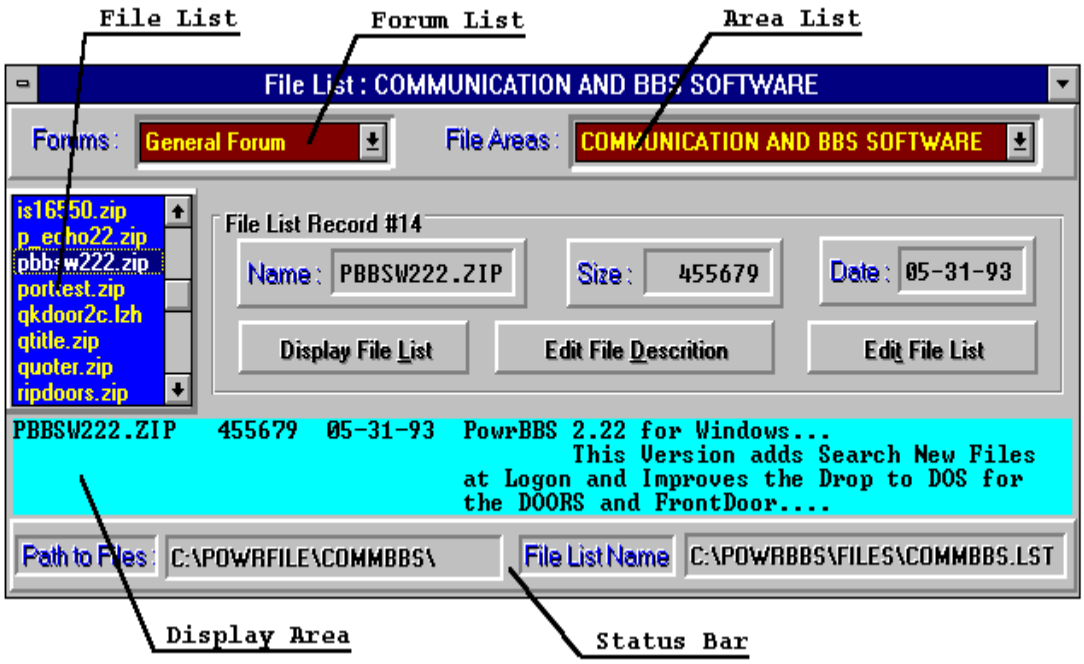
This selection opens to include two selections.

1.) Contents: This selection will open the PBBSFMGR.HLP file and display the contents.

2.) About: This selection will display the about window.

9.5.1 Opening a file list:

The first thing you should do is open a file list. This is a simple task of selecting the File menu and then selecting Open. After opening a file list you will see the window below:



As you can see, all the important information about your file list is displayed in this window. You may open up to eight (8) of these windows at any one time. This is the Power of PBBSFMGR. If you Open two or more of these windows you can Drag Files from the File List of one window to the Display Area of another window. Or you can place the cursor on a file name in the display Area and press the <Enter> key and PBBSFMGR will locate the info and display it. Play around with the Menu selections, Search through your list for "Files Not In List", or Find out how many files are in the list, (Select the Info menu selection.).

9.5.2 Configuration:

There is not much to configure. You may Set the Path/FileName of the External Editor (defaults to C:\WINDOWS\NOTEPAD.EXE). You may turn the Drag-Drop confirmation on or off. You may select MOVE or COPY on Drag-Drop operations, if you select copy, you may either choose to copy only the file, the description, or both. That's it.

9.5.3 Notes on PBBS FileManager:

The clip board routines only copy,cut, and paste to/from the file list. They will not affect the files on your disk. Only the Drag-Drop, and delete routines will affect your files on disk. ***ALLWAYS MAKE BACK UPS BEFORE TRYING ANYTHING NEW ON YOUR FILES OR FILE LIST!***

9.5.4 VBRUN

Because PowerBBS's File Manager was written in Visual Basic, it requires VBRUN (as of this printing VBRUN200.DLL is required). If you do not already have this file, download it from your local BBS and place it into your \WINDOWS directory.

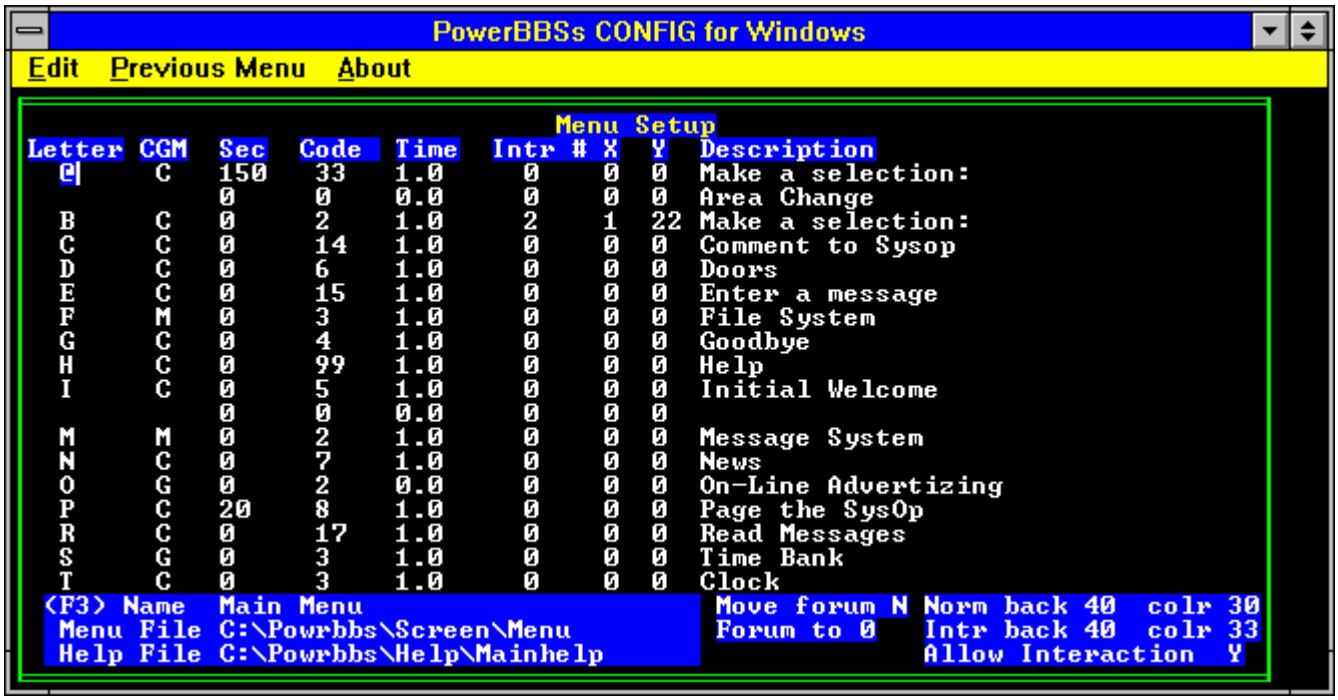
9.6 Menus Setup

All the menus on your BBS are configurable. You can make your system look like another BBS program, or customize it to suit your users better. By entering the Menus Setup, you are first asked:

Enter Menu # to edit:

By typing 1, you will edit menu number 1 (default storage is C:\POWRBBS\SOURCE\1.MNU). BTW- Menu #1 is always the first menu users are brought to. The sample menus that come with the package are as follows, 1 - main menu, 2 - message menu, 3 - file menu.

By typing 1, you can now edit menu #1:



Displayed will be the complete menu editting system (note that by typing PgDn, you can have more commands to a menu!).

1.LETTER

This is the one character input from the user that is required to enter the

command. Example: A must be typed to enter the Area Change Command.

2. CGM

This option tells PowerBBS exactly what the command itself does. Type either C, G, or M.

C: Refers to a built-in command. These are choices programmed into PowerBBS. Look at section 9.6.1, Built in Commands Char, for a complete list of functions available.

G: Refers to a PowerLang file. PowerLang is a simple language which permits you to create your own commands. It is a script based BASIC type language.

M: Refers to a Menu. This permits you to let your users move to different menus.

3. SEC

This is the minimum security level that a user requires to enter the menu option.

4. CODE

This is the code # for the command. The code number plays different roles, depending on whether you are in C,G, or M mode.

C: Use section 9.6.1, Built-in Commands chart, for the number. Example: 1 is the built in command number for area change. By typing 1, this menu command calls the Area Change Menu.

G: Enters the PowerLang File #. The default path is C:\POWRBBS\SOURCE\ #.POW, where # is replaced by the number you place here. If you put 1, then the PowerLang file C:\POWRBBS\SOURCE\1.POW will be executed.

M: Runs the menu number specified here. If you enter 2, then 2.MNU is executed.

5. TIME

This tells PowerBBS how to charge time for the command. Use the following chart:

1 1 minute is charged for every minute used. (You can increment this number accordingly)

0 The clock is stopped, and no time is being charged

-1 The user is given 1 minute for each minute being used. (You can increment this number accordingly)

Entries 6,7, & 8 are for interactive menus. Interactive menus let ANSI users use their arrow keys at the menus. If you do not have interactive menus, skip these entries.

6. INTR

This is for Interactive menus (ANSI MODE ONLY). When a user logs onto an interactive menu the first menu item (and DEFAULT) is #1. If the user presses the

down arrow, Intr #2 is selected.

7. X
8. Y

These are the coordinates for the description on interactive menus.

9. DESCRIPTION

Enter a small description on the command.

TYPE F3 TO EDIT ADDITIONAL INFORMATION

1.NAME

Enter a short description of the menu type created.

2.MENU FILE

This is the screen (ASCII/ANSI/RIP) which will be displayed to the user. Enter Path\File Name to the Menu Screen.

3.HELP FILE

This is the screen which will be displayed when the user presses either H or ? at the menu command.

4.MOVE FORUM

If you want to change to a particular forum when this menu is selected, press Yes.

5.FORUM TO

If 4 is selected, select the forum to change to.

6.NORM BACK

Normal Background, is the normal background color of the description:

Black	40
Red	41
Green	42
Yellow	43
Blue	44
Magenta	45
Cyan	46
White	47

7.NORM COLOR

Normal Foreground color of the description

Black	30
Red	31
Green	32
Yellow	33
Magenta	35
Cyan	36
White	37

8.INTR BACK

Interactive Background color

9.INTR COLOR

Interactive Foreground color

10. ALLOW INTERACTION?
If you want to have interactive menus (ANSI ONLY) select this option.

9.6.1 Built in Command Chart

1) Area Change:
Used to jump to a different forum. Forums usually deal with a certain topic, and
include their own message base.

2) Read Bulletins:
This option will display a listing of bulletins, which can be displayed. The user has the option to read one or more bulletins by selecting the bulletin number, re-listing the bulletins that are available for display, or returning you to the MAIN menu.

3) Clock Display:
This option will display the time you called up, the current time and date, the
amount of time used on this call, and the amount of time left for your call.

4) Goodbye, Logoff:
Terminates the current connection and disconnects. You will be asked if you are sure you want to logoff. If Yes, you will be disconnected after the logoff screen is shown. If No is entered, you will be returned to the MAIN menu.

5) Initial Welcome:
This will display the opening screens, which were displayed to you as you logged on today. This lets you look at the screens, without having to logoff and then call again.

6) Live Programs, Doors:
This feature permits you to run an outside program, and leave the main BBS temporarily. Live programs can be almost anything from a database to a game. You will be displayed a list of programs, and you must type in the program # to run, or return to come back to the MAIN menu.

7) News Display:
This menu choice displays the contents of the current Forum you are in.

8) Page the SysOp:
This selection allows you to page the system operator. If the sysop's Pager is turned on, the computer will try and call the SysOp by beeping. If the SysOp is there, he will go into CHAT mode. You must first give a reason for calling him.

9) Questionnaire:
You are presented with a menu screen containing numbered listings of questionnaires available to be answered. Select the number you wish to answer. You will then be followed by questions, which are defined by the SysOp, to answer.

10) Update Settings:
This gives you the ability to make changes to certain information in your

User database. You may change the entries in some area, while others are not accessible. This gives you the ability to set up color, hotkeys, etc.

11) View Statistics:
This displays information from your User Database record. It will display your file information, settings, etc.

12) Who is on, Node Chat:
If you are running multinodes, users will be able to see who else is online, and chat with other nodes.

13) Expert Toggle:
You have the option of two levels of menus: Expert And Novice. In Novice mode full menu support is shown, while in Expert mode the screens are by-passed.

14) Comment to SysOp:
This permits the user to enter a message to the SysOp. The message is saved in the current forum as a private message (if forum does not permit private messages, then it is copied into forum #0).

15) Enter a Message:
This message entry command has a number of features. First you must select whom to address the message to. If return is selected, it will be addressed to ALL. You are then asked for the Topic of the message. The final prompt prior to message entry is whether to make the message private. Private mail is seen only by the sender, recipient, Sysops, and Sub-SysOp. If your computer permits Ascii codes, a full screen editor will be used, with numerous features.

16) Lastread Update:
Allows you to reset your last message read pointers (for the forums). Used for Downloading of Mail, and for reading messages.

17) Read Messages:
Reading messages involves selection of the messages to be read from a sub- menu. The choices within the READ command are fully explained in a help file within that area.

18) Scan Messages:
Scanning messages is different from reading messages. Only the header information is shown. It is used in cases where a quick view of the messages is needed.

19) Update Forum Info:
This permits the user to change the forums he wants to scan. The scanning is used for when Reading Messages, and when downloading mail.

20) View Forum Info:
This prompt displays all the forums which you have access to and all the forums which are set for scanning.

21) Your Mail:
This will search messages for mail written to YOU.

22) Download files:
This option allows transferring files from the BBS system to your

computer. If your ratio does not comply with the system rules, you will be notified and returned to the FILE menu. You can fix this by Uploading files, and/or by leaving messages. To see what you have to do, use the Y function to view your statistics. If you have a set protocol, you will be prompted for the name(s) of the files to download. If you do not have a set protocol, you will have to enter a protocol. You can transfer up to 50 Files using Batch mode. When the BBS indicates 'ready to send' you should begin your own local transfer procedures, using the same protocol as you selected.

23) List Files:
This option views the available files for download from the BBS. It presents a sub-prompt asking for which file area to be displayed.

24) New Files:
Displays a sub-prompt asking for the date to use as a basis for the search. The default date is the last time you used this option. The files which are that date are newer will be displayed.

25) Protocol Option:
This gives you the ability to change the default protocol, which is used for transfers.

26) Read a Text File:
A sub-prompt asks for the name of any ASCII file listed in the file database. The selected text file is displayed with appropriate screen pauses. Only files with .TXT are permitted.

27) Search File List:
This option gives you the ability to search the files listing for any series of characters. If the series is found in the filename, or description, the file will be shown.

28) Test a File:
This will test an ARCHIVE to see if it is a valid ARCHIVE.

29) Upload a File:
This option allows transferring of files from your computer to the BBS. If no default protocol is set, you must choice the file. You will then be prompted for the files, and enter a description. If enter is hit alone, you can upload the files and be asked for the descriptions later.

30) View inside a ZIP:
This selection is designed to allow viewing compressed files, such as .ARC, .ZIP, .PAK, .ZOO, etc.

31) Write MARKED files:
This permits you to update the information in the MARKED files listing. This listing of files, is set to be downloaded, when the D FILE MENU option is used.

32) Your Stats [Ratio]:
This will display your current download/upload information, your ratio, the lowest ratio available for download, and if you have access to download. If you have a bad ratio in either Downloading/Uploading or Messages Per Call, you will be notified.

33) Sysops System:
This function will load the SysOps Menu, PowrSYS.exe.

35) Ascii Upload:
Allows for Ascii Uploads

37) Command to permit User to Download Mail
38) Command to permit User to Upload Mail

See PowerMail Section

9.7 Edit Language File

Your BBS may have separate language prompts for different languages. If you did not set up a multi-language system in the General Setup of Config, edit language #1. Language #1 is the default language file. At the prompt to enter the language #, type 1.

To be able to set up more than one language, select the "Do you want Multi-Lang Support" option in the options #1 screen (Entry #15). You can then edit your Language Data File (Entry #10 in Data Files #1 Screen), and add language.

When you are asked for the language number, this file is stored as #.LAN in your \POWRBBS\SOURCE directory.

In all the text editting, you may use MACROS, and also the following color macros:

@1@ - Blue @2@ - Green @3@ - Cyan @4@ - Red @5@ - Magenta
@6@ - Gray @7@ - Yellow @8@ - Brown @9@ - White

Example line using macros:

@9@|NAME|@7@, Press [RETURN] NOW!

Remember that |MACROS| must be in CAPS.

10.0 SCREENS DISPLAY FILES

PowerBBS will use one of three file types to display screens to your callers. The display screens are the menus and information screens that callers see while on your BBS. The type of screen displayed depends on the callers system. The material in all three types of displays should be the same. Only the method of presentation will be different.

The three types of display screens are ASCII, ANSI, and RIP. They are all text files and may therefore be edited with the appropriate editor.

ASCII stands for American Standard Code for Information Interchange. It only contains 128 characters, like those available on a conventional typewriter. However, in the PC world, there are also a number of page codes of extended ASCII characters. For this reason ASCII files are often called TEXT files. ASCII files display no color. The ASCII display files you defined in CONFIG are the default display files. If neither ANSI nor RIP are detected from a caller then ASCII files will be displayed. ASCII display screens may be created or edited on any TEXT editor. PowerBBS will automatically

add color to any ASCII file whose name ends in c . More about that later.

ANSI stands for American National Standards Institute. It is an extended character set which contains color and some graphics. While it takes an ANSI editor to create or edit ANSI display screens, most will also create and edit ASCII as well.

RIP stands for Remote Imaging Protocol. By using RIP graphics you can show visually stunning graphics and offer full point and click access to your BBS. To create a RIP display screen you will need a RIP paint program.

10.1 Thedraw (Edit ANSI/ASCII Files)

TheDraw is a popular program that may be used to edit ANSI/ASCII files. It is shareware and available for download on the support BBS.

When saving with TheDraw, the best method is to use ALT-B, S to block save. Also, use 200 chars per line for best performance.

Note that when using |MACROS|, Thedraw may sometimes split a |MACRO| between two lines. If it does this, try saving using a different size for characters per line.

10.2 RIPAINT/DeadPaint (Edit RIP Files)

RIPAINT is a commerical package that is available to edit RIP GRAPHICAL Files. Deadpaint is available for download on the support BBS, but is limited in its use.

10.3 Saving screen files

PowerBBS uses the last letter of a screen files name to determine whether it is reading as ASCII, ANSI, or RIP file. A c on the end of a file name stands for ANSI while an r stands for RIP.

For example:	C:\POWRBBS\SCREEN\MENU	ASCII File
	C:\POWRBBS\SCREEN\MENUC	ANSI File
	C:\POWRBBS\SCREEN\MENUR	RIP File

You will notice that none of these files have extensions. Display files NEVER have extensions.

11.0 MACROS

Any of the Macros listed below may be included in any display file. PowerBBS has a rich macro language. Reading over this list should give you some ideas for ways to customize your display screens. Don t forget to enter macros in their proper form. |MACRO| must be in |CAPS|

Always test out your screen display files!

