

MAX's BBS

COLLABORATORS

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Chapter 1

MAX's BBS

1.1 main

ABOUT

```
*****  
*                                     *  
*               MAX's BBS             *  
*                                     *  
*      Version 1.00-1.54  14-Jul-91   *  
*                                     *  
*      Created by Anthony Barrett    *  
*                                     *  
*****
```

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Converted to GUIDE FORMAT by Greg Fitch

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1.10 INTRODUCTION

Thank you for using M A X'S BBS! This program is the result of three year's worth of programming. It was developed due to the lack of true Amiga BBS programs ie. not ported from the IBM. M A X's BBS is Copyright © 1992 by Anthony Barrett. This program is now Public Domain and may be freely distributed.

..... M A X's BBS SHALL NOT BE USED TO SPREAD COPYRIGHT MATERIAL OR SOFTWARE. NO RESPONSIBILITY IS ACCEPTED FOR DAMAGES ARISING FROM THE USE OF THIS PROGRAM.

BBS stands for Bulletin Board Service. BBS's became popular when the first 300 bps modem became available at an affordable price. The first BBS I called was "The Omen" and I was an enthusiast from then on. I had a Dick Smith System-80 and a Dick Smith 300 bps manual modem. I think "The Omen" BBS is still running today. The BBS software back then was very basic with only the XModem checksum protocol available for file transfers. Since then, BBS software has become more advanced with the introduction of full screen editors, The ZModem file transfer protocol and FidoNet echo mail linking all the BBS systems together.

This program was written for the Amiga, and makes use of the Amiga's graphical user interface called "Intuition". Some Amiga BBS programs which were ported from the IBM environment are menu driven, making them slow and awkward to use. The Amiga's audio channels are used to play sampled sounds for the Bell and the BBS menu function 3 - Chat call, so experiment and have some fun trying different sound samples.

M A X's BBS has a built in FidoNet front end, message importer (or tosser) and FidoNet dialer. M A X's BBS can be easily configured as a FidoNet Hub because of it's easy to use "FidoNet mail distribution" window. Before M A X's BBS, BBS programs relied on separate FidoNet front end programs and message tosser programs to set up a FidoNet system, making them slow and difficult to configure.

M A X's BBS has a custom print routine allowing speeds of over 9600 bps when printing/sending menus and text. The BBS program called "BBS-PC!" could connect at 9600 bps but the text printing speed would limit the sending of text to just over 2400 bps. The faster speed is achieved by printing a line at a time then sending that line to the serial port, rather than a print character then send character method (this will become noticeable when using speeds 1200 bps or less).

M A X's BBS can be completely customized! Not only can you make your own menus but you can edit and change all the BBS text and colours using the built in text editor. You could even translate the English text into another language. You can insert the time, date or any one of the forty seven auto inserts anywhere in your text! You can hide all or parts of any text to users by specifying the minimum access level.

M A X's BBS is a true ANSI BBS, ie. all the ANSI colour codes are supported and any interruptions to the printing/sending of menus (hot keys) and text files will force an ANSI colour code (line 36) before the text is printed/sent. When the BBS sends a message such as "Press <RETURN> to continue" (line 29) or warnings like "You have x mins remaining..." (line 23) while printing a text file, the foreground and background colour will be saved and restored before and after that message. This will stop any colour changes in text due to that BBS message.

M A X's BBS is one single executable file. No messy separate configuration or FidoNet programs to worry about, it is all done with the one program! A powerful online user editor lets the local Sysop edit any part of the current online user, including the user's name! A message optimizer will remove all unused space in the message base files, this will save you precious disk space!

M A X's BBS supports the following file transfer protocols:

- XModem
- XModem CRC
- XModem 1K
- YModem (batch)
- YModem-g
- ZModem

All protocols have been written as close to specification as possible. The ZModem protocol is the latest revision available at the time of this release.

M A X's BBS has been written in Assembler. Not only does this make it run faster but also makes the program size very small (about 173K bytes). Utilities and support programs are being written for M A X's BBS and are available from the "M A X's BBS support files" section on my BBS (see "Reporting bugs and ordering") or from the Author.

1.11 INSTALLATION

M A X's BBS comes on a standard AmigaDOS formatted disk.

*** MAKE A BACKUP NOW BEFORE YOU GO ANY FURTHER! ***

There is no copy protection (please read the first paragraph if you have not already), therefore any copy program will be adequate.

M A X's BBS should run on a standard 512k byte Amiga but will limit the amount of multi-tasking you can do while the BBS is running in the background. Of course the more memory the better. The optimize message function is memory limited (see "Pull down menu functions").

It is possible to run the BBS as it is, using only one floppy drive, but the free space will limit the message base and file library (if any). Therefore it is recommended that it be installed onto a hard

drive. If you do not have a hard drive the BBS will run fine with two floppy drives. Use the first drive to hold the boot and main program disk, and use the second drive for the message base and file library. Of course a practical file library would not be possible on a floppy drive system but should be adequate for a good sized message base (see "Configuring the BBS"). A floppy disk cache program would also be recommended to speed up the disk operations.