Macro	Converts to
|.......CITY.......|	City user is calling from
|ADDRESS|	User address
|ANONYNAME|	User anonymous name
|BAUD|	Baud rate user is using
|BBSCALLS|	Total number of calls made to BBS (by ALL users)

|BIRTHD| User birthday
|CLOCK| Current time
|COM| Com Port # only (0,1,2,3, or 4)
|CREDITS| Number of credits user has left
|DATE| Current date
|DIRS| Number of files listing in forum
|DLBYTE| Total number of download bytes by user
|DLFILE| Total number of downloads by user (# files)
|DLKA| Maximum number of download bytes (in k) available to user.
|EX| User expert mode
|EXPDAT| Expiration date for user
|EXPLEV| Expiration security level for user
|FILES| @ + Full Path/Filename to file transfer list
|FIRST| User first name
|FIRSTD| First day User called
|FORUM| Current forum name
|FORUMS| Number of forums on BBS
|GOOD_MR| Tells the user about his/her message ratio
|GOOD_FR| Tells the user about his/her file ratio
|GOOD_BR| Tells the user about his/her byte ratio
|HOMEPHONENUM| User home phone number
|LASTDT| User last date called
|LEVEL| User access or security level
|LOG| Full Path/Filename to file that if exists after dropping for a DOS function; will be displayed.
|LTI| Time user last called
|MDBL| Monthly download byte limit (in k)
|MINLEFT| Minutes left for user use
|MINON| Total minutes on by user
|MBR| Minimum download/upload bytes ratio
|MFR| Minimum download/upload files ratio
|MMR| Minimum message/calls ratio
|MONITOR| Monitor type of user
|MSGS| User number of msgs left
|NAME| The current callers name. (Use this in a TO: message to send a message to EVERYONE!)
|NAME25| User name as 25 characters
|NAMEOFCOMPUTE| User computer type
|NIDATE| Day PowerBBS was last loaded
|NICALLS| Number of calls since last load of PowerBBS
|NIMSGS| Number of msgs left since last load of PowerBBS
|NIDL| Number of downloads since last load of PowerBBS
|NIUL| Number of uploads since last load of PowerBBS
|NODE#| Current node number
|PAGELEN| User page length
|PBBSDAT| Full Path/Filename to PowrBBS.Dat File
|PROTO| User protocol
|SAFE| Time available in the safe
|SS| In = Pager on, Out = Page off [Sysop in/out]
|STATE| User state
|SYSOP| Sysops full name
|TON| Time user logged on
|ULBYTE| Total number of upload bytes by user
|UPDIR| Path to the transfer directory (Default: \POWRBBS\TRANS)
|ULFILE| Total number of uploads by user (# files)

|USRCALLS| Total number of calls made by user
|VER| Current version number of PowerBBS
|WHO-ON| Displays current users online
|YBR| Users download/upload bytes ratio
|YMR| Users message/calls ratio
|YFR| Users download/upload files ratio
|ZIP| User zip code

12.0 Setting up PowerMail

PowerMail is what we call PowerBBS's ability to create .QWK packages for your users to download. Your users may then use a QWK-mail reader and read mail offline; create replies and upload the replies in a .REP file to the system.

PowerBBS should have created a \MAIL1 directory automatically. This is PowerBBS's work directory for mail exchange.

The file UNZIP.BAT unzips .REP files, while ZIP.BAT creates a .QWK file. Be sure that in your UNZIP & ZIPMAIL files that the correct directory is used.

Sample UNZIP.BAT:

```
del\mail1\powerbbs.msg
cd\mail1
cd\%1
pkunzip -o %2
del %2
```

Sample ZIPMAIL.BAT:

```
cd\mail1
pkzip %1%2 *.ndx *.dat *.msg
del %1*.ndx
del %1*.dat
cd\powrbbs
```

To be sure you are set up for QWK Mail. Be sure Node Information, Entry #11 shows the correct path to the MAIL directory. Options #1, Entry #16 (Are you running PowerMail) should be checked. And last but not least, be sure you have the functions available on your menu. The built in command #37 is for download of .QWK packages. Built in command #38 is for upload of .REP packages. These functions are normally located at your Messages Menu. (D to download mail and T to upload mail).

13.0 Protocol Setup for File Transfers

With PowerBBS you can easily set up the protocols you like, add external protocols, or use the ones provided for by PowerBBS. Before continuing be firmiliar with the section "Setup of Protocols". That is where you can actually edit the protocols you want in Config.

PowerBBS installs the following protocols for you automatically: Xmodem, Xmodem-1k, Xmodem-1kg, Ymodem-Batch, Zmodem. Without having to touch this area of the BBS, your file transfers are already set and ready to run. PowerBBS defaults to the PBBSPROT.EXE program as
described below.

13.1 General Description of Protocols:

Protocol	Description	Advantages	Disadvantages
Xmodem	The original IBM protocol. Written by Ward Christensen in the late 1970s.	Universal, most computers (if not all) support it.	Relatively slow, especially with error-correcting modems.
Xmodem-1K	Increase byte packet size from Xmodem to 1K.	Faster than Xmodem.	Only can transfer one file at a time as with Xmodem.
Xmodem-1KG	Same as Xmodem-1K but for use with error-correcting modems.	Faster than Xmodem-1K.	Only with error-correcting modems; Not as reliable.
Ymodem/ YmodemG	An Improved Xmodem, in that it permits more than one file to be transferred at a time. (or another words a BATCH transfer protocol)	Permits BATCH transfers.	Not as widely used.
Zmodem	The new standard protocol, more powerful than Xmodem or Ymodem.	Reliable and Fast. Batch Transfers.	Only sends or receives at once. cannot do both like HS/LINK.
HS/LINK	Provides the ability to download and upload at the same time (and even chat at the same time!).	Provides double the performance if you need to DL	Very proprietary. Not available on many platforms.

and UL at once.

13.2 PBBSPROT (PowerBBS Protocol Transfer Program)

Using the default setup, PBBSPROT is run whenever a file needs to be transfered. It is usually the best setup, because it is a true windows application. Although you can set up DOS protocols (such as DSZ and HSLINK) keep in mind that DOS protocols will slow down your system.

PBBSPROT Usage:

PBBSPROT |PBBSDAT| <Command>

Sample PROTOCOL.BBS file setup for ALL protocols supported by PBBSPROT:
(Note that Ymodem-G isn't provided in the default setup of PowerBBS)

```
X 1  1  1 0 Xmodem/XmodemCRC
c:\powrbbs\PBBSprot.exe |PBBSDAT| sx
c:\powrbbs\PBBSprot.exe |PBBSDAT| rx
;
K 1  1  1 0 Xmodem-1K
c:\powrbbs\PBBSprot.exe |PBBSDAT| sxk
c:\powrbbs\PBBSprot.exe |PBBSDAT| rxk
;
E 1  1  1 0 Xmodem-1KG - Error Correcting Modems Only
c:\powrbbs\PBBSprot.exe |PBBSDAT| sxg
c:\powrbbs\PBBSprot.exe |PBBSDAT| rxg
;
Y 40 40 1 0 Ymodem Batch
C:\powrbbs\PBBSprot.exe |PBBSDAT| sy
C:\powrbbs\PBBSprot.exe |PBBSDAT| ry
;
G 40 40 1 0 Ymodem-G Batch
C:\powrbbs\PBBSprot.exe |PBBSDAT| syg
C:\powrbbs\PBBSprot.exe |PBBSDAT| ryg
;
Z 40 40 1 0 Zmodem
c:\powrbbs\pbbsprot.exe |PBBSDAT| sz
c:\powrbbs\pbbsprot.exe |PBBSDAT| rz
;
```

13.3 Setting Up DSZ

DSZ is a DOS transfer protocol program. It is usually not a good idea to setup a DOS door, because it slows download Windows in general. However, it is a good example of setting up a DOS program.

To be able to use DSZ and most other DOS transfer programs you must set the DSZLOG DOS environment name either in your autoexec.bat, or in the .BAT file you create for running the protocol (yes you can call another .BAT file to run a protocol).

The DSZLOG variable tells DSZ to record the results of the file transfers in this file. PowerBBS will then take that information for CPS info, etc. If this file is not found, PowerBBS will try to estimate (given the time factor) how the transfer went. In order for this to work, you MUST set the DSZLOG variable the SAME as you entered in Config's Node Screen, Entry #4. Example DSZLOG entry:

SET DSZLOG=C:\DSZ.LOG

DSZ is case sensitive. Be sure you read the DSZ documentation before using it.

Example Zmodem/Ymodem entry in PROTOCOL.BBS file:

```
Z 40 40 1 0 Zmodem
c:\powrbbs\dsz port |COM| handshake both pB4096 z pb1 sz |FILES|
c:\powrbbs\dsz port |COM| pB4096 rz
;
Y 40 40 1 0 Ymodem Batch
C:\powrbbs\dsz port |COM| sb -k |FILES|
C:\powrbbs\dsz port |COM| pB4096 rb -k
;
```

13.4 Setting up HS/LINK

HS/LINK will permit your users to download AND upload AT THE SAME TIME! However, because it is a DOS protocol remember that it will slow up Windows.

As with DSZ you must set up the DSZLOG (see above).

Example HS/LINK entry in PROTOCOL.BBS file:

```
H 40 40 1 0 HS/LINK (Use D)
C:\POWRBBS\HSLINK -P|COM| -B|BAUD| -U|UPDIR| |FILES|

;
```

For your users to operate HS/LINK, they should select the Download command from PowerBBS. There they can select the files to download. After starting the transfer (and their download), they can upload a file to PowerBBS. PowerBBS will determine after the transfer is done, whether or not files were uploaded. In this manner a user may gain 230 cps downloading and 230 cps uploading at 2400 (and you can chat with them at the same time)!

14.0 Modem Info

14.1 Additional Modem Configuration Help

In order for PowerBBS to be able to communicate correctly with the modem and your remote users, you need to set up the modem configuration of config properly. While reading about Modem Info, have your modem manual handy. Some modems may differ, and it is always a good idea to read the information about your particular brand.

14.2 Answering the Phone

There are two methods that PowerBBS will detect a caller. By checking "Answer by Ring" in config, PowerBBS will use the Ring Method. By not checking "Answer by Ring" PowerBBS will let your modem automatically answer the phone (Auto-Answer).

14.3 Answer by Auto-Answer

In Auto-Answer mode, PowerBBS does nothing to answer the phone. It simply waits for a carrier detection. Your modem takes care of answering the phone. This requires a special setting in your modem initialization. S0=x; where x is the number of times to let the phone ring before answering. For example, by adding S0=1 to your modem initialization, your modem will answer the phone after one ring. (note that S0=0 turns Auto-Answer off)

14.4 Answer by Ring Method

PowerBBS will continuously look for the "RING" string to be sent by your modem. As soon as your modem sends "RING", PowerBBS then sends "ATA" to the modem to answer the phone. All this is built into PowerBBS, there is no special configuration. To be sure that your modem is not set to answer by auto-answer, you should add S0=0 into you modem initialization.

14.5 Carrier Detect

PowerBBS uses the Carrier Detect (CD) signal to tell when a user is online. You must set your modem to track Carrier Detection. Most modems use the following configuration for Carrier Detect. For PowerBBS we recommend using AT&C1 in your modem initialization. If you try running PowerBBS and it keeps trying to drop carrier on initialization, this is because your modem is not sending the true carrier detection, you must set your modem to AT&C1.

AT&C0 Carrier detect is always on, even if no caller is present.

AT&C1 Carrier detect is on only when the modem is connected to another caller.

AT&C2 Carrier detect signal reflects the true state of the carrier.

14.6 Data Terminal Ready

The Data Terminal Ready (DTR) is a signal from the PC to the modem, which tells the modem whether or not the PC is ready to communicate. Most default modem settings will drop carrier if the DTR is not on. For this reason, many programs use the DTR to hang up the caller. PowerBBS also can use the DTR to hang up the caller, OR it can manually tell the modem to hang up. Unless you have problems it is recommended that you do not use the DTR to hang up the caller and set &D0 in your modem initialization (and do not check Use DTR to drop carrier in CONFIG). The reason for this is sometimes Windows may drop DTR, and your user will drop carrier.

AT&D0 Modem does not utilize the DTR signal.

AT&D1 Modem does not answer if DTR is low. If DTR changes from high to low while online, modem enters command state. Must use ATO to resume host connection.

AT&D2 Modem does not answer if DTR is low. If DTR changes from high to low while online, the modem will drop the carrier and return to command state.

AT&D3 Same as AT&D2, but before returning to command state the modem will perform a reset.

14.7 Determining Baud Rate Connection / Result Codes

After the phone is answered and PowerBBS detects a carrier, it then must determine what baud rate to send at and set windows accordingly. PowerBBS looks for the "CONNECT xxxxx" result code, where xxxxx is the baud rate connected at. To be sure that your modem sends this information you must set your modem to return the result codes. This is usually done by adding X4 into your modem initialization.

ATX0 Modem uses "OK", "CONNECT", "RING", "NO CARRIER", and "ERROR" signals.

ATX1 X0, but includes the connection speed to the CONNECT message (ie: CONNECT 9600)

ATX2 X1, Adds "No Dial Tone"

ATX3 X1, Adds busy signal detector and "BUSY"

ATX4 This is the full result code option, and option you should use with PowerBBS. Includes all the Result Codes with connection speeds included in the "CONNECT" as described in X1.

Another modem option, QUIET MODE, can turn off result codes. Make sure you have result codes turned on, by using Q0.

ATQ0 Result Codes ON

ATQ1 Result Codes OFF

14.8 Setting Speaker Loudness

Because you do not want to hear your modem go wild at all hours of the night, you'll usually want to include M0 to keep your speaker off.

ATM0 Speaker is always off.

ATM1 Speaker is only on while dialing.

ATM2 Speaker is always on.

ATM3 Speaker is off while dialing, but on until carrier detected.

14.9 Hang Up String

The default string to hang up is "ATH". This is usually the standard. "ATH" should be put in the Hang Up string of command. You should also include H0 at the end of your modem initializations.

14.10 Reset the Modem

The default modem initialization string #1 is "ATZ". This command resets the modem and recalls the user profile setup of the modem (most of the time this is the default setting of the modem).

14.11 Flow Control

Flow control is necessary because the modem usually cannot keep up with your computer. Another words without flow control, characters will be lost. PowerBBS uses RTS/CTS flow control, this is the flow control you want to set your modem to use (do not use XON/XOFF). For most modems you can do this as &K3.

AT&K0	Flow control is disabled
AT&K3	RTS/CTS flow control enabled
AT&K4	XON/XOFF flow control enabled

14.12 High Speed Modems

When using a high speed modem, usually the best configuration is to lock in the baud rate at either 19200 or 38400.

Locking in the baud rate involves setting your modem to allow a fixed DTE rate all all times. The problem is that no standard has evolved for doing this on high speed modems. You have to basically look in your modem manual for doing this. Most USRobotics modems have the &Bn DTE RATE SELECT command. By adding &B1 into your modem initialization string, the DTE is fixed. The modem will always communicate with the DTE at the rate at which you have set PowerBBS. For the greatest throughput, set the DTE to open at 38400. The USRobotics manual also recommends that you have hardware flow control enabled (&H1). Again PowerBBS uses hardware flow control
for its operation.

Hayes calls their DTE locking "Automatic Speed Buffering". ASB enables Hayes modems to "send and receive data to and from the attached modem at one particular transmission speed, regardless of the speed of the modem-to-modem connection." To configure a Hayes product to use Automatic Speed Buferring, you need to adjust the S36 option (refer to your Hayes modem manual for various options on doing so). ASB buffers store data temporarily, using local flow-control. The modem should also be set with the &K command.

14.13 Problems with Carrier Detection

PowerBBS has a built in feature that will let you know whats going on when people try to call your BBS. Add a \L to the properties command line of PowerBBS. Ie: C:\POWRBBS\POWRBBS.EXE C:\POWRBBS\POWRBBS.DAT \L. After a user tries calling, look at your Activity Log.

15.0 Example Modem Setups

The following modem setups have been tested by various PowerBBS users.

Most 2400 modems:

Baud Rate:	2400
Init #1:	ATZ
Init #2:	ATM0X4&D0&C1S0=0H0
Local Init:	ATH1

Drop Carrier: ATH
Answer by Ring: Checked
Lock Baud: Not Checked

SupraFax Modem

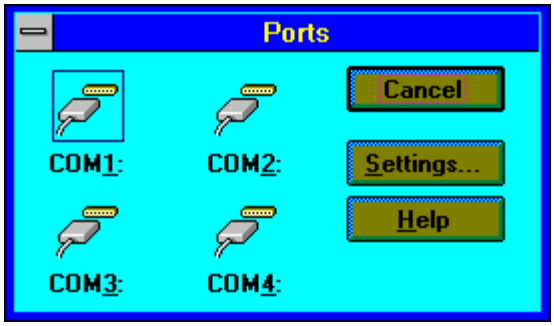
Baud Rate: 38400
Init #1: ATZ
Init #2: AT&F2&D0M0E0V1S95=35
Local Init: ATH1
Drop Carrier: ATH
Answer by Ring: Checked
Lock Baud: Checked

USRobotics Dual Standard

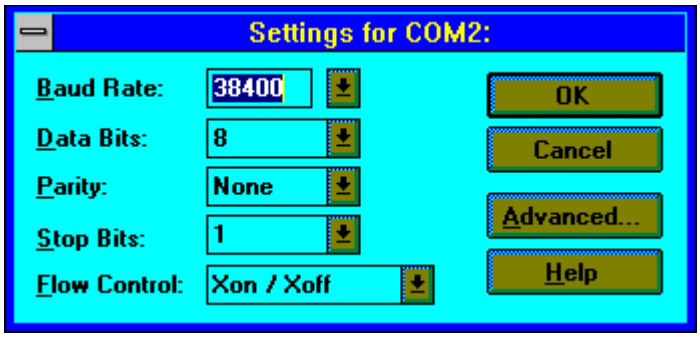
Baud Rate: 38400
Init #1: ATZ
Init #2: AT&C1&D0M0Q0X4&A1S32=2S0=0B0&B1&H1H0
Local Init: ATH1
Drop Carrier: ATH
Answer by Ring: Checked
Lock Baud: Checked

16.0 Setting up Control Panel

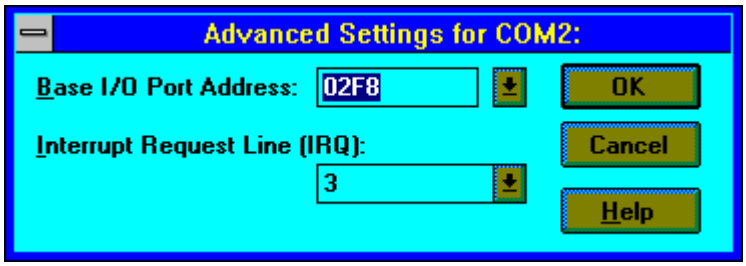
For correct execution of PowerBBS, be sure you have correctly configured Windows. Enter the Control Panel / Ports Section. Select the com port number you are using.



The settings are not really important (PowerBBS doesn't use them). Check the Advanced Button, this is the important part.



Now make sure you have the correct Port Address / IRQ selected. If you are using COM1 or COM2, default is ok. Otherwise, select the correct setting because only COM1 and COM2 are standard.



17.0 Installing and Running Doors (Live Programs)

17.1 Types of Doors

There are two types of doors that may be run on PowerBBS. The first variety are Windows applications specifically written for PowerBBS and the second more common variety are traditional DOS based doors written for other BBS types. Doors may be run as a "Live Program" from information obtained from the LIVE.DAT or from a POW file specified from a Menu command.

17.2 The LIVE.DAT File

Both types are supported by PowerBBS and can be run by modifying the ASCII file LIVE.DAT. The actual Live batch file is created when the door is run and derives it's information from the LIVE.DAT file. The command line syntax to run a DOS door is as follows:

<Path/Filename of Door BAT>,<Security Level>,<Optional Password>
Example: C:\POWRBBS\DOORS\GOLF\GOLF.BAT,7,

The following command line syntax in the LIVE.DAT will run a PowerBBS door:

<Path/Filename of Door EXE> <Path/Filename to PowrBBS.DAT>,<Security Level>,
<Optional Password>

Example: C:\POWRBBS\BJACK.EXE C:\POWRBBS\POWRBBS.DAT,7,

PowerBBS assumes that all doors with EXE extensions are Windows based programs and are treated accordingly while any file ending with a BAT will be run in a DOS

Window.

17.3 Running a Door From a POW File

Running a door from a Menu command can be accomplished by creating a POW file that handles the BAT or EXE file. This method is not recommended for running multi-node DOS doors unless you are able to specify a different drop file area for each node via PowerLang. PowerBBS doors can be run from menu commands in a multi-node environment by using the |PBBSDAT| macro in place of the File/Pathname to the PowerBBS.dat file. You will have to configure your menu to run the specified POW file by using the "G" command and POW file number. The following is an example of running a Windows PowerBBS door from a POW file on a single node BBS:

```
ClearScreen
Display "@2@Loading Live Program . .
DOS_Windows "C:\POWRBBS\BJACK.EXE C:\POWRBBS\POWRBBS.DAT"
Activity "Entered PowerBBS BlackJack Door at |CLOCK|."
Return_To_BBS
```

This example POW file will run a PowerBBS door from a Multi-node setup:

```
ClearScreen
Display "@2@Loading Live Program . .
DOS_Windows "C:\POWRBBS\BJACK.EXE |PBBSDAT|"
Activity "Entered PowerBBS BlackJack Door at |CLOCK|."
Return_To_BBS
```

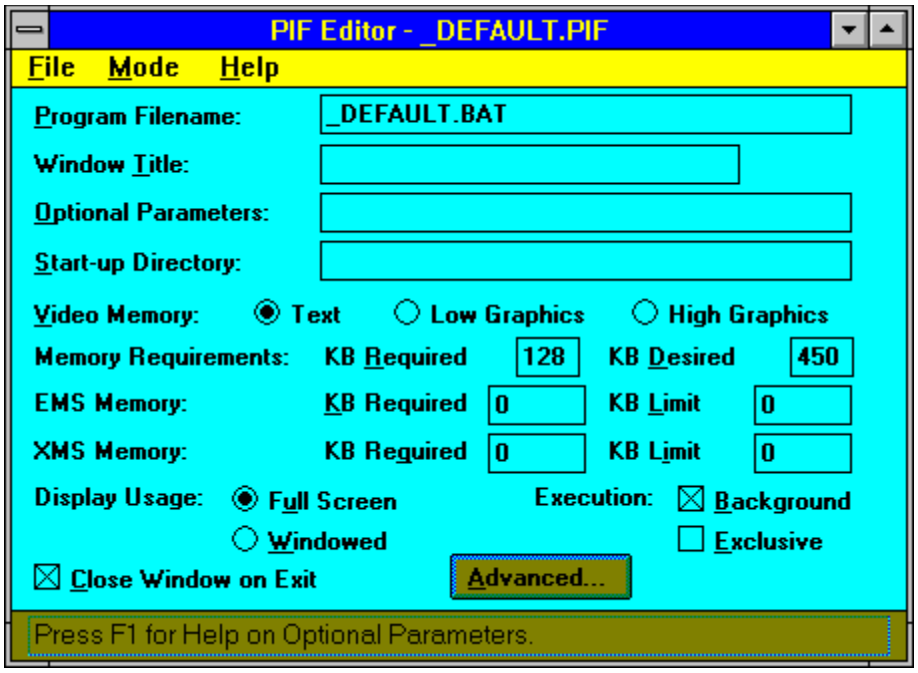
This example will run a DOS door from a single node BBS:

```
ClearScreen
Display "@2@Loading Live Program . .
DOS_Windows "C:\POWRBBS\DOORS\GOLF\GOLF.BAT"
Activity "Entered DOS Golf Door at |CLOCK|."
Return_To_BBS
```

17.4 Running Doors in the Background

To be able to allow programs (Doors etc) to run in the background. Edit the _default.pif file located in your \windows directory. Be sure the option: BACKGROUND is checked and Exclusive is NOT checked as shown here:

IT IS VERY IMPORTANT THAT YOU EDIT THIS FILE CORRECTLY!! SEE THE _DEFAULT.PIF FILE IN YOUR \ POWRBBS DIRECTORY FOR AN EXAMPLE! MAKE SURE YOU GIVE ENOUGH MEMORY TO YOUR APPLICATIONS.



17.5 SETBAUD.EXE

In your \POWRBBS directory, you will find the SETBAUD.EXE program. This is a DOS program, which adjusts the baud rate upon dropping to DOS. This program is run automatically by PowerBBS upon every drop to DOS. It has to be run, due to a problem with Windows/DOS not setting the baud rate correctly. Without this program, your remote user may get garbage characters on their screen. Here is the usage screen:

SETBAUD by Russell E. Frey; Contact us for modifications
SETBAUD Com# Baud
Com# supported 1,2,3,4
Baud rate supported up to 115,200

Default Port Base Codes: $3F8; $2F8; $3E8; $2E8 (1,2,3,4)

If you need a different Port Base call PowerSupport BBS

18.0 CONVDOOR.EXE

Included with your PowerBBS software is a conversion utility called CONVDOOR.EXE which is used to convert the PowerBBS USERINFO.BBS and USERS file information to a 32 line Door.sys or Dorinfox.def drop file. A drop file is required as it contains information such as name, time left online and other data necessary to run the door. The command line syntax to convert to a Door.sys or Dorinfox.def is the following:

<CONVDOOR.EXE> <Path/Filename of USERINFO.BBS> <Path/filname of USERS> <Path/Filename of Door.sys or Dorinfox.def>

Example of creating a Door.sys drop file (note the below statement should all be on one line):

CONVDOOR C:\POWRBBS\USERINFO.BBS C:\POWRBBS\DATA\USERS C:\POWRBBS\
DOOR.SYS

Example of creating a Dorinfo1.def drop file:

CONVDOOR C:\POWRBBS\USERINFO.BBS C:\POWRBBS\DATA\USERS C:\POWRBBS\
DORINFO1.DEF 2

Once the drop file has been created it may be converted via any third party door conversion utility to any BBS type thus allowing most doors to run on PowerBBS. The path of the drop file may be any specified directory and for multi-node operation it is necessary to have several areas where each node's drop file can reside. This will be explained in the Section "Multi-Node DOS Door Batch File". Note the "2" included after the Dorinfox.def file's Path/Filename.

18.1 Single Node DOS Door Batch File

Your door will often require a configuration file that specifies the type and location of the drop file as well as the Sysop and BBS name. Make sure they correspond to the Path/Filename that is specified in your door batch file. The following is an example of running a door on a single
node that requires a Door.sys drop file:

```
@ECHO
C:
CD\POWRBBS
CONVDOOR C:\POWRBBS\USERINFO.BBS C:\POWRBBS\DATA\USERS C:\POWRBBS\
DOOR.SYS
CD\POWRBBS\DOORS\GOLF
GOLF GOLF.CFG
CD\POWRBBS
DEL DOOR.SYS
ECHO All Done!
```

Note that the created drop file is deleted after the door is exited.

18.2 Multi-Node DOS Door Batch File

In order to run doors on a multi-node BBS you will have to configure the following files to create a different PowerBBS.Dat file for each node. The following files will have to be unique to each node: LIVE.DAT, USERINFO.BBS, path to LIVE.BAT and seperate directories for each
node's drop file. Included are example LIVE.DAT and batch files that will be run on node 2 using a multi-node setup with Dorinfox.def as the drop file. Please note that the doors will require a different configuration file for each node as well as a seperate BAT's to be taken from each LIVE.DAT file.

Example LIVE2.DAT:

```
C:\POWRBBS\BKACK.EXE |PBBSDAT|,7,
C:\POWRBBS\DOORS\POKER\POKER2.BAT,7,
```

Example Batch File:

```
@ECHO
C:
CD\POWRBBS
CONVDOOR C:\POWRBBS\USERINF2.BBS C:\POWRBBS\DATA\USERS C:\POWRBBS\
NODE2\DORINFO2.DEF 2
CD\POWRBBS\DOORS\POKER
POKER POKER2.CFG
CD\POWRBBS\NODE2
DEL DORINFO2.DEF
ECHO All Done!
```

19.0 CDROM Enhanced Support For PowerBBS

PowerBBS now includes the ability to look at a file index datafile, instead of actually looking at the drive. The advantage to this is if you have a slow drive, such as a CD-ROM, PowerBBS will not have to look at the CD-ROM. You can even put the index datafile onto a random access memory disk for instantaneous access.

PowerBBS can also copy files off of your CD-ROM and put it into your transfer directory (such as C:\POWRBBS\TRANS) and let the file transfer take place from there.

CDROM.EXE is a DOS program that will create the index file for you. First create a TEXT file with directories.

Were going to use "The SoundWare Collection" CD-ROM disk as an example: Use Windows Notepad, or your favorite TEXT editor and create a file called "SND_COL", NOTE: You can call this WHATEVER you want, i.e. Pier1, Pier2,Carrs9. It will NOT make a difference! For this example though, I'm using "SND_COL", and I'm only going to use a few directories. Use | and then the CD-ROM drive letter. Next, type in all directories you want your users to have access. (These are just a FEW of the directories!)

```
|E:\CMF_0_9
|E:\CMF_A_E
|E:\CMF_F_I
|E:\CMF_k_O
|E:\CMF_P_T
|E:\CMF_U_Z
```

Save the file. Now type: "CDROM SND_COL C:\Powrbbs\SNDFILES" (NO QUOTES.) SNDFILES is the name I selected for CDROM.EXE to create. This too, can be called whatever you desire. You should see you CD-ROM drive running during the process. It will only take a few minutes. Once completed, you should now have a file called "SNDFILES".

You may now edit your C:\Powrbbs\Files\Dldir.dat file. Add: @C:\Powrbbs\SNDFILES (BE SURE TO PUT "@" BEFORE THE FILE NAME)

This is the file that PowerBBS will "READ" for IT'S use. You must add a file listing to whichever forum you will be "LISTING" the CD-ROM files. Most "BBS ready" CD's will have text files that will show file names, size, date,and description. Look on the CD for files with the *.BBS or *.TXT extensions.

20.0 Setting up PowerBBS to test new uploads

Once a user uploads a file to your system, the file is in your hands. You need to provide some method of protecting yourself and your users. PowerBBS provides the capability of testing each and every upload in a repetitive batch procedure. It simple will drop to DOS to run a batch file, you define, on every upload that comes to your system. There are various tools, described below, that will test your uploads for viruses, latest compression, and more.

The first thing you have to do is set up PowerBBS in Config to test every upload to the system. Look in the manual under "Test Files Setup". You will need to check the option in Config to test new files, and you will also have to specify a .BAT file which will actual do the work in testing the uploads.

In creating the batch, keep in mind that PowerBBS uses the following variables when dropping to run the batch file:

%1 is the compressed file to be tested

%2 a temporary file created by PowerBBS, of size 0. Also, if you want PowerBBS to display any information after testing, send it to this file.

%3 A file that doesn't exist on disk. If you create this file, PowerBBS will locate it when reloading, and assume an error happened. This is how PowerBBS identifies an error. To identify this in your batch file, use: COPY %2 %3

%4 The com port number (1,2,3, or 4)

%5 N/A

%6 N/A

%7 The path to your transfer directory (Default is C:\Powrbbs\Trans)

A very simple batch test is the following batch which runs PkUnZip to test the file (this test the ZIP file itself, but doesn't check for virus). Note that the BATCH makes use of DOS' capability for errorlevels. When you are testing errorlevels in a batch file, DOS tests the errorlevel not for equality, but for greater than or equal to.

```
echo off
pkunzip -t %1 >%2

If errorlevel 51 goto Good
If errorlevel 50 goto Error
If errorlevel 11 goto Error
If errorlevel 10 goto Error
If errorlevel 9 goto Error
If errorlevel 8 goto Error
If errorlevel 7 goto Error
If errorlevel 6 goto Error
If errorlevel 5 goto Error
If errorlevel 4 goto Error
If errorlevel 3 goto Error
If errorlevel 2 goto Error
If errorlevel 1 goto Error
if errorlevel 0 goto Good

:ERROR
Echo Error In Zip
Copy %2 %3 >NUL
Goto Exit

:GOOD
Echo Zip is good
cd %7
```

```
del file_id.diz
pkunzip -o %1 file_id.diz
goto :Exit

:Exit
Cd\Powrbbs
```

20.1 FILE_ID.DIZ Support

As can be seen by the above batch file, PowerBBS has built in facilities in dealing with the FILE_ID.DIZ file. The FILE_ID.DIZ file is a straight text file, which is contained in many files that people upload. Because the author usually writes a complete description of their program into this file, PowerBBS can read from this file and use it as the upload description (over-riding the upload description the user gave). PowerBBS will copy up to 10 lines from the FILE_ID.DIZ file (at a maximum of 45 chars/line).

The following three lines:

1) cd %7
2) del file_id.diz
3) pkunzip -o %1 file_id.diz

are all you need in setting up PowerBBS to read the FILE_ID.DIZ files.

20.2 Setting up TranScan (tm)

One advanced upload testing program that you can run with PowerBBS is TranScan. TranScan is a shareware program, which may be downloaded from the support BBS. TranScan works by extracting files of all types (this means ZIPs, LHAs, etc) for Virus Scanning and can even convert the files to a default method. Its abilities also include testing for integrity, viruses, age or date, gif integrity & resolution, and more. Its a powerful program, and easy to implement.

The following batch is an example of how easy it is to run TranScan (You should have already unzipped TranScan into your POWRBBS directory, or just change the directory path to TS on the first line of the batch). Note that the only problem with running TS is that you will need to edit the /P entry. Because of this you have to have a different batch file for each node you are running. For information on the /P entry, please refer to the TranScan documentation.

```
\Powrbbs\TS %1 /P%4,$03F8,4,T /CNONE
rem  errorlevel 0-ok; 1-21 problems

If errorlevel 21 goto Error
If errorlevel 1 goto Error
if errorlevel 0 goto Good
goto Good

:ERROR
Echo Error In Zip
Copy %2 %3
Goto Exit

:GOOD
Echo Zip is good
cd %7
del file_id.diz
```

```
pkunzip -o %1 file_id.diz
goto :Exit

:Exit
Cd\Powrbbs
```

20.3 Setting up ZIPLab v1.1 Generic (tm)

Similar to TranScan ZIPLab performs archive integrity checks of most archive types. The virus scan function is not handled by ZIPLab but by a seperate batch file that uses McAfee's SCAN.EXE which is placed in the PowerBBS directory or path. This allows more flexibility by creating scan log files for later reference and by purging the infected file. Create a directory called C:\TEMPZIP and place INITCOM.EXE in the PowerBBS directory. ZIPlab files are to placed in the C:\ZIPLAB directory and the PTEST.CFG file modified to reflect the settings of your system. A different CFG file and TESTZIP.BAT is required for each node that is run.

The following batch runs a single node setup. Note that the baud rate in this example is locked at 38,400 on COM 2.

```
echo off
c:
cd\powrbbs
if exist %3 del %3
pkunzip -t %1 >ziplog.

If errorlevel 51 goto Good
If errorlevel 50 goto Error
If errorlevel 21 goto Error
If errorlevel 11 goto Error
If errorlevel 10 goto Error
If errorlevel 9 goto Error
If errorlevel 8 goto Error
If errorlevel 7 goto Error
If errorlevel 6 goto Error
If errorlevel 5 goto Error
If errorlevel 4 goto Error
If errorlevel 3 goto Error
If errorlevel 2 goto Error
If errorlevel 1 goto Error
if errorlevel 0 goto Good

:ERROR
Echo Error In Zip
Copy %2 %3 >NUL
Goto Exit

:Scan
pkunzip %1 c:\tempzip
scan c:\tempzip\*.* /nomem >scanlog.

if errorlevel 1 goto Scanerror
if errorlevel 0 goto Scangood

:Scanerror
```

```
Echo WARNING Error in Scan, Virus Found!
Copy %2 %3 >NUL
cd \tempzip
ren *.* *.?
del *.?
Goto Exit

:Scangood
Echo Scan is good
cd\tempzip
ren *.* *.?
del *.?
Goto :diz

:Exit
Cd\Powrbbs
copy ziplog.+scanlog. logfile.
del ziplog.
del scanlog.
Powrtool %5
goto Good

:ERROR
Echo Error In Zip
Copy %2 %3
Goto Exit

:GOOD
Echo Zip is good
goto :SCAN

:DIZ
cd %7
del file_id.diz
pkunzip -o %1 file_id.diz
goto :ziplab

:ZIPLAB
@echo off
c:
CD\POWRBBS
c:\powrbbs\initcom.exe 2 38400
CD\ZIPLAB
ptest %1 c:\ziplab\ptest1.cfg
cd\powrbbs
```

20.4 FILE BRAIN UPLOAD VIRUS ZIP CHECKER

This door requires the use of the Brainex Door Manager system. If you have not installed the door manager, please do so before you attempt to use this door.

File Brain will do the following after an upload:

- Check for Duplicate CDROM files (If you use Rombrain!)

- o Test for CRC errors in the .ZIP file.
- o Test for imbedded .ZIP files and if found, CRC check those too.
- o Test for imbedded .TD0 (Teledisk) files and if found, test with TDCHECK.
- o Virus SCAN imbedded EXE and COM files, using SCAN.EXE from McAffey.
- o Remove all .ZIP comments from the file.
- o Replace .ZIP comments with your own. (Optional)
- o Delete unwanted BBS ads and/or other unwanted ZIP members as you define.
- o Test .GIF files for validity if you accept that file format (Optional)
- o Reject programs older than a date (year) which you specify.
- o Extract FILE_ID.DIZ if present, format to 45 or 70(GAP) cols., 10 lines, and add newest file date if FILE_ID.DIZ is under 10 lines in length.
- o Extract DESC.SDI if present
- o Use a RAMDISK for temporary files, increasing speed (Optional)

Create a *.BAT file, such as "FTESTZIP.BAT", and put the following information in it. Let Power BBS know where this *.bat file is located. {Run Configuration for Power BBS, select General Forum Setup, Option: 12. Test Setup.}

```
c:\powrbbs\convdoor c:\powrbbs\userinfo.bbs c:\powrbbs\data\users
c:\powrbbs\dorinfo1.def 2 fbrain file=%1 node=1
```

Now your ready to run the setup program that comes with File Brain. The following is how I have mine setup, but you can add or drop options to suit yourself.

```
[File Brain]
File Brain serial number=0000
Bad Files=MOVE
Fbrain work drive=C:
Test GIF=NO
Add GIF resolution=NO
Use upload date=NO
Test TD0=YES
Convert archive to=NONE
Extract FILE_ID.DIZ=YES
Check date=YES
Old file date=01/92
Skip test level=500
Junk directory=C:\POWRBBS\REJECTS
Virus tester=C:\SCAN\SCAN.EXE /NOMEM/NOPAUSE
Add Fbrain ZIP comments=NO
Dupe check batch file=NONE
Dupe errorlevel=0
check cdroms=0
```

FILE BRAIN
(C) Copyright 1993 by Stanley Sheff
Support BBS: The Brainex System
(310) 275-2344
(310) 273-5234

21.0 Setting up an advanced file viewer

The default setting to view files is PKUNZIP -V. This doesn't permit your users to

actually view files in a .ZIP (or .lZH, etc).

AviewCom is an advanced file viewing program, and works with PowerBBS. It is VERY EASY to install onto PowerBBS. AviewCom will permit your users to read text files that are contained within an
archive file. Example look at AviewCom:

Performing ArcView on [Aview64g]

#	FileName	Stowage	UnZIP Sz	ZIP Size	Pct	Date	Time	CRC
1	av-pif.dvp	Implode	416	126	70%	03/29/92	12:15	A3D5C9F9
2	aviewcom.hlp	Implode	11777	3801	68%	07/09/92	09:02	277FA9AF
3	aviewcom.doc	Implode	41104	13819	67%	02/24/93	18:55	14DE017C
4	aviewcom.bye	Stored	50	50	0%	03/29/92	12:15	FFCA0810
5	aviewcom.pro	Shrunk	195	134	32%	03/29/92	12:15	ED85789B
6	aviewcom.hst	Implode	18870	5357	72%	02/24/93	18:25	0C5A9BB6
7	aviewcom.cnf	Implode	1817	1062	42%	08/04/92	21:42	99AB8C34
8	order.frm	Implode	2683	1037	62%	08/01/92	22:25	3C6261DC
9	viewcomp.bat	Implode	2145	1162	46%	02/24/93	19:19	3211EEF6
10	aviewcom.exe	Implode	55686	33961	40%	02/24/93	18:39	22212841
11	whatsup.doc	Implode	9614	4311	56%	02/24/93	19:08	A6B8AC4B
12	offer.txt	Implode	8081	3280	60%	02/24/93	00:32	F4CFE5FE

12 File(s) Pkunzip Total 152438 68100 56%

Enter [filename] or [#] to read, [V]iew, [L]ist, or [H]elp
[45] Mins Left [# [filename] D M V L H [Return] to Quit]?

To setup AviewCom:

- Call the PowerBBS Support BBS and Download AviewCom
  (As of this writing it is the file AVIEW64G.ZIP)
- UnZip the file into your \Powrbbs directory
- Replace PKUNZIP -V to C:\Powrbbs\AviewCom

That is all you have to do. PowerBBS has internal mechanism for dealing with AviewCom. All you need to do is listed above!

AviewCom is (c) 1993 by Cygnus Data Systems. It is a shareware program. If you use it, please support it!

22.0 Sysop Menu

You can enter the SysOp Menu by pressing 1 at the main menu (of course you must have SysOp security access).

The following Commands Are Available:

1.ACTIVITY LOG

By selecting this option, you may view the activity log of a node. (What users did while they were online)

2.LIST USERS

List all the Users of your BBS.

3.DROP TO DOS

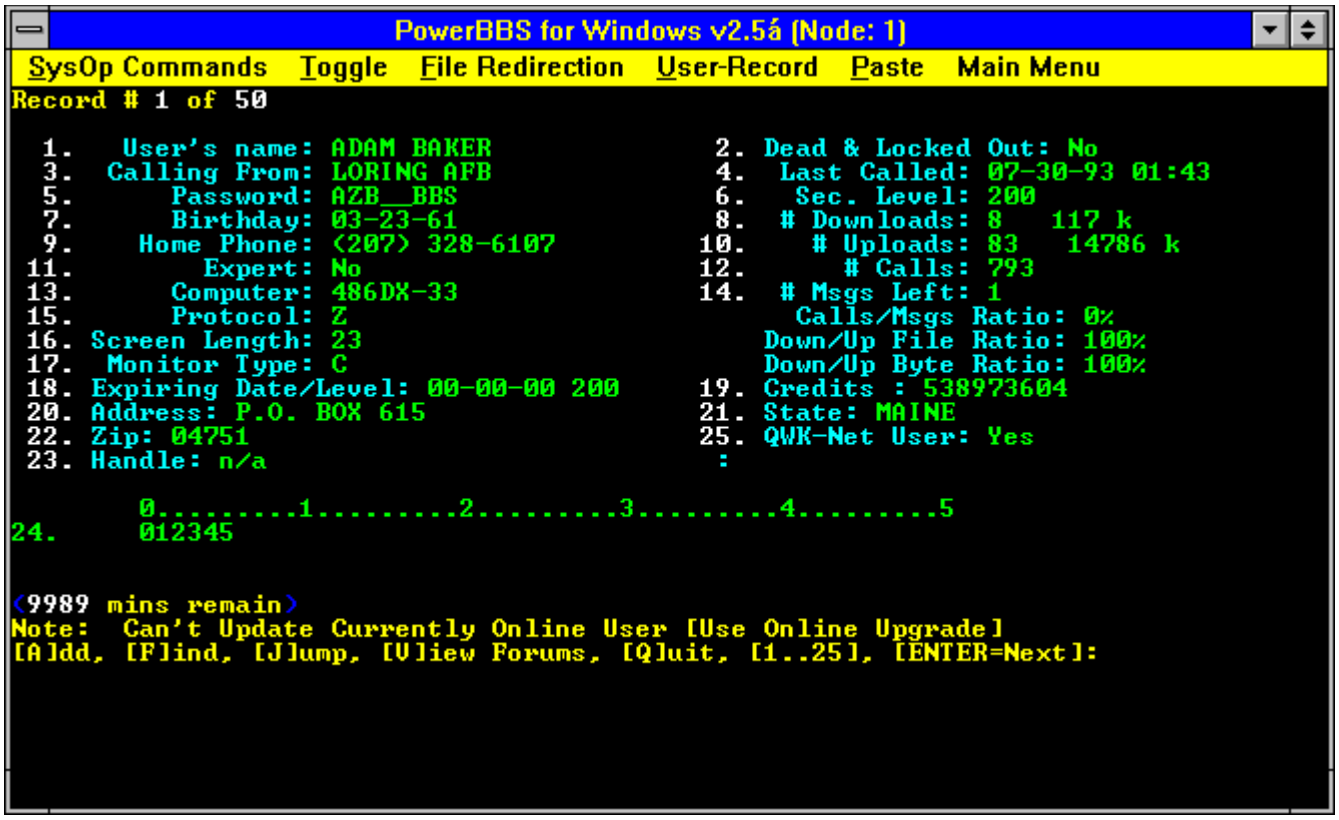
Available via D)os Functions. Permits you to DROP to DOS. Note that this function, runs the REMOTE.BAT. For FULL Drop to DOS capability you must run DOORWAY. Doorway is a shareware program that is available for download on the support BBS.

4.PERFORM DOS FUNCTION

This just performs a DOS function and returns to BBS. No direct interaction. Be aware that you can crash your BBS if you perform a function remotely, that requires DOS interaction.

5.UPDATE USER DATABASE

This is the most important SysOp Menu function. Here is where you can actual update the User Database. The following options are available to you:



By selecting the option #, you can change the information in the User Record.

22.1 Deleting a User

Select Option # 2. Dead & Locked Out will be toggled. The next time you PowrPack your USERS file, the user will be removed from disk.

22.2 Updating a Users Forum Access

To change the forums a user has access to (use this to give a user access to a private forum), select option #24. Note that use the * key to select forums for access.

Example:

Enter * for forums to give access, or [Enter] for no change.

```
          0.........1.........2.........3.........4.........
Access= *         *
```

The above would give access to forums #0 and forum #10.

Be aware that even if you take access away from a user, if it is a public forum and they have high enough access they will be given access to the forum automatically.

To update the currently online user, use the menu select to upgrade user online.

22.3 Adding a User

To add a new user, simply select [A] from the menu. You will then be prompted for the users FULL Name, and information regarding the user, including the users password. Be sure you have all the information you need on the user before continuing.

23.0 Run External DOS Programs on Logon & Hangup

There are two specific batch files that PowerBBS checks. If the DOS batch files exist, PowerBBS will load and run them. By utilizing this capability, it is possible for you to run utilities after each caller (such as a utility creating a list of the last 5 callers).

The Logon batch file is run everytime a caller logs on. The file PowerBBS looks for is in your PowerBBS directory and is called "LOGON" + the node number + ".BAT"

For example if you are running node #1 and the file "\POWRBBS\LOGON1.BAT" exists, then the file will be run. If it doesn't exist, nothing happens.

Similiarly, after a caller logs off PowerBBS searches for the LOGOFF file. As above the node #1 file would be "\POWRBBS\LOGOFF1.BAT".

24.0 PowerLang - Advanced Script Language

PowerLang is a BASIC-Line command structure, that permits you to create your own menu routines. PowerBBS can automatically execute this script language. See the MENU setup for adding a PowerLang into your Menus. Normally you will edit with an ASCII editor (such as NotePad) the file C:\POWRBBS\SOURCE\#.LAN where # is the PowerLang Script #.

Be aware that the values for Strings, Integers, Booleans, and Chars can be between 1 & 25.

Here are the commands which are currently available in PowerLang:

Activity

Structure: Activity "Info to be written to Activity Log"

Description: Writes info to the Activity Log. Info in quotes can be no larger than 75 characters.

Examples: Activity "Added BBS to BBS Listed"
Activity "Loaded Viewage program"

Append

Structure: Append "Path/Filename to open file for Append"

Description: This command will open a file to write to. If the file is not found, it is created. The Write_File command will write to the end of the file. The file is NOT DELETED, the data is written to the end of the file.

Examples: Append "Blt.Dat"
Append "BBS.Lst"
Append "D:\Powrbbs\Blt\Blt4"

Change_Area

Structure: Change_Area "[Forum to change to]"

Description: Will change to the forum selected in quotes.
Ex: Change_Area "0" will change the user to forum #0

ClearScreen

Structure: ClearScreen

Description: Clears the screen

Examples: Clearscreen

Close

Structure: Close

Description: Closes the current open file (If a file is currently open)

Examples: Close

Dec

Structure: Dec [Integer Code] [Integer Code]
Dec TIME [integer Code]
Dec SAFE [integer Code]

Description: Decreases the integer. For example, if you do (Dec I1 I2), if I1 = 12 and I2 = 5, I1 becomes 7 and I2 stands at 5.

You can Decrease the users TIME or SAFE by using this command.

Examples: Dec I5 I7
Dec TIME I1
Dec SAFE I1

Delete_File

Structure: Delete_File "[Path/Filename to delete]"

Description: Deletes the file you specify in quotes

Examples: Delete_File "C:\Junk.Txt"

Display

Structure: Display "[Text to be displayed]"[;]
Display S1[;]
Display I1[;]

Description: Display sends text to the caller, and writes the info on the local monitor.

Usage: Text in " can be anything BUT Quotes ('"').
If a Comma (';') is placed at the end of the line,
no return (C/R) is send and written on the monitor.
If no Comma is present, C/R is sent and written on
the local monitor.

To display a string or integer, just enter the code of
the string, integer.. You MUST include the S or I.

Examples: Display "Welcome to the FUN world of BBSing.. "
Display "Enter your name: ";
Display I1
Display S1;
Display S1

Dos

Structure: Dos "[Dos Command Line]"

Description: Shells to DOS, and runs the command in quotes (" ").
When the shell is complete, if the log file is found,
it is displayed and then erased.

Examples: Dos "Dir >|LOG|"
This will do a directory of the current location, and
send the output to the |LOG| file. The |LOG| file
is then displayed and erased.

Dos_Windows

Structure: Dos_Windows "[Windows PowerDOOR Command Line]"

Description: Shells to run a PowerDOOR, and runs the command in quotes (" ").

Examples: Dos "c:\mail\powrmail.exe |PBBSDAT|"

Give_Value

Structure: Give_Value S1 "This is what S1 will equal"
Give_Value I1 "300"

Description: Assigns the identification code (either string or integer)
a new value which is assigned in quotes.

Examples: Give_Value S9 "Welcome..."
Give_Value I1 "1"

If (EndIf)

Structure: If [!] [Flag #]
If [!] [Char #] = "Character to compare character # with"
If [!] I1 = I2
If [!] I1 > I2
If [!] I1 < 12
If [!] S1 = S2
If [!] S1 > S2
If [!] S1 < S2

Description: The If statement, will check to see if the flag is true, or
if the character is equal to the character in quotes. If
the definition is true, all the commands after the If statement
will be run, until an EndIf statement is reached.

If statements for integers can compare different integer values..

The ! is optional, and stands for Not. In this case, if the
definition is false, then the if statement is run.

Examples: If B1 (Use B and the number for flags)
Display "B1 = True"
Display "This statement is still run"
Endif

If ! B1
Display "B1 = False"
Endif

If C1 = "A"
Display "The Character #1 is equal to A!"
Endif

If ! C1 = "A"
Display "The Character #1 is NOT equal to A!"
Endif

```
        If I1 > I2
                Display "Integer I1, is greater than I2!"
        Endif
        If I1 = I2
                Display "Integer I1, is equal to I2!"
        Endif
        If I1 < I2
                Display "Integer I1 is less than I2!"
Endif
```

Note: You can place if statements, within an if statement.. Examples:

```
        If C1 = "A"
                If I1 < I2
                Display "I1 < I2 and C1 = A!"
                Endif
                If I1 > I2
                Display "I1 > I2 and C1 = A!"
                Endif
                Display "GoodBye!"
        Endif
```

Get_Return

Structure: Get_Return

Description: Forces the caller to type RETURN

Examples: Get_Return

Get_Choice

Structure: Get_Choice [Ok_Char_String] [Char #]

Description: Forces the caller to keep inputing, until one of his characters is contained in the OK_Char_String. The Char # is given this value. The Char # can be from 1 - 25, and is understood as C and the number, such as C1. C does not have to be present in this command.

Examples: Get_Choice YN 1
This command will wait until Y or N is pressed, and give C1 the value which is pressed.

```
        Get_Choice ABCDEFG 4
```

This command will wait until one of the letters A,B,C,D, E,F, or G are pressed, and give C4 that value.

Get_Yesno

Structure: Get_YesNo [Flag#]

Description: Forces caller to type Y or N.
If Y is pressed the Flag# given is assigned True

If N is pressed the Flag# given is assigned False

Usage: The Flag# is a number from 1 to 25 (NO higher, NO lower). B can be placed before the number, but is not necessary in this function. (It IS nessassary in other functions)

Examples: Get_YesNo B1
Get_Yesno B3
Get_Yesno 4

Goto

Structure: Goto [Line to move to]

Description: Goes to a certain line number. Lines designated for GOTO, begin with :.

Examples: Goto END
:START
DISPLAY " This is Start "
:END
DISPLAY " This is End "

Inc

Structure: Inc [Integer Code] [Integer Code]
Inc TIME [integer Code]
Inc SAFE [integer Code]

Description: Increases the integer. For example, if you do (Inc I1 I2), if I1 = 5 and I2 = 12, I1 becomes 17 and I2 stands at 12.

You can increase the users TIME or SAFE by using this command.

Examples: Inc I5 I7
Inc TIME I1
Inc SAFE I1

Input_String

Structure: Input_String [Max String Length] [String #]

Description: Gets a string from the caller (Combination of any characters), up the the Maximum string length. The Value of the String Input is given to the String #.

Usage: The Input String Number, is a variable defined as S and the number of the string which can vary from 1 to 15. You can have up to 15 strings (S1-S20). In this function, only the number of the string has to be given, since only strings are outputted. The Maximum length a string can be is 50 characters.

Examples: Input_String 50 1

Input_String 25 2
Input_String 40 S3

Int_To_Str

Structure: Int_To_Str [Integer Code] [String Code]

Description: The integer value from the integer code is assigned to a string

Examples: Int_To_Str I1 S1
Int_To_Str I19 S5

Number_Input

Structure: Number_Input [Number Format] [String #]

Description: Inputs a number-format, and sends input to the string # defined. The Number Format is the same used in the script questionnaires. In for Number Format, wherever a # is placed, the caller must enter a number. Anything else in the format, is just displayed to the user, and also entered in the string #.

Examples: Number_Input (###) ###-#### S1
Number_Input ##-##-## S2
Number_Input ##/##/## S3

Return_To_BBS

Structure: Return_To_BBS

Description: Quits, and returns to PowerBBS

Examples: Return_To_BBS

Run

Structure: Run "[PowrLang Source Code Path/Name to Run]"

Description: Quits out of the current code, and runs the code specified in the Run QUOTES. It quits the current code, and WILL NOT COME BACK (Unless that source RUNs the current code again).

Usage: Run "EndOf.Pow"
Run "Menu.Pow"

Run_Menu_Command

Structure: Run_Menu_Command "Menu command # to run"

Description: Will take a built in Command, and run the option.

Example: Run_Menu_Command "1"
This will run the Forum Area Change built in command.

Run_Menu_File

Structure: Run_Menu_File "[menu to run]"

Description: Will load another menu

Example: Run_Menu_File "1.MNU"

Set_Flag

Structure: Set_Flag [FLAG #] [YES/NO]

Description: Sets the flag # to either true (YES) or false (NO).
Flag # can be a number from 1 - 25.

Examples: Set_Flag B1 YES
Sets flag #1 to True
Set_Flag B19 NO
Sets flag #19 to False

Str_To_Int

Structure: Str_To_Int [String Code] [Integer Code]

Description: The Integer value of the string is assigned to the integer code

Examples: Str_To_Int I1 S1
Str_To_Int I19 S5

Type_File

Structure: Type_File "[Path/Filename]"

Description: Types a file to the screen and to the caller.

Usage: In " " should be the path/filename of the file you want to be typed to the caller and monitor. No " should be present.

Examples: Type_File "C:\Powrbbs\Screen\Menu"
Type_File "D:\Fun"

Type_File_List

Structure: Type_File_List "[Path/Filename]"

Description: Use this command the same as Type_File, except Type_File_List will display the file as though it is a fie listing (meaning, PowerBBS will automatically color the listing if a user has color).

Up_Sec

Structure: Up_Sec [Old Security Level] [New Security Level]

Description: Updates a user with security level [Old Security Level] to [New Security Level].
ONLY updates user with security level specified.

Examples: Up_Sec 10 20 Updates level 10 users to level 20

Wait

Structure: Wait [MilliSeconds to Pause]

Description: Waits for the certain time in milliseconds. 1000 => 1 Second

Examples: Wait 5000 :: Pauses for 5 Seconds ::
Wait 200 :: Pauses for .2 Seconds ::

Write_File

Structure: Write_File [String #][;] [/String Length]
Write_File "[Text to write]"[;]

Description: Writes Info to the current opened file. File must be opened for REWRITEing, or APPENDing.
String # is the String #. If no ; is present, C/R is entered in the file. If there is a ;, no C/R is present, you can then use the / command. The /# will write the string to the file, set in the number of strings. For example, if you write S1 to the file and S1 = "516", but you want the file to be cleared for the next data, you can use Write_File S1; /4 which will write "516 ", instead of "516".

Info written in Quotes, will be written to the text file.
; places the same role as above. No / is supported.

Examples: Write_File S2
Write_File S2;
Write_File S2; /5
Write_File "516-873-8032"
Write_File "516-873-8032";

24.1 BBS Database in PowerLANG

Example [1.Pow]:

```
:BEGIN
Display
Display
Display " @2@BBS Database...   @8@Written By Russell Frey in PowrLang... "
Display
Display " @7@[@9@A@7@]dd to Local BBS Listing"
Display
Display " @7@[@9@V@7@]iew Local BBS Listing"
Display
Display " @7@[@9@Q@7@]uit to Main Menu"
Display
```

```
Display " @1@(@2@|MINLEFT|@7@ mins Left@1@)@3@ Enter Command: @3@";

Get_Choice AVQ 1

Display
Display

IF C1 = "V"
Type_File "Local.Lst"
Get_Return
Goto BEGIN
EndIf

If C1 = "Q"
Return_To_BBS
Endif

Display
Display "        Enter the BBS Name (25 Chars): ";
INPUT_STRING 25 1
Display

Display "Enter the PHONE Number (XXX-XXX-XXXX): ";
NUMBER_INPUT ###-###-#### 2

Display "Enter the highest BAUD rate (5 Chars): ";
Input_String 5 3
Display

Display "          BBS Software Used (9 Chars): ";
Input_String 9 4
Display

Display "Description of this BBS? [2 Lines/30 Chars]: ";
Input_String 30 5

Display "Description of this BBS? [2 Lines/30 Chars]: ";
Input_String 30 6

Display
Display "Add Entry To BBS List File? (Y/N) ";
GET_YESNO B1

If ! B1
GOTO BEGIN
EndIf

APPEND "Local.Lst"

WRITE_FILE S2;
Write_File "  ";
Write_File S1; /25
Write_File "  ";
Write_File S5
Write_File "Highest Baud: ";
```

```
Write_File S3; /5
Write_File "  ";
Write_File "Software: ";
Write_File S4; /9
Write_File " ";
Write_File S6
Write_File " "
Close

GOTO BEGIN
```

24.2 Safe (Save Time) in PowerLANG

Example [3.Pow]:

```
:BEGIN
Display
Display " @5@Minutes in safe: @3@|SAFE| "
Display " @7@[@9@T@7@]ake from safe, [@9@P@7@]ut into Safe,
[@9@Q@7@]uit?@3@
";
Get_Choice TPQ 1
Display
Display

If C1 = "Q"
Return_To_BBS
Endif

If C1 = "P"
Give_Value I1 "|SAFE|"
Give_Value I2 "60"
Give_Value I5 "|MINLEFT|"
Dec I2 I1
Display "@2@Put how many minutes into the safe (Max:@3@ ";
Display I2;
Display "@2@)?@3@ ";
Input_String 2 S1
Display
Str_To_Int S1 I4

If I4 > I5 Then
 Display "@9@You don't have that much time!"
 Goto BEGIN
Endif

If I4 > I2 Then
 Display "@9@Safe can't hold over 60 minutes!"
 Goto BEGIN
Endif

INC SAFE I4
DEC TIME I4
Endif

If C1 = "T"
```

```
Display "@2@Take how many minutes from the safe (Max: @9@|SAFE|@2@)?@3@ ";
Give_Value I1 "|SAFE|"
Input_String 2 S2
Display
Str_to_int S2 I2
If I2 > I1
 Display "@9@Sorry, the safe only has |SAFE| minutes! "
 Goto BEGIN
endif
DEC SAFE I2
INC TIME I2
Endif

Goto BEGIN
```

24.3 Graffit Wall In PowerLang

```
Display "@7@   Grafitti Wall"
Display "@5@   By Gerral Reeves"
Display "@2@   The SouthSide BBS"
Activity "Entered The Wall"
wait 800

:AGAIN
Display
Display
Display"   Hello |FIRST|, Welcome to the Grafitti Wall...."
Display
Display
Display
Display "                    (W)rite on The Wall"
Display "                    (R)ead The Wall"
Display "                    (Q)uit back to the BBS"
Get_Choice RWQ 1

If C1 ="R"
Activity "reading The Wall"
Type_file "C:\PowrBBS\Data\GRWL"
Display "@1@************************************************************"
Display
Display
Get_Return
Goto AGAIN
Endif

If C1 = "W"
Activity "write on The Wall"
Goto WRITE
Endif

If C1 = "Q"
Activity "exited The Wall"
Return_to_bbs
Endif
Goto AGAIN
```

```
:WRITE
Display
Display "Enter A line (Max 60 characters)."
Display "@1@|@6@--------@5@|@6@---------@5@|@6@---------@5@|@6@---------
@5@|@6@---------@5@|@6@---------@1@|"
Input_String 60 S1
Display
Display
Display S1
Display
Display "@2@Is this Correct? (@7@Y or N@2@)"
Get_YesNo 1
If ! B1
Goto AGAIN
Endif

Append "C:\Powrbbs\data\grwl"
Write_File "************************************************************"
Write_File S1
Close

Append "c:\powrbbs\data\GRWLC"
Write_File "@1@************************************************************"
Write_File "@2@";
Write_File S1
Close

Goto AGAIN
```

25.0 QUESTIONNAIRES

The questionnaire system gives the Sysop the ability to ask the callers questions, and respond with answers. PowerBBS uses a simple line-oriented language and text files to do this.

In the CONFIG program, you filled in two important pieces of information:

a) Questionnaire menu file (Display Files #1 Screen, Entry #12)
b) Questionnaire data file (Data Files #1 Screen, Entry #1)

When the caller, selects the Q function (At the Main Menu), he/she is shown the questionnaire menu file. The caller can then select the questionnaire he/she wants to answer.

To create the questionnaire file, you have to create the ASCII file (You can use NotePad), using the questionnaire command structure. You are provided with sample questionnaire files. Viewing these files will help you in making your own questionnaires.

The questionnaire commands are as follows:

Be sure not to use ANY commas except for the designed areas. You can not use: |Welcome, to our BBS. You can use: |Welcome to our BBS.

| : Begin line with a | for display of any string to the right. It will not ask any questions of any sort.

1,3,How old are you?
Structure: 1,<Max Length>,<Question>

To ask a Question with a string result begin a line with the number 1 and a comma. The next data is the maximum length the user can respond. The above command will permit only 3 characters at the most for the caller to respond with. The last data is the question you want to be asked. The above command will permit a string input, with a maximum of 3 characters, and the question: How old are you? to appear on the screen. A maximum of 75 characters is permitted for <Max Length>

2,Are you a sysop?
Structure: 2,<Question>

To ask a Yes/No Question, begin a line with a 2 and a comma. The only other information required is the question. The above command will display: Are you a sysop? (Y/N). The (Y/N) is added automatically in PowerBBS to let the caller know Y or N must be hit.

3,(###) ###-####,What is your business telephone #?:
Structure: 3,<Input Form>,<Question>

This is the most complicated command you will come across. Be certain you know what your doing when using this command! This command gets a full input of numbers and will not let the caller quit till all the numbers are filled. Begin the line with a 3 and a comma. On the next command be careful. You can form any number input you want. The #'s will be inputed where the # is. All the other text is displayed and added to the output file. The above example: (###) ###-#### is one way of doing a phone number. A date would be ##-##-## or ##/##/##.

4,10,50 4,<Access Level>,<New Access Level>

This option permits you to upgrade users, but only of a certain

access level. In this example (4,10,50), users are upgraded from level 10 to level 50. ONLY level 10 users are upgraded to level 50.

Each time the questionnaire is answered, the answers are appended to your answers file. It is a simple text file, with the user info, his/her record #, and the questions/answers.

5,50 5,<Pow file to run>

The above (5,50) will run 50.POW in your SOURCE directory.

25.1 Example Questionnaire

```
|*****************************************************
|*              The New Generation BBS System                    *
|*                >>>> Questionnaire #2 <<<<                     *
|*                  For Visiting Sysops                          *
|*****************************************************
|
1,30,Are you the sysop or the co-sysop?
|
3,'(###) ###-####',What is the phone number?
|
2,Is it a Subscription BBS?
|
1,30,What times is your BBS Opened? (24 Hrs / 6pm-6am / etc)
|
1,30,What BBS Software are you running (Include ver #)
|
1,10,How long has your BBS been running?
|
|Thank you for filling in the questionnaire.
|
|Please read the information on PowerBBS and purchasing infomation.
|
|As you probably noticed PowerBBS includes a POWERful script system
|which gives you the ability to do many things!
|
```

26.0 Setting up a Multi-Line System

PowerBBS is a multi-node BBS Program. With it you can run a multi-line BBS. To run a multi-line BBS, you should first setup node #1 as described by install. To add another node:

o Copy your PowrBBS.Dat file to another file. We suggest PowrBBS2.DAT

o Create the PowerBBS/Config Icons for this new data file
o Run Config on the new data file
- Edit the forum infomation screen and change the node specific info
- Be sure Options Screen #3, Entry #6 is different for the new node
- If you are running an Event.Bat; Be sure the path\file name of the event batch file is different for every node!
- Be sure you are using a different COM PORT!

If you are running more than one node on one computer, be aware that you must have a different IRQ for each node.

PowerBBS will work properly in a Network, so long as you have Windows installed correctly. You can run 4 lines on 2 computers, sharing a hard disk, to provide an 8 line BBS.

I f you want to run a subscription only node, usually the best setup is to create a different security level file for each node. On the subscription node, limit a normal users security level to 2 minutes, and 0 downloading.

27.0 Setting up a PAY Credit System

The usual method to limit one's use of your system, would be by putting a time limit (in the seclevel file), to once's security level. You should normally use this method (Look at your security level file in the data files #1 section of Config). This method TAKES A LOT MORE WORK as you must constantly update users credits.

By selecting the "Use a Credit System" in CONFIG, the following system will result:

* Each user must be granted a certain amount of credits by the Sysop, manually via the Update Users selection of the Sysops Menu.
* The maximum amount of credits used per day, is the amount of time given (for example, if a 50 level user is given 50 minutes, then they will only be able to use 50 credits for the day).
* using this CREDIT system, you can adjust each menu option to use a certain amount of credits (Entry #5 in the EDIT MENU section), by changing the TIME attribute in the EDIT MENU section.

Screen to display when credits are used (edit in CONFIG): This menu option should include the path/filename of the screen filename to display, when the credits are VERY LOW. This should give the user information on ordering more credits, etc.

28.0 PowerPack

External mail packing system written by Russell Frey

28.1 Packing Message Bases

The forums you set up, each contain a separate mail file for the message system. Callers will leave new messages, delete some, etc. This calls for the need of a program to get rid of the deleted messages, and freshen up the message base. PowrPack.exe is located in \POWRBBS, and is a DOS program.

Packing a forum file is defined as:

PowrPack MAILFILE DELETE DAYS:xxx TOTAL=xxx

When running PowerPack, be sure all your commands are in CAPS. Putting any commands which are not recognizable, or which are not in CAPS will bring the program to termination.

Command Description

MAILFILE This is the path/filename to the message base you are packing. The message base should contain no extension.
Example is: C:\Powrbbs\Forum\General
D:\Fun\Games
The path/filename does not have to be put into caps
(The only one that doesn't).

DELETE This is an optional command. Place this in the command line if you want to delete all private & read messages.

DAYS:xxx Use this command to specify the oldest age message to keep.
Examples:

DAYS:365 This will delete all messages older than 365 days
DAYS:30 This will delete all messages older than 30 days

** NOTE ** DAYS:xxx is an optional command.

TOTAL=xxx Use this command to specify the maximum number of messages to keep.
If the number of messages are larger than this, the oldest messages will be deleted.

Example, if you have 2500 messages in your SysOp forum, and you have the command TOTAL=2000, at least 500 messages will be deleted.

** NOTE ** TOTAL=xxx is optional.

The commands here can be mixed, so long you AT LEAST have the MAILFILE, otherwise nothing can me done.

This program is good for running in your events.

Example Commands:

PowrPack C:\Powrbbs\Forum\General
PowrPack C:\Powrbbs\Forum\General TOTAL=500
PowrPack C:\Powrbbs\Furum\General DELETE DAYS:60

Line #1 will refreshen the message base. It does nothing more, then delete the

deleted messages. All valid messages will stay intact.

Line #2 will do the same as #1, with the exception: The maximum messages PowrPack will permit is 500. If you go over 500 messages, PowrPack will delete the old messages till 500 messages are there.

Line #3 will do the same as #1, in addition to deleting all private and read messages, and also deleting all messages over 60 days old.

28.2 Packing User Files

Packing a User file is defined as:

PowrPack /U USERFILE INDEXPATH DAYS:XXX FORUM:XXX START:XXX ADDRESS

Be sure to use CAPS.

Command Description

/U You MUST put /U right after PowrPack. This tells PowrPack that you want to Pack a USER file.

USERFILE Enter the full path/filename of the user file to process. Example: C:\Powrbbs\Data\Users User files SHOULD NOT have extentions!

INDEXPATH Enter the DIRectory which contains your INDEX. Example: C:\ Powrbbs\Index

DAYS:xxx This is the ONLY optional command. All users who have not logged on for xxx days will be deleted. DAYS:20, will delete all users who have not logged on for 20 days. DAYS:200 would be 200 days, etc.

FORUM:XXX & START:XXX commands enable you to set the last message read pointer in a particular forum, to some value. Example: FORUM:1 START:100 will set everyones last read pointer to 100 in forum #1.

ADDRESS By putting ADDRESS on the line, the file ADDRESS.DAT will be created with all your user's addresses listed.

29.0 Convert Door (CONVDOOR.EXE)

Converts PowerBBS's Userinfo To DOOR.SYS or DORINFO1.DEF

Use this program to support Live Programs which require the DOOR.SYS or DORINFO1.DEF standard.

Usage: CONVDOOR [PowrBBS Userinfo] [Users File] [Output File] [(2)]

[PowrBBS Userinfo] Current NODES userinfo.bbs file
Set in CONFIG [A] - Node info screen

[Users File] Path to USERS Record file
Usually \Powrbbs\Data\Users

[Output File] This is where to put the output information, such as Door.sys

[(2)] This is an optional command. If you want to convert to DOOR.SYS, put NOTHING here. If you want to convert do dorinfo1.def, put 2 here!

Examples to convert to DOOR.SYS

Convdoor C:\Powrbbs\Userinf1.bbs C:\Powrbbs\Data\Users C:\Doors\Door.sys
Convdoor D:\Powrbbs\Userinfo.bbs D:\Powrbbs\Data\Users D:\Pdoor\Door.sys

Examples to convert to DORINFO1.DEF

Convdoor C:\Powrbbs\Userinf1.bbs C:\Powrbbs\Data\Users C:\Doors\Dorinfo1.def 2
Convdoor D:\Powrbbs\Userinfo.bbs D:\Powrbbs\Data\Users D:\Pdoor\Dorinfo1.def 2

Here is an example batch file to start a chess program:

```
Convdoor Userinfo.bbs \powrbbs\data\users door.sys
cd\Chess
Chess
Start  (* Only needs START.BAT in DOS VERSION door batch files! *)
```

You should always run convdoor first. This will create the door.sys or dorinfo1.def file.

30.0 PowerNet (QWK-Based Mail Networking)

30.1 About PowerNet v1.0

PowerNet is a QWK mail tosser for PowerBBS that extracts messages from your BBS and creates a REP packet that is sent to another BBS via your DOS based communication software. Conversely a QWK packet can be downloaded from another BBS and is converted to a REP packet that is accepted by your BBS. Message pointers are saved on both the import and export functions so the chance of duplicate messages being passed is minimized.

Although this system of mail exchange works with PowerBBS, you can join a QWK Mail Network with ANY BBS SOFTWARE which has QWK Mail capability.

30.2 What is Required for PowerNet v1.0

PowerNet requires that the first line in PowerMail's ZIPMAIL.BAT and UNZIP.BAT contain "C:" (no quotes) in order to function (or if you are using a different drive, the drive such as D:). In addition, a DOS based communications package such as TELIX is needed to do the actual transferring of QWK and REP packets. Since this is to be run automatically from a batch file, it is important that you are familiar with the scripting language of your communications software. PowerNet is to be run from your EVENT.BAT or as an external event which can be handled by Front Door.

30.3 PowerNet v1.0 Setup

Create a "Junk User Name" from the Sysop Update User command located in the Sysop Menu. We'll use the name "Al Doe" as an example. Update the users record to make sure that adequate security is allowed to access the selected forums as the name "Al Doe" will be used to set the Last Read Message pointers. Do not give the junk user high enough access (usually 150) to read any mail, or else all your private messages may be exchanged.

Unzip the PowerNet files into your PowerBBS directory and modify the files

EXPORT.BBS, IMPORT.BBS and the sample batch file SAMPLE.BAT.

For EXPORT.BBS, the set up is the following:

```
;This is the Tagline for your BBS!
69,10
70,1
71,2
```

The first number corresponds to your forum # and the second corresponds to the other BBS's forum # to convert. Please note that Forum 0 is not currently supported by the EXPORT and IMPORT BBS configuration files. Note that the first line should contain a semicolon followed by the
tagline you want your BBS represented as.

For IMPORT.BBS, the set up is the following:

```
10,69
1,70
2,71
```

The first number corresponds the other BBS's forum # and the second corresponds to your BBS's forum # to convert. In either case if forums are scanned for messages and their corresponding forum numbers are not found in the BBS files, the messages will be dumped in Forum 0. This also applies to private messages if the receiving forums are set for public access.

To extract a QWK packet and convert it to a REP packet for export to another BBS the syntax is the following (all in caps):

GETREP [PATH/FILE POWERBBS.DAT] [TWO WORD NAME] [THEIR PACKET NAME] [EXPORT.BBS]

Example:

GETREP C:\POWRBBS\POWRBBS.DAT AL DOE POWERBBS C:\POWRBBS\EXPORT.BBS

To take another BBS's QWK packet and convert it to a REP packet for import to your BBS the syntax is the following (all in caps):

UPQWK [PATH/FILE POWERBBS.DAT] [TWO WORD NAME] [LOCATION OF THEIR.QWK] [IMPORT.BBS]

Example: (all should be on one line)

UPQWK C:\POWRBBS\POWRBBS.DAT AL DOE C:\TELIX\DOWN\POWERBBS.QWK C:\POWRBBS\IMPORT.BBS

Review the ECHO statements included in the SAMPLE.BAT and tailor it to suit your system. Scripting languages will not be explained.

Sample.Bat

```
REM SAMPLE.BAT

ECHO Exporting QWK from your BBS and converting to REP
C:
CD\POWRBBS
GETREP C:\POWRBBS\POWRBBS.DAT AL DOE POWERBBS C:\POWRBBS\EXPORT.BBS
PKZIP POWERBBS.REP \MAIL1\POWERBBS.MSG

ECHO Copying REP packets to your Communication package Upload directory
COPY C:\MAIL1\POWERBBS.REP C:\TELIX\UP
```

```
ECHO Killing REP work files
DEL C:\MAIL1\POWERBBS.*

ECHO Run TELIX script to download new QWK packets and upload REP Packets
CD\TELIX
TELIX QWKMAIL.SLC

ECHO Importing QWK packets that are converted to REP for your BBS
CD\POWRBBS
UPQWK C:\POWRBBS\POWRBBS.DAT AL DOE C:\TELIX\DOWN\POWERBBS.QWK C:\
POWRBBS\IMPORT.BBS

ECHO Deleting old REPs and QWK files (you may wish to save or move them)
DEL C:\TELIX\UP\POWERBBS.REP
DEL C:\TELIX\DOWN\POWERBBS.QWK
CD\POWRBBS

ECHO ALL DONE!
```

Note the Line: PKZIP POWERBBS.REP \MAIL1\POWERBBS.MSG; This is the line which actually creates the .REP. It not only creates the .REP but avoids packing in other junk, the normal ZIPMAIL.BAT would create.

30.4 PowerNet Connection To Host End

Under normal QWK mail exchange conditions, the names are usually changed on the Host side to your name. We must permit the use of any name when calling the Host. Also the Host must update your pointers accordingly to avoid duplication of messages. To provide a Host connection, tell the Host SysOp to enter the SysOps Update User Menu, and set you up for QWK-NET mail exchange status. The Host SysOp should have also editted their TAGLINE in PowerBBS's Config.

When calling the BBS to exchange messages, use the following logon routine:

Enter your Full Name: #Q#My Name

By entering #Q# before your name, this puts PowerBBS into QWK-MAIL Networking mode.

1. You will download the new mail from the BBS.
2. You will upload mail to the BBS.
3. Your pointers are automatically updated.
4. You are logged off automatically.

* You may exschange mail with any PowerBBS Professional Version. You however, do not need the professional version on your end. If you are not using the professional version, make sure that you have the proper files for mail exchange.

30.5 Other QWKmail Networks

PowerNet will function with other QWKmail Networks providing all is configured correctly. Permission from the Network Host is required prior to placing the Net's messages on your system.

30.6 Limitations

The DOS utilities GETREP.EXE and UPQWK.EXE are limited to the first 200 forums on your BBS. If there is a need to get around this, you can perform the following TRICK: Copy PowrBBS.Dat to a new file. Run CONFIG on this new file, and create a new POWRCONF.BBS (rename it). By entering information, you can trick PowerBBS. Note that you are still limited to 200 forums per "junk user".

30.7 PowerNet Support

Please report problems, suggestions, comments either on PowerNet or via these Support BBSes:
PowerBBS Support - Hicksville, NY, U.S.A. (516) 822-7396 (HST/v.32bis)
PowerBBS Support - Hicksville, NY, U.S.A. (516) 822-7568 (2400 Baud)
The Difference Engine - Guelph, ON, Canada (519) 766-4288 (v.32bis)

31.0 Using PowerBBS with Fido Compatible Mail Systems

31.1 AN OVERVIEW OF ECHOMAIL

PowerBBS is eminently compatible with all Fido and recently QWK mail networks. Networking is not simple but, it is well worth the effort. Networking is achieved with add on software that works with PowerBBS. One of the best things about PowerBBS is that it has an open interface to many programs, so you know that its mail interface can be kept current!

PowerBBS is a complete BBS; networking just makes it available to computer callers as well as people calling. Normally PowerBBS responds to live people calling and prompts them for passwords and names. The network interface you will add to PowerBBS, basically does the same thing for COMPUTER CALLERS!

The network interface programs are three parts.

1) A Program to answer calls AND appropriately route people or computers
2) A program to process incoming echomail
3) a program to load mail into the BBS and out when needed. Lets cover each of these program now.

First there is FRONT DOOR, which I recommend highly (though you can use any of other similar software of your choice). Second there is a Mail Tosser, I recommend Gecho (again you can chose anything similar) and finally there is the BBS Inter-face program InterPCB and specifically an OLDER VERSION available on the support BBS, InterPCB 1.52, Revised Jan 17, 1993, the newer ones WILL NOT work. There is also a program called PowerEcho, which I have a registered copy of. I am not using it (as of 7/93) because I have found it to be incompatible with several modern multizone mail tossers. The author is promising an upgrade which hopefully will resolve these problems. These three programs work as a team to automate your computer mail calls. The glue that holds these program together and makes them work as a team is a batch file called the EVENT.BAT.

We will now talk about each of these programs in sequence. I WILL NOT go into the detail of setting up each of these program as each comes with its own manual and you ABSOLUTELY SHOULD read and learn how each works so that your system can grow as you want it to!

When you call a PowerBBS that is linked to a network, the "Front End" decides if you are a LIVE PERSON calling or if you are a COMPUTER AUTOMATED MAIL CALL. If you are a live caller the "Front End" starts the BBS. If you are computer calling with mail the Front End prompts and password checks the COMPUTER calling to make sure it is mail you want to

receive. Then the front end will activate your batch file and your batch file will start the next needed program in the chain of events. The front end does this by passing data to the batch file and the batch file decides what needs to be done next by a bunch of simple programming statements (If this then ==> do that....format). I recommend Front Door because its setup is very logical and it is very widely used, so you can easily get help when you need it.

What info does front door pass to the event.bat? It passes a number which you setup in FD's Error Codes. This number triggers any of several other events. It may start the BBS for a live caller or it may start the Mail Tosser to process mail that was just received. For information on setting up FrontDoor, download the packet from any local BBS and read the documents. It is a must read. You cannot guess and it is a waste of my time and yours for me to try and duplicate what is already available there and better written. I will give you a few detailS about its particular setup with the batch file and I have pasted a copy of parts of my batch file, further down IN THIS DOCUMENT, for you to reference. You will have to change parts of the batch file to suit your setup and needs.

31.2 SOME DETAILS ABOUT SETTING UP FRONT DOOR

31.3 ERRORLEVELS

The ERRORLEVEL MENU is called from the MAILER option on the main menu. The errorlevels you enter here will trigger the errorlevel Front Door exits with when a human caller connects. Begin by setting the 300 baud errorlevel at 240, the 1200 baud errorlevel at 241, and continue this sequence. Go as high as todays standards allow so that if you get a faster modem, you will not have to redo this again. You will also see an option called RECEIVED MAIL, SET THIS ERROR LEVEL TO 255 <== This will trigger the needed error level to tell your event.bat to process mail that has just come in when a computer calls with mail instead of a human caller. The last option on this menu is to CREATE A .BAT FILE. Set this option to YES.

31.4 EVENTS IN FRONT DOOR

FRONT DOOR will run many events for you. Each event is an activity that you want front door to do automatically for you on a given day and time. The Event Manager in front door allows you to do this. There are two basic types of events. One is internal and the other external. The internal ones are ones that FD does by itself, such as call a BBS to send or recieve echomail at certain times of the day. An external one is one where FD exits with an Error Code (above) that starts a program or batch file to do your BBS work for you. An example of this may be creating a zip of all your recently uploaded files so that callers can download your latest up to date file listing every day.

Read the FD documents to learn how to set up the three basic events you will need. The first one is the "@ event" which will last all day and sets up how Front Door will behave. All other events are run with this event (several events can be active at the same time). The "@ Event" should begin at 00:00 and should end at 23:59. The second event is an "X event" and is used to run your external daily maintainence programs. Your third event (for now) is your mail event. This will make FD call your local echomail hub to get your Echo and NetMail. Read the FD documents to learn how to do this!

31.5 SETTING UP GECHO

You may use any fido compatible mail tosser (supposedly) but I have not found them ALL to work properly with PowerEcho or InterPcb. I suggest you use Gecho. First of all Gecho is set up a lot like FD (which is helpful) and secondly it has **THE BEST ON LINE HELP SCREENS ANYWHERE**. Re-read that! You WANT help! Gecho is superb! The price of the program

(last time about $30.00) is VERY WELL WORTH THE EXCELLENT HELP MENU ALONE! Gecho is also Superbly tuneable! Whenever you need to make changes it does it locally or globally with ease! Other mail tossers require tedious repititious text editing (such as Squish). Gecho also checks your files and directories and alerts you if you typed an error. This help will save you hours of error testing and debugging.

As with FD, read the manuals and from then on you will find the manual is ON-LINE by selecting help. Reading the manual will give you an overview of what you are doing and how to configure Gecho.

All you really have to do is Unzip Gecho into your \fd direcory (you will find this location usefull later) and run you configuration program by typing "Gsetup" at the DOS prompt. You will note how similar it looks to FD and you will love the Help screens which FD could use. Do NOT run Gecho for now. If you type Gecho at the DOS prompt, it will prompt you for command line arguments. You will run Gecho from your batch file, the event.bat. Actually Gecho will run automatically when your event.bat triggers error code 255 which you will set up in FD to tell the event.bat that mail is in! Are you getting the BIG PICTURE YET? This is the chain of events: FD receives a call from your hub (or you call your hub) for mail. Fd places the mail in a directory you have setup in FD and then it Exits (quits) with an error code of 255 passed to you Event.bat file, which is now running. Your event.bat now tests what NUMBER error code it has recieve (look at the event.bat at the end and you will see the "if error codes xxx then do xxxx activity" statements all lined up nice and neat! When it figures out that it got an error 255 it will go and start up Gecho which will now process the mail from FD and put it in your temporary directories. When that is done the event.bat will trigger InterPcb (or PowerEcho) to insert your echomail into PowerBBS. So our next topic is how to setup and run InterPcb. If you are using PowerEcho, just read the docs that come with it.

31.6 SETTING UP INTERPCB

Setting up InterPcb is a relatively simple task. First you must configure the Program and second you must setup your batch files to work with the program. Again, read the documentation. Once you read it (it is short) you will know what you are doing and that is necessary. Configuring InterPCB is simple. All you really have to tell it is your Sysop Name, your directory to put a log of its acitivities in and it asks for a path to your export areas file. This file is NOT needed by most software. IF you are using a mailtosser that reads the export areas file then put a path here. The export file is used to tell your mailer what areas to export mail from and if you can use it, it will speed up the export task. Gecho (as far as I know) does not use it.

Once Interpcb is configured (a two minute job) you will now have to setup the batch files it uses. I have TWO batch files setup in my interpcb directory. These are one for import and the second for export. An area in my EVENT.BAT calls these short batch files into action when InterPcb is importing or exporting mail. To illustrate the setup I have pasted my batch files here. Read the documentation and you will quickly see what each one does and why I have set it up that way. So without further adieu.....
Heeereesss the batch files ==>

31.6.1 Import Batch file:

```
@echo off
; rem Leaves messages after importing them to BBS ********************
:start
  C:\IP_PN\ip /f:C:\ECHOMAIL\%1 /p:C:\POWRBBS\FORUM\%2 /L /i /w /max:200 /s %3
  if errorlevel 10 goto userbreak        rem User break
  if errorlevel 6 goto pack              rem Index has to be packed
  if errorlevel 5 goto finished          rem Message base locked
```

```
  if errorlevel 4 goto wrongparams        rem Invalid parameters
  if errorlevel 3 goto nospace            rem Insufficient disk space
  if errorlevel 2 goto fatal              rem Fatal error
  if errorlevel 1 goto finished           rem No messages
  if errorlevel 0 goto finished           rem Don't Pack

:pack
  rem Instructions for powrpacking?
  echo ~ Forum ==> %2 Needs Powr-Packing >> c:\logs\IP_ERROR.log

:userbreak
  hilite BATCH PROCESSING ABORTED BY USER
  goto finished

:wrongparams
  ECHO ~ IP CALLED WITH INVALID PARAMETERS! >> c:\logs\IP_ERROR.log
  goto finished

:nospace
  echo ~ INSUFFICIENT DISK SPACE DURING IMPORT/EXPORT >> c:\logs\IP_ERROR.log
  goto finished

:fatal
  echo ~ FATAL ERROR IN IMPORT/EXPORT %1 >> c:\logs\IP_ERROR.log
  goto finished

:finished
```

This file actually is the work engine of Interpcb. It gets arguments from the event.bat file that tell it what area to import and then it does the work. The export batch file is much the same and it is pasted here for you to copy ==>

31.6.2 Export batch file

```
@echo off
; rem This File Exports UsPolNet Mail and leaves *.msg files in directories **
:start
  C:\IP_PN\ip /f:C:\ECHOMAIL\%1 /p:C:\POWRBBS\FORUM\%2  /l /e /w /max:200 /s %3
  if errorlevel 10 goto userbreak         rem User break
  if errorlevel 6 goto pack               rem Index has to be packed
  if errorlevel 5 goto finished           rem Message base locked
  if errorlevel 4 goto wrongparams        rem Invalid parameters
  if errorlevel 3 goto nospace            rem Insufficient disk space
  if errorlevel 2 goto fatal              rem Fatal error
  if errorlevel 1 goto finished           rem No messages
  if errorlevel 0 goto finished           rem Don't Pack

:pack
  rem Instructions for powrpacking?
  echo ~ Forum ==> %2 Needs Powr-Packing >> c:\logs\IP_ERROR.log

:userbreak
  hilite BATCH PROCESSING ABORTED BY USER
  goto finished
```

```
:wrongparams
  ECHO ~ IP CALLED WITH INVALID PARAMETERS! >> c:\logs\IP_ERROR.log
  goto finished

:nospace
  echo ~ INSUFFICIENT DISK SPACE DURING IMPORT/EXPORT >> c:\logs\IP_ERROR.log
  goto finished

:fatal
  echo ~ FATAL ERROR IN IMPORT/EXPORT %1 >> c:\logs\IP_ERROR.log
  goto finished

:finished
```

Not much difference no? Well it is a few command line changes that make the difference between the import and export batch file. Very easy to setup! Now you are wondering what the part of the Event.bat looks like that CALLS these batch files... well you should be! Here is a sample of mine for you to modify for your needs:

By the way! You will note that one of the first things that my event batch file does is echo an origin line to a file called origline in my PowrBBS forum directory. This is needed if you are using multiple zones. I am in three networks and as such I need to change my origin line for each net I process mail for. This line is echoed and then redirected by the ">" character so that it rewrites the file Origline.ip before each import or export. In that way I can change the originline that is put on the mail to be appropriate for each network.

Ok, here is a part of my event.bat that you want to know about:

```
rem        **********       UsPolNet       echos        only
**********************************
 cd \IP_PN

Rem Setup UsPolNet as the originating network for these echos!
Rem Create Origin Line for PolNet by Redirected echo String!
rem
 echo   People   Power  BBS  *914-878-3112*  NY   (30:505/0)
 > c:\powrbbs\forum\origline.ip
rem
REM
rem -- %1 = FIDONET DIRECTORY
rem -- %2 = PCBOARD MESSAGE FILENAME
rem -- %3 = PCBOARD AREA NUMBER
REM
rem -- Conferences to export to UsPolNET / leaves *.msg file in directory ***
REM
CALL pne  PN-CONGR  PN-CONGR   23
CALL pne  PN-CRIME  PN-CRIME   24
CALL pne  PN-CTRL   PN-CTRL    41
CALL pne  PN-ECONO  PN-ECONO   25
CALL pne  PN-ELECT  PN-ELECT   26
CALL pne  PN-ENVIR  PN-ENVIR   27
```

```
CALL pne  PN-FOREI  PN-FOREI   28
CALL pne  PN-JUDGE  PN-JUDGE   29
CALL pne  PN-LAW    PN-LAW     30
CALL pne  PN-LIBER  PN-LIBER   43
CALL pne  PN-LIMBA  PN-LIMBA   31
CALL pne  PN-MILIT  PN-MILIT   32
CALL pne  PN-NEWS   PN-NEWS    33
CALL pne  PN-PEROT  PN-PEROT   34
CALL pne  PN-PRES   PN-PRES    35
CALL pne  PN-RADIC  PN-RADIC   36
CALL pne  PN-RIGHT  PN-RIGHT   37
CALL pne  PN-SCAND  PN-SCAND   38
CALL pne  PN-SYSOP  PN-SYSOP   39
CALL pne  PN-TECH   PN-TECH    40
rem CALL pne  PN-RELEA  PN-RELEA   44
CALL PNE  PN-PORK   PN-PORK    45
Rem Flash message of activity on the screen
      echo ************************************
      echo *** PCBoard Export completed *********
      echo ************************************
-------------------------------------------------
```

So what did this do? Well, each time the batch file read a call command it started the PNE.bat file (UsPolNet export batch file) and it sent it the arguments after PNE. Those arguments tell the PNE.bat which directory, message base and area number to use in PowerBBS! Got it? I hope so, if not read the manuals and you will. OH note that I have remmed out the call for the second to last area. I did that because this is a READ ONLY forum. Users may NOT post message for export to the Network here. What this does is allow mail to come in but, if a user is silly enough to violate the rules and post a message here, well it never gets exported (this is a very nice conrol to have!).

Ok... We have gone over the three programs you will need to handle all fido echomail in PowerBBS. Now it is up to you to learn to use them. There are two other tiny programs that you will need to make PowerBBS work properly. These two are Dobbs.bat and a program called EXEBBS.exe

Front Door will *Create* the dobbs.bat file in your FD directory when it runs. In it it will have the callers Log on baud rate so that the BBS will know what baud rate to greet the caller with. Remember FD logged the caller on! NOT PowerBBS! FD must tell PowerBBS what it has negotiated with the callers modem. That is what dobbs.bat does. You DO NOT have to create it, FD does it each time it lets a caller in. The FILE EXEBBS.EXE must be in your FD directory for this to work. This file should be available at the PowerSupport BBS. Here is what I found in my dobbs.bat after the last caller signed off ==> EXEBBS 9600 2 484 <== This line starts the BBS and tells the BBS that the caller is logged on at 9600 baud and that he is on com2 (the rest of it...I have no idea (g)).

Ok that is the whole story in overview. Now it is up to you. I have pasted parts of my event.bat here for you to copy and use. I have deleted much as it is VERY LONG! What you need to know is here:

```
REM
rem change to the C drive ************************************************
C:
rem make the Front Door directory the active directory. *********************
cd\fd
rem LOOP is a label ******************************************************
```

```
:Loop
  C:
  cd\fd
rem execute Front Door ***************************************************
  FD
rem ******************************************************************
rem check the errorlevel Front Door exited with  *************************
rem ******************************************************************
   if errorlevel 255 goto inmail rem Front Door received Mail!
   if errorlevel 250 goto board  rem 38400 baud
   if errorlevel 249 goto board  rem 19200 baud
   if errorlevel 248 goto board  rem 14400 baud
   if errorlevel 247 goto board  rem 12000 baud
   if errorlevel 246 goto board  rem 9600 baud
   if errorlevel 245 goto board  rem 7200 baud
   if errorlevel 244 goto board  rem 4800 baud
   if errorlevel 243 goto board  rem 2400baud
   if errorlevel 242 goto board  rem 1275baud
   if errorlevel 241 goto board  rem 1200baud
   if errorlevel 240 goto board  rem 300 baud
   if errorlevel 230 goto local  rem User defined key in fd to generate an errorlevel of 230 for
LOCAL
   if errorlevel 229 goto outmail rem pack outgoing mail for nightly mail event!
   IF errorlevel 150 goto daily  rem External event errlevel for daily maint.
   if errorlevel 149 goto NLMANAGER  Rem external event for nodelist updating
   IF errorlevel 10 goto userbrk rem EXIT the BBS
   if errorlevel 4 goto fatal    rem  Front Door fatal error
   if errorlevel 3 goto dspace   rem Low disk space
   if errorlevel 1 goto Fatal    rem  Front Door fatal error
 goto Loop                       rem Front Door exited with an unknown error level. start over
rem Front Door creates a batch file called DoBBS.BAT. This will execute that file. Change to
rem LOCK.BAT if running a locked comm port. ************************************************
:board
rem   lock
rem dobbs.bat works better. It reports the REAL connect speed to the BBS!
dobbs.bat
rem ******************************************************************
rem run daily maintainence Routines! ***************************************
rem ******************************************************************
:Daily
rem
Rem ************  Create TopUser Hello5 Display  *************************
cd \powrbbs\topuser
topuser topuser.cfg
cd \powrbbs

*******************
    much deleted since you will create your own daily routines
    to suit your needs!
*******************

rem ******************************************************************
 C:
 cd\powrbbs
REM ******************************************************************
REM  this packs the messages in the LOCAL forums removing deleted messages
```

```
REM  this also deletes messages over 180 days old! (6 months!) ***********
REM ************************************************************************
 POWRPACK c:\POWRBBS\FORUM\NEWMSG DAYS:180
 POWRPACK c:\POWRBBS\FORUM\GOVMSG DAYS:180
 POWRPACK c:\POWRBBS\FORUM\CRIMSG DAYS:180
 POWRPACK c:\POWRBBS\FORUM\ENVMSG DAYS:180
 POWRPACK c:\POWRBBS\FORUM\WELMSG DAYS:180
 POWRPACK c:\POWRBBS\FORUM\WINMSG DAYS:180
rem
REM ************************************************************************
Rem End of Daily Maintainence Routines! *********************************
REm ************************************************************************
rem return to front door
goto loop
:outmail
Rem ****** Clear echos before creatig Message for export in am Poll! *****
rem ************************************************************************
REM ************************************************************************
REM *** OUTBOUND EHOMAIL PROCESSING - CLEAR ALL ECHOMAIL HOLDING AREAS *
REM ************************************************************************
 del c:\echomail\PN-CONGR\*.MSG
 del c:\echomail\PN-CRIME\*.MSG
 del c:\echomail\PN-CTRL\*.MSG
 del c:\echomail\PN-ECONO\*.MSG
 del c:\echomail\PN-ELECT\*.MSG
 del c:\echomail\PN-ENVIR\*.MSG
 del c:\echomail\PN-FOREI\*.MSG
 del c:\echomail\PN-JUDGE\*.MSG
 del c:\echomail\PN-LAW\*.MSG
 del c:\echomail\PN-MILIT\*.MSG
 del c:\echomail\PN-NEWS\*.MSG
 del c:\echomail\PN-PEROT\*.MSG
 del c:\echomail\PN-PRES\*.MSG
 del c:\echomail\PN-RADIC\*.MSG
 del c:\echomail\PN-RIGHT\*.MSG
 del c:\echomail\PN-SCAND\*.MSG
 del c:\echomail\PN-SYSOP\*.MSG
 del c:\echomail\PN-TECH\*.MSG
 del c:\echomail\PN-LIMBA\*.MSG
 del c:\echomail\PN-LIBER\*.MSG
 del c:\echomail\PN-RELEA\*.MSG
 del c:\echomail\PN-PORK\*.MSG
REM
Rem: ********  export Mail Event 2-12-93 ******************
Rem: ****************************************************
 rem  ********** UsPolNet echos only **********************************
 cd \IP_PN
Rem Setup UsPolNet as the originating network for these echos!
Rem Create Origin Line for PolNet by Redirected echo String!
 echo People Power BBS *914-878-3112* NY (30:505/0) > c:\powrbbs\forum\origline.ip
REM
rem -- %1 = FIDONET DIRECTORY
rem -- %2 = PCBOARD MESSAGE FILENAME
rem -- %3 = PCBOARD AREA NUMBER
REM
rem -- Conferences to export to UsPolNET / leaves *.msg file in directory ***
```

```
REM
CALL pne  PN-CONGR  PN-CONGR   23
CALL pne  PN-CRIME  PN-CRIME   24
CALL pne  PN-CTRL   PN-CTRL    41
CALL pne  PN-ECONO  PN-ECONO   25
CALL pne  PN-ELECT  PN-ELECT   26
CALL pne  PN-ENVIR  PN-ENVIR   27
CALL pne  PN-FOREI  PN-FOREI   28
CALL pne  PN-JUDGE  PN-JUDGE   29
CALL pne  PN-LAW    PN-LAW     30
CALL pne  PN-LIBER  PN-LIBER   43
CALL pne  PN-LIMBA  PN-LIMBA   31
CALL pne  PN-MILIT  PN-MILIT   32
CALL pne  PN-NEWS   PN-NEWS    33
CALL pne  PN-PEROT  PN-PEROT   34
CALL pne  PN-PRES   PN-PRES    35
CALL pne  PN-RADIC  PN-RADIC   36
CALL pne  PN-RIGHT  PN-RIGHT   37
CALL pne  PN-SCAND  PN-SCAND   38
CALL pne  PN-SYSOP  PN-SYSOP   39
CALL pne  PN-TECH   PN-TECH    40
rem CALL pne  PN-RELEA  PN-RELEA   44
CALL PNE  PN-PORK   PN-PORK    45
Rem Flash message of activity on the screen
      echo ***************************************
      echo *** PCBoard Export completed *********
      echo ***************************************
REM
rem Using Gecho 3/14/93/ !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
gecho scan
rem
REM **** END OF NIGHTLY EXPORT EVENT GO TO LOOP & START FD! **************
GOTO LOOP
:inmail
rem ************************************************************************
Rem clear out the message directories  Mail is in! *********************
rem ************************************************************************
REM ************************************************************************
REM *** BEGIN EHOMAIL PROCESSING - CLEAR ECHOMAIL HOLDING AREA ********
REM ************************************************************************
 del c:\echomail\PN-CONGR\*.MSG
 del c:\echomail\PN-CRIME\*.MSG
 del c:\echomail\PN-CTRL\*.MSG
 del c:\echomail\PN-ECONO\*.MSG
 del c:\echomail\PN-ELECT\*.MSG
 del c:\echomail\PN-ENVIR\*.MSG
 del c:\echomail\PN-FOREI\*.MSG
 del c:\echomail\PN-JUDGE\*.MSG
 del c:\echomail\PN-LAW\*.MSG
 del c:\echomail\PN-MILIT\*.MSG
 del c:\echomail\PN-NEWS\*.MSG
 del c:\echomail\PN-PEROT\*.MSG
 del c:\echomail\PN-PRES\*.MSG
 del c:\echomail\PN-RADIC\*.MSG
 del c:\echomail\PN-RIGHT\*.MSG
 del c:\echomail\PN-SCAND\*.MSG
```

```
 del c:\echomail\PN-SYSOP\*.MSG
 del c:\echomail\PN-TECH\*.MSG
 del c:\echomail\PN-LIMBA\*.MSG
 del c:\echomail\PN-LIBER\*.MSG
 del c:\echomail\PN-RELEA\*.MSG
 del c:\echomail\PN-PORK\*.MSG
REM
REM ************************************************************************
rem change to the Front Door directory and run Confmail to import ALL Mail
************************************************************************
rem ************************************************************************
REM *** NOW IMPORT ALL THE Uspolnet mail if present ***********************
C:
CD \fd
REM !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
GECHO TOSS
rem         !!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!
 cd\IP_PN
Rem Setup UsPolNet as the originating network for these echos!
Rem Create Origin Line for PolNet by Redirected echo String!
 echo People Power BBS *914-878-3112* NY (30:505/0) > c:\powrbbs\forum\origline.ip
REM
rem -- %1 = FIDONET DIRECTORY
rem -- %2 = PCBOARD MESSAGE FILENAME
rem -- %3 = PCBOARD AREA NUMBER
REM
rem -- Conferences to Import to the BBS! Uses Pni.bat for import only ******
REM
CALL pni  PN-CONGR  PN-CONGR   23
CALL pni  PN-CRIME  PN-CRIME   24
CALL pni  PN-CTRL   PN-CTRL    41
CALL pni  PN-ECONO  PN-ECONO   25
CALL pni  PN-ELECT  PN-ELECT   26
CALL pni  PN-ENVIR  PN-ENVIR   27
CALL pni  PN-FOREI  PN-FOREI   28
CALL pni  PN-JUDGE  PN-JUDGE   29
CALL pni  PN-LAW    PN-LAW     30
CALL pni  PN-LIBER  PN-LIBER   43
CALL pni  PN-LIMBA  PN-LIMBA   31
CALL pni  PN-MILIT  PN-MILIT   32
CALL pni  PN-NEWS   PN-NEWS    33
CALL pni  PN-PEROT  PN-PEROT   34
CALL pni  PN-PRES   PN-PRES    35
CALL pni  PN-RADIC  PN-RADIC   36
CALL pni  PN-RIGHT  PN-RIGHT   37
CALL pni  PN-SCAND  PN-SCAND   38
CALL pni  PN-SYSOP  PN-SYSOP   39
CALL pni  PN-TECH   PN-TECH    40
CALL PNI  PN-RELEA  PN-RELEA   44
CALL PNI  PN-PORK   PN-PORK    45
Rem Flash message of activity on the screen
      echo ***************************************
      echo *** PCBoard Import completed *********
      echo ***************************************
REM    Powerpack the newly imported areas!
 powrpack c:\powrbbs\forum\PN-CONGR TOTAL=300
```

```
 powrpack c:\powrbbs\forum\PN-CRIME TOTAL=300
 powrpack c:\powrbbs\forum\PN-CTRL TOTAL=300
 powrpack c:\powrbbs\forum\PN-ECONO TOTAL=300
 powrpack c:\powrbbs\forum\PN-ELECT TOTAL=300
 powrpack c:\powrbbs\forum\PN-ENVIR TOTAL=300
 powrpack c:\powrbbs\forum\PN-FOREI TOTAL=300
 powrpack c:\powrbbs\forum\PN-JUDGE TOTAL=300
 powrpack c:\powrbbs\forum\PN-LAW TOTAL=300
 powrpack c:\powrbbs\forum\PN-MILIT TOTAL=300
 powrpack c:\powrbbs\forum\PN-NEWS TOTAL=300
 powrpack c:\powrbbs\forum\PN-PEROT TOTAL=300
 powrpack c:\powrbbs\forum\PN-PRES TOTAL=300
 powrpack c:\powrbbs\forum\PN-RADIC TOTAL=300
 powrpack c:\powrbbs\forum\PN-RIGHT TOTAL=300
 powrpack c:\powrbbs\forum\PN-SCAND TOTAL=300
 powrpack c:\powrbbs\forum\PN-SYSOP TOTAL=300
 powrpack c:\powrbbs\forum\PN-TECH TOTAL=300
 powrpack c:\powrbbs\forum\PN-LIMBA TOTAL=300
 powrpack c:\powrbbs\forum\PN-LIBER TOTAL=200
 powrpack c:\powrbbs\forum\PN-RELEA TOTAL=300
REM POWRPACK C:\POWRBBS\FORUM\PN-PORK TOTAL=300
Rem ************************************************************************
rem All done! start over and load up Front Door *************************
rem ************************************************************************
rem
 GOTO LOOP

:Local
 local
:userbrk
  rem--- Userbreak
cls
echo User Break
 goto done
PAUSE
 rem--- Disk space error
:dspace
 Cls
 echo                  FrontDoor reported insufficient disk space
 goto hang
 rem--- Fatal condition
:fatal
 Cls
 echo                  FATAL error reported by frontDoor
 goto hang
:done
 stop
:hang
Echo ***FATAL ERROR***
@echo off
:lockit
goto lockit
```

Ok that is a sample of my event.bat that will help you get setup quite easily.

Read the documents. That will help you lots! IF you cannot figure something out, that is what the support BBS is for. But, you will waste hours of time asking questions and waiting for answers when everything you need to know is here in the program documents. To use PowrBBS well, you must understand what you are doing. This document provides an overview of setting up for Fido so that can understand what you are doing!

Now a few more finishing details:

31.7 SETTING UP POWERBBS FOR FIDO AND SOME FINAL TOUCHES

Once you have all three programs we have talked about, setup completely make sure you have PowerBBS setup to handle echo mail. To do this run the Config Program for PowerBBS and look for Modem Setup. Open this menu and turn off everything in the Event Area! You will not be having the BBS run the event (your batch file!) Instead Front Door will be running the event.bat. The only item here to be completed is the path to the event.bat. This should read something like c:\powrbbs\event.bat and that is all! Next go to the area titled security levels and select the box that lets you run Front Door Mode! The temporary file to read the baud rate from should also be set as c:\powrbbs\Quit. Finally, read your PowerbBS manual area about setting up EchoMail forums and do that in PowerBBS Config. Write down the *EXACT* path and filenames for ALL your message forums as you will be needing this to setup InterPcb (or PowerEcho).

When your mail tosser imports or exports you echomail, it temporarily puts it in a holding area that You should now create. This holding area is used by InterPcb (or PowerEcho) to import the mail into or out of the BBS. After each mail event, all files in this area are deleted, they are temporary. For this purpose create mail directories now. I suggest you create them as subdirectories of a single root directory called EchoMail.

Here is how it should look

C:\ECHOMAIL\GAMES
C:\ECHOMAIL\JOKES
C:\ECHOMAIL\WINDOWS

Use one directory for each PowerBBS forum that will be linked to a network echomail conference. Do NOT have two forums sharing the same area as mail will get crosslined causing lots of confusion!

You will also need to create two more batch files. One is for Local log ons by YOU the SYSOP and the other is for exiting the BBS.

Here they are:

Filename : C:\FD\LOCAL.BAT

EXEBBS LOCAL <== That is the whole batch file!

Filename : C:\FD\STOP.BAT

EXEBBS EXIT <=== That is the whole batch File!

Ok! Now go to it, do it and Join the world of EchoMail!

32.0 Power*DoorSys v2.5

Power*DoorSys is a Door conversion program. The program is located in your \ POWRBBS directory as PDOORSYS.EXE. Power*DoorSys is Copyright (c) 1991,92,93 ProtoWrxs! Software. It was written by Stephen W. Nolen, ss part of the PowerBBS package. Power*DoorSys is comparable to CONVDOOR.EXE, but is more advanced in features. Email Stephen Nolen on the Support BBS if you have any questions.

This program can:

- o Create a Fifth-Two Line DOOR.SYS file
- o Create a DORINFOx.DEF file
- o Create a CALLINFO.BBS file
- o Writeback option to update USER record
  (such as for a cd download door)

32.1 OVERVIEW

Power*DoorSys is used to generate a true fifty-two (52) line DOOR.SYS file, DORINFOx.DEF and/or CALLINFO.BBS file(s) from the PowerBBS data files. Power*DoorSys, hereafter called PDOORSYS, reads the USERINFO.BBS, USERS., SECLEVEL and POWRINFO.BBS files and builds the proper door interface file as configured. MOST files that are used as input are opened in READ only mode and SHARED, so there should be no danger of PDOORSYS damaging any files and PDOORSYS should work properly on multi-node systems. PDOORSYS also provides a means to update the USERs file with changes made during the door program for some items through the writeback option. If you use the writeback [/W] option, PDoorSys WILL write the data back to your USERs file so be forewarned.

32.2 OPERATION

PDOORSYS requires a .CFG configuration file to function properly. The config file tells PDOORSYS what type of door interface file to write as well as where to find the POWRBBS.DAT file from which it then locates the required files for this node. The config file can be located anywhere on your system as long as you provide the complete path/filename of the config file on the command line when calling PDOORSYS. A different .CFG file should be provided for each node that you are running since different POWRBBS.DAT files are used. The following is the text from the included PDOORSYS.CFG file with descriptions of each line
required. The config file format is as follows:

```
I:\DOOR.SYS 2=I:\DORINFO1.DEF     <- Path/file of DOOR.SYS to make
POWERB60482099999                 <- Registration #, DO NOT CHANGE THIS #!
C:\POWRBBS\POWRBBS.DAT            <- The POWRBBS.DAT for node
C:\POWRBBS\PDOORSYS.ERR           <- The path/filename of the errors
32                                <- Maximum Daily Files Available
```

The first line provides the ability to write a DOOR.SYS, DORINFOx.DEF, AND a CALLINFO.BBS file all in one process. To do this you MUST tell PDoorSys which file it is to create by using the 1=, 2=, 3= prefixes on the interface files.

The codes are as follows:
1= 52 Line DOOR.SYS format
2= Standard DORINFOx.DEF file where x is node number
3= CALLINFO.BBS format

The program will default to creating a door.sys file if you do NOT include this prefix EVEN if you

provide a DORINFOx.DEF filename! You can create all available interface files by using this as the first line in the config file;

1=I:\DOOR.SYS 2=I:\DORINFO1.DEF 3=I:\CALLINFO.BBS
or
I:\DOOR.SYS 2=I:\DORINFO1.DEF 3=I:\CALLINFO.BBS

The maximum daily files limit field is used if PDOORSYS is being used for a file up/download door such as a CDROM door. If this entry is not entered then PDOORSYS will use the maximum figure of 9999 for the field. This figure is not actually a daily number of files limit since PowerBBS does NOT store the daily NUMBER of files downloaded. It is actually a limit that will be imposed for this particular door session. If you are using PDOORSYS to interface with a file download door and the door uses file up/download ratios, you will most likely HAVE to put a value greater than zero here or the door will say the user has reached his ratio limit. This corresponds to the proper entry as described in the DOORSYS.TXT, or CALLINFO.TXT files as mentioned below. If you use the /R option, this value may not be used and a zero used instead if the user fails the ratio checking. Please note that the DORINFOx.DEF file format does not provide for this type of information in it's structure.

PDOORSYS will retrieve the appropriate information from each of the required files for the DOOR interface file(s). For more information about the DOOR.SYS, DORINFOx.DEF or CALLINFO.BBS formats and where PDOORSYS get's the items for the file, see the included DOORSYS.TXT, DORINFOx.TXT or CALLINFO.TXT file(s).

The proper format for calling PDOORSYS is as follows:

PDOORSYS <drive/path/filename of config> [/W] [/Q] [/R]

The /W is the optional writeback parameter and may require an additional code appended to it to tell PDoorSys which interface file to write back from. For more information on the /W switch just keep on reading. The /Q is the optional quite mode switch.

32.3 QUITE MODE

The quite mode parameter is a simple switch to keep PDOORSYS from printing it's activity on the screen. Please note, however, the NONREGISTERED notice will still appear on the screen if you have not registered PDOORSYS. All other screen output will not be printed.

32.4 KILOBYTE READ / WRITES ARE SUPPORTED

PDOORSYS reads and writes the kilobyte values of kilobytes downloaded today, maximum daily kilobyte limit and the kilobytes uploaded and downloaded as shown in the accompanying DOORSYS.TXT and CALLINFO.TXT file(s). This should make the program FULLY functional with ANY CDROM door and/or file up/download door. Please note that the DORINFOx.DEF file format does NOT support this function.

32.5 WRITEBACK OPTION

If you run PDOORSYS with the optional /W switch, the program will READ the CURRENT data in the DOOR.SYS, DORINFOx.DEF or CALLINFO.BBS file and update the USERs file with any changes that have occurred in the user SECURITY LEVEL, EXPIRATION DATE, number of FILES uploaded and downloaded and KILOBYTES uploaded and downloaded and kilobytes downloaded TODAY or applicable fields. Not all interface files support all of these options so see the *.TXT files for more information.

DO NOT USE THIS OPTION WHEN TRYING TO CREATE A DOOR.SYS, DORINFOx.DEF OR

CALLINFO.BBS FILE... THIS IS ONLY USED TO READ AN EXISTING INTERFACE FILE AND UPDATE THE USERS FILE DATA. YOU WILL NOT GET WHAT YOU WANT USING THIS SWITCH TO CREATE A NEW FILE!!!!!

To properly use the writebackup option, you MUST append the proper door interface file format number to the /W... for example to write back data from the CALLINFO.BBS file, use /W3. Using /W1 or /W will use the DOOR.SYS file and /W2 the DORINFOx.DEF file. The DORINFOx.DEF file ONLY supports write backs for the users access level and as such is quite limited to it's functionality unless you have a call-back door that supports this format.

The writeback option is useful if you have any door type of programs that fully support the door interface format. It can be used to update your USERs file after people have used a CDROM door that fully supports the DOOR.SYS, etc format. This way, you can still maintain a file ratio for non-supporting users but can provide the special features of the CDROM door if you wish. You could also use this feature for any programs that would provide for credit
card registrations or call back verifiers that would update the users' level or expiration date. Remember, however, that the door program must FULLY support the DOOR.SYS or other door interface format AND write any changes to it.

PDOORSYS compares the door interface files and the USERs files user name and user record number when applicable. If either one of these are not the same, PDOORSYS will NOT write any changes back. It will display an error notice and show you the differences. This should keep the program from accidentally writing back data back to the USERs file.

EXAMPLE OF USING THE WRITEBACK OPTION

The following is an example batch file that uses the writeback option of PDOORSYS. This is how the MegaROM door for CDROMs would work.

```
@ECHO OFF
REM -------------------------------------------------------------
REM MegaDOOR.BAT - Generate DOOR.SYS file and load MegaROM Door
REM This is called via a .POW file as MEGADOOR |NODE#|
REM The %1 parameter holds the node number that is calling.
REM -------------------------------------------------------------

REM Generate the required DOOR.SYS file
C:\PowrBBS\PDoorSys C:\PowrBBS\PDoorSy%1.CFG

REM Run the MegaROM Door Program
G:
CD \MegaDOOR
MegaDOOR.EXE %1

REM Write Back any downloaded files and/or Kbytes
C:
CD \PowrBBS
C:\PowrBBS\PDoorSys C:\PowrBBS\PDoorSy%1.CFG /W1

REM -------------------------------------------------------------
REM EOF MegaDOOR.BAT
```

32.6 RATIO CHECKING

The ratio checking option will provide a way to limit users that you have setup to have file and/or byte limits for downloading files in PowerBBS with CDROM or file access doors that do NOT

support this option. PDoorSys will check the users file and byte ratios against the settings used in the POWRBBS.DAT file or the SECLEVEL file if you have set special ratios for each access level. If the user's level falls below the bypass security level, a check is done against the ratio settings in the SECLEVEL file. If the user does not pass the ratio test, the FILE and BYTE LIMITS in the DOOR.SYS, etc. file are set to zero. This should keep most CDROM and download doors from allowing the user to make any downloads. This is a optional function and has no effect if the /W option is being used.

32.7 ERROR TRAPPING

Starting with v2.0, extended error trapping and error reduction routines have been added. If PDOORSYS finds an entry in the POWRBBS.DAT file that does NOT have the full path, it assumes the full path that the file 'should' be in for a standard PowrBBS installation. This should end the file and path errors that haunted early PDOORSYS users. If the system cannot find a file, it should display the files it is looking for and ask you to validate that these paths/files are valid and available.

32.8 DISTRIBUTION

Power*DoorSys is COPYRIGHTED by ProtoWrxs! Software and Stephen W. Nolen and all rights are reserved. This program is being distributed as SHAREWARE software and if available on a trial usage basic. If after using this product for time period not to exceed 30 days, you must register it. Registration provides a serial number to include in the config file that will remove the display given to the users when the door is closed. Although the registration fee of $5.00 is quite small, every little bit counts as they say and these dollars help us to continue to develop our various applications. Just make the check or money order payable to STEPHEN W. NOLEN. Use the included PDOORSYS.REG form for your order. Your serial number will be valid for all future releases of PDOORSYS of which the latest version can be found on the ProtoBoard! BBS. This version PDOORSYS CANNOT be distributed separate from the PowerBBS Software.

33.0 High Speed Communications

The UART (universal asynchronous receiver transmitter) is an integrated circuit chip that handles asynchronous communications in your computer. When you have a high speed modem under Windows, you need to take a look at the type of UART chip your com port card is using (or your internal modem). Many machines still use either the 8250 or the 16450 UART chip. The 8250 and 16450 UART chips used in many computers isn't well suited for a multitasking environment like Windows. Because they have buffers only holding one character, if PowerBBS doesn't take the character from the buffer before another character is received, an overrun error may occur. This is very possible when you consider high-speed communications in conjunction with many applications running on one computer.

To improve performance you need to replace the older chip with a 16550AFN UART chip, which includes a first in, first out (FIFO) buffering scheme. This chip can store up to 16 incoming characters, allowing the chip to handle incoming characters, even when the computer's CPU is busy handling other chores. Windows v3.1 supports the 16550 chip, to provide high performance. Sometimes you can replace your older chip. If you can't, you'll probably want to pick up a serial card with the 16550 already installed.

33.1 Hayes ESP Communications Accelerator for Windows

The Hayes ESP Communications Accelerator for Windows is a full length ISA serial port card. It contains two 16550A-type UART chips as well as a dedicated

microprocessor to increase the performance of your system. By installing the Windows drivers that come with the ESP card, PowerBBS for Windows will run in DMA Enhanced Mode and take full advantage of the microprocessor power contained on the ESP card. This not only elimates the problems of data loss due to UART overruns, but dramatically reduces the number of interrupts which must be processed. PowerBBS's performance will be boosted, as the main CPU has more clock time. Rather than the small 16-byte FIFOs in the 16550As, ESP provides full 1024-byte FIFOs for both transmitted and received data. Direct-memory-access (DMA) transfers of data between ESP and main system memory dramatically reduce the amount of processing overhead required by as much as 90%!

Whereas the standard Windows serial driver can suffer data loss at speeds aslow as 9,600 bit/s, with Hayes ESP and the ESP driver for Windows, full-duplex communications as fast as 57,600 bit/s can be accomplished with complete data integrity flow and greatly increased availability of CPU processing power to other applications. The implementation of block mode transfers in the Windows 3.1 kernel and the use of this mode by Hayes ESP Driver for Windows 3.1 considerably improves performance of the driver over earlier versions and over the standard Windows serial driver. The Hayes driver supports both ESP ports and standard serial ports, for systems which support a combination of both.

33.1.1 Hayes ESP SysOp Program

Hayes provides a well received SysOp program. The ESP has been tested on the support BBS, and is 100% compatible with PowerBBS for Windows. It was purchased for only $99 (this price may and will change) under the Hayes SysOp program! Call 800-874-2937 for the Hayes Support BBS. PowerBBS has its own support BBS on this BBS! Russell Frey frequents the BBS, so feel free to leave a message!

33.2 TurboCom

TurboCom is a replacement COMM.DRV for Windows 3.1. You must have a 16550 for this product to be of any benefit. Windows Sources (Feb. 1993) says "TurboCom is the way Microsoft should have implemented 16550 support".

The Windows 3.1 comm drivers support the 16550 in a limited and relatively inflexible way. As a result, users gain only a fraction of the benefits the 16550 can provide. TurboCom exploints the 16550 fully, and allows users to customize comm performance.

The Windows comm drivers support the 16550's Receive FIFO, but hard-code the interrupt trigger level at 14. This means that the receive FIFO must contain 14 characters before the Data Available interrupt is issued. As a result, the processor has only two character times to empty the FIFO before it overflows.

TurboCom offers full support for the transmit AND receive FIFOs. TurboCom lets you change the interrupt trigger level (it defaults to 8). TurboComs main advantage to PowerBBS SysOps running DOS doors, is its DOS communications support. It allows DOS applications (unlike Windows 3.1 COMM.DRV) to utilize the 16550 UART. As a result your DOS communications programs are greatly improved when you use TurboCom.

Please contact TurboCom for the latest information on their drivers.

TurboCom
Bio-Engineering Research Labs
180 Beacon Hill Ln.
Ashland, OR 97520

Sales and Support:	503-482-2744
BBS:	503-482-2633
List Price:	$47.50

TurboCom is FULLY compatible with PowerBBS for Windows. You can also contact the PowerBBS support BBS and leave me any questions you might have on this product. See TurboCom v2, for a major enhancing product (we plan on making this product available to you direct from us).

33.3 PC/2e Intelligent (DigiBoard)
33.4 T/Port (Telcor Systems Corp)

Both DigiBoard and Multi-Tech offer two port and EIGHT-PORT versions of their serial port cards for Windows. They supply their own COMM.DRV, to use their cards (another words you use this replacement COMM.DRV. You cannot use TurboCom's at the same time). With the EIGHT-PORT products it is possible to run EIGHT lines on one computer using PowerBBS. You can contact DigiBoard at 612-943-9020; Telcor Systems Corp at 508-653-3995.

Note that these products have not been tested by us, as of this writing.

33.5 TurboCom v2 (MultiPort / Up to NINE Com Ports)

TurboCom/2+ drivers permit the use of up to NINE com ports. Includes support for IRQ sharing (MULTIPORT CARDS). As of August 1, 1993, this product is in BETA Testing. Check the Support BBS for the latest information/availability of this product.

33.6 Using a FOSSIL Driver Under Windows

If you are using a FOSSIL driver (such as BNU which is available on the Support BBS), do not load it in your AUTOEXEC.BAT or CONFIG.SYS. Instead load the FOSSIL driver in the actual DOS window that it is used (meaning in the .BAT file you are running, it should be the first line to run the FOSSIL. You should terminate the FOSSIL at the end of the .BAT file).

34.0 Running DOS Remotely / Remote Control

Available after pressing 1 for the sysops menu, is the D)os Utilities, D)rop to DOS capability. What this function actually does is runs your C:\POWRBBS\REMOTE.BAT file. Properly configured, and you as a sysop can drop to DOS and perform functions remotely (or allow you to permit someone you trust to do this!).

The sample REMOTE.BAT that comes with PowerBBS is as follows:

```
convdoor c:\powrbbs\userinfo.bbs c:\powrbbs\data\users c:\doorway\door.sys
cd\doorway
Doorway SYS /B:MZ /V:D /C:DOS
```

Line #1: Creates a DOOR.SYS file.
Line #2: Change to the directory containing Doorway
Line #3: Runs Doorway, permitting you to run DOS remotely

34.1 Doorway

Doorway is the program that allows remote control of a computer via a

modem. It permits the redirection of COMMAND.COM for your remote use. It can also redirect normal DOS applications. It is a shareware program that is (c) by Marshall Dudley. A copy of the shareware version may be downloaded from the Support BBS. YOU NEED DOORWAY IF YOU WANT TO USE DOS REMOTELY!

35.0 PowerSource - Source Code Package

If you purchase the PROFESSIONAL version of PowerBBS, you will also receive the PowerSource disk. PowerSource contains the actual coded objects to the BBS, along with the main BBS source code. It is VERY easy to create your own BBS function, by adding to the main code. The main source code is over 3000 lines. You do not get the source code to the entire BBS (You only get the .TPW files, providing a SDK kit for you). But the entire main BBS code POWRBBS.PAS is included (This file is over 80K in size!) This main code includes all the code for answering the phone line, local logons, menu structure, and more. Here are the files on the disk:

Note that although the license doesn't permit you to distribute enhanced PowerBBS's, you MAY create a door application (by using the DOOR.PAS file), and distribute it to other PowerBBS SysOps royalty free.

The following files are contained, but only include the INTERFACE part of the code; NOT the IMPLEMENTATION:

DEFINES INC
FILEIO PAS
POWRSHEL PAS
POWRFUNC PAS
CALLBACK PAS
POWRUTIL PAS
POWRCOLR PAS
POWRMAIL PAS
PCOMM PAS
POWRINFO PAS
POWRMENU PAS

The following files are complete, with ALL SOURCE CODE:

DOOR.PAS	Example DOOR program. Create an external DOOR application that all PowerBBS sysops may use and that you may distribute!
WINCRT2 PAS;	Modified WINCRT.PAS for use with PowerBBS
POWRBBS PAS;	As explaineds above, the main source. The action happens here!

The following files are provided as compiled units:

WINCRT2 TPW
FILEIO TPW
POWRUTIL TPW
POWRSHEL TPW
POWRCOLR TPW
POWRINFO TPW
PCOMM TPW
POWRFUNC TPW
POWRMAIL TPW
POWRMENU TPW

POWRBBS2 RES

Please look over all the files. For modifying the BBS, you will be changing the POWRBBS.PAS file (this is the only file you can modify). Place all these files in one directory, such as C:\POWRCODE. Next load up POWRBBS.PAS in Borland Pascal, edit, compile, run.

It is also possible to create a DOOR application using the compiled units, and you create your own main .PAS file.

35.1 PowerSource License

By using PowerSource, you agree to the following license agreement. If you do not agree, please DESTROY your PowerSource disk at once!

As by outlining the information on the product, this is the only unit you can actually customize. If you upgrade the WINCRT2.PAS, we will be happy to work with you on updating it.

Any reported bug that is reproducible will be fixed promptly.

Thank you for purchasing the PowerBBS Development Kit!

36.0 File Enclosures

PowerBBS users may now include a FILE in a message. This permits for the easiest way for users to restrict files to each other. Be aware that when the FILE

ENCLOSURE option is used, the file is saved in your RESTRICT directory (Default is C:\POWRBBS\RESTRICT\). PowerBBS provides the feature for local transfers for a file enclosure so the SysOp may take advantage of this feature.

37.0 Teleconferencing

PowerBBS's Teleconferencing features allows your online users to chat with each other. PowerBBS support of Teleconferencing, means that it is not limited to 2 users chatting. 50 users can be in a teleconference at once and all converse with each other at the same time. It provides a powerful median to hold meetings, and other such group gatherings.

To support Teleconferencing, you should first have a multi-line PowerBBS set up (Note that you should not use Node 0 on any node; PowerBBS will not let you enter node chat with Node 0).

In PowerBBS use the WHO command to enter Node Chat. The following screen will come up:

```
#       Caller                   Baud      Status                 City
---     ------------------------ --------- ---------------------  ------------------------
1                                               No Caller this Node
2       HANK FREY                38400 Available for Chat    HICKSVILLE, NY
3        RUSSELL FREY               LOCAL      Available for Chat    HICKSVILLE, NY

Enter [G]roup or [C]hannel Chat, [ENTER=Quit]:
```

You have the choice here of Group or Channel Chat (You can change that upon entering Chat mode. Group is considered Channel #0).

We enter G for group, and are now in Group Chat.

```
RUSSELL       > RUSSELL joined Group Chat at 00:59
                ÚÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄ¿
                ³  CHAT MODE Help Screen ³
                ÀÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÄÙ

/?            This HELP Screen
/CHANNEL      Tune to a different channel
/ID           Send a message to another line.
              Example:  /ID 2, Sending this to only node #2
/PAGE         ** PAGE ANOTHER PERSON **
/SETLIST      Set between a LISTED and UNLISTED channel
/TIME                 Displays your time information
/WHO          Displays current node status
/QU                   Quit CHAT mode, return to MAIN MENU
RUSSELL       >
```

The above commands permit us to perform our tasks of group chat. After paging HANK FREY, he soon appears and we talk:

```
HANK joined Group Chat at 01:01
HANK          > Hey Russ!
RUSSELL       > /WHO
```

```
#               Caller          Baud        Status                  City
---     ------------------------    --------- --------------------  -------------------------
1                                               No Caller this Node
2       HANK FREY           38400 Chatting with Group           HICKSVILLE, NY
3        RUSSELL FREY           LOCAL       Chatting with Group          HICKSVILLE,
NY

RUSSELL       > How are you doing tonight?
HANK          > Not bad..  Picked up the latest version of
HANK          > PowerBBS today.  Nice Job.
```

Next users can switch to a private chat tuning to a channel:

```
RUSSELL       > /SETLIST
Do you want a PRIVATE UNLISTED Chat (Y=Ja /N=Nein)? Ja

RUSSELL       > /CHANNEL
Enter CHANNEL # to TUNE to [0..65535]:  100
You are now TUNED to CHANNEL # 100

RUSSELL       > /WHO

#               Caller          Baud        Status                  City
---     ------------------------    --------- --------------------  -------------------------
1                                               No Caller this Node
2       HANK FREY           38400 Channel ?? Chat       HICKSVILLE, NY
3        RUSSELL FREY           LOCAL       Channel ?? Chat       HICKSVILLE, NY


RUSSELL       > You There!
HANK          > Of course.  What took you so long?
HANK          > Gotta go, phone.
HANK quit Group Chat at 01:04
RUSSELL       > /QU
RUSSELL       > RUSSELL quit Group Chat at 01:04
Press [RETURN]:
```

50.0 Credits

Any reference to products or trademarks in this document is in sole reference to the individual products.

The following products and names are the copyrighted material and or trademarks of their copyright and or trademark holds respectively.

PowerBBS	Russell E. Frey
PowerBBS File Manager	Gerral Reeves
DSZ	Omen Technology Inc.
MS-DOS;Windows	Microsoft Corporation
Hayes	Hayes Microcomputer Products, Inc
IBM PC, XT, AT, PC-DOS	International Business Machines Corporation
Telix	deltaComm Development
Doorway	Marshall Dudley

Borland Pascal Borland International Inc.

Special thanks to:

Glen, for giving me the initial introduction to bbsing (even if it was on an APPLE][+. Sorry guys, no port is being prepared for that!)

Stace, for assuring me that I wasn't crazy in all the hours I've spent on this project.

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Stephen Nolen (Author of PDOOR*SYS)

And of course I'd like to thank all the PowerBBS SysOps who have helped this program grow through many years of work!