Here are some misc updates

Changes from version 1.00 to version 1.10:

~~~~~

\* A new M A X's BBS icon has been drawn to replace the old temporary icon. Those who are connected to MAXsNet will already have it.

\* A number of optimizations have been made to window redraw and some other areas in the BBS.

\* The "Clock" window has been moved to the left to reveal the screen depth gadget and to cover up my name :-).

\* The BBS will now remember the iconified window position which is stored in the "MAXsBBS.config" file. Move the iconified window to where you would like it to appear and then use "Save all".

Changes from version 1.16 to version 1.18:

~~~~~

* The bell delay has been shortened.

* Due to the fact that the Amiga's keyboard can change depending on the nationally, I have added the text "K/B map starts here ->" and "<- Ends here" around the keyboard map in the executable program. To edit the keyboard map use a file zapper (eg. "Hex") to edit the characters as required. Do a search for the string "K/B map" to find the start of the keyboard map in the program. The keyboard map contains the unshifted keys in the first half and the shifted keys in the second half. Edit with care. I know this is crude, but it will do for now.

Changes from version 1.18 to version 1.20:

~~~~~

Note: After using "MAXsCon120" to convert your "Config.data" file you will notice that the BBS address and the iconify window position have been set to zero. Please change these as required.

\* M A X's BBS can now be used with multi-lines. The program has been re-written to allow for shared index memory and shared data files. Multiple nodes have been tested from local with no problems. A real multi-line system should work but has not been tested yet, so let me how it goes. I recommend that if you are going to run multi-lines that you use an Amiga faster than the stock standard 7 Meg 68000.

Changes from version 1.20 to version 1.21:

~~~~~

* The clock window position is now stored in the config file. To save the clock position just select "Save all" from the "Config" pull down menu.

Changes from version 1.21 to version 1.30:

~~~~~

This version of M A X's is a significant improvement on all previous versions. With the new implementation of a user index and optimized sending routines I think it is safe to claim that M A X's BBS is the fastest BBS program available on the Amiga.

\* The BBS node number now also appears in the BBS screen title.

\* The BBS will now log all remote user logins regardless of their access level and will log all local user logins who are not Almighty Sysops (access 10000).

\* The "File section counts error" requester now gives you the option to fix the error. This was requested by Edward Lawford and his experimental file utility programs :-).

\* Merry Christmas!

Changes from version 1.30 to version 1.31:

~~~~~

* M A X's BBS is now 9K bytes smaller! I managed to do this by moving parts of the program around to maximize pc relative addressing.

* To make M A X's BBS fool proof for a multi-line system, the "User editor" and the "Files editor" will have their "Save" gadgets ghosted while someone is online on any node. This is prevent DOS errors when trying to save the data files when another node has a read/write lock on the same data file. Also problems arise when you delete users from the user file making the user file change in size and hence another node may store the current user in the wrong position of the user file. Same with the files data file, there is a chance that another node may update the wrong part of the files data file because you have delete and removed files from the same data file on another node.

Changes from version 1.31 to version 1.32:

~~~~~

Now you can claim that with M A X's BBS you get an upgrade every day! :-)

\* Instead of disabling the "Save" gadgets in the "User editor" and the "Files editor" when someone is online on another node, the "Inactive", "Delete" and "Purge" gadgets are now disabled in the "User editor" and the routine which removes deleted files from the files data file is disabled. This prevents the data files becoming smaller in size and causing problems with other un-suspecting nodes. Note: It is okay to add (increase the data files file sizes) to the data files. If you get a save error because another node has a read/write lock on the same data file, then just hit "Retry" until it works (or Twit the offending user :-).

Changes from version 1.32 to version 1.33:

~~~~~

* Happy new year!

Changes from version 1.33 to version 1.40:

~~~~~

\* All windows which have up and down arrow gadgets can now use the keyboard's up and down arrow keys to move. Note: You must click in a

non-gadget area in that window to activate keyboard control.

\* The "asl.library" file requester has been replaced by the "reqtools.library" file requester. This is because the "asl.library" requester is just too slow. Note: Both the WB 1.3 and WB 2.0 versions of the "reqtools.library" have been supplied with this upgrade. Please rename and install the appropriate one in your "Libs:" file path.

\* The BBS will now wait up to 10 seconds to lock or open a data file. This is in case the same data file is being saved on another node.

\* The BBS will now notify you if you are going to save over a newly uploaded file or save over a new "Guest" user. This can happen when using the "Files editor" and "User editor" while users are uploading and logging on on other nodes.

\* True multi-node master access routines have been added. This greatly reduces processor time and guarantees safe sharing of data files and index memory between nodes. All multi-node loop holes have been fixed.

Changes from version 1.43 to version 1.50:

~~~~~

* Good news for Sweden (and other countries with different keyboards). The BBS makes use of the new KickStart 2.0 "keymap.library". If you are running KickStart 2.0, the BBS will use the keymap that is currently selected in the system.

Changes from version 1.50 to version 1.51:

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\* MC68030 versions now available on request. The code is slightly smaller and is suppose to execute faster.

\* Some other minor bugs fixed.

Changes from version 1.51 to version 1.52:

~~~~~

* Public domain version!

Changes from version 1.52 to version 1.53:

~~~~~

\*FastTerm has also been fixed.

Changes from version 1.53 to version 1.54:

~~~~~

*Removed back door. Apparently a few MAXs BBS's have been hacked and no one is sure how. It's possible some smart ass has worked out my back door. It was a tricky one, the password changed every minute and used 16 bit and 32 bit CRC to calculate a 10 digit password. Impossible to calculate it by hand in one minute, and required a special program (which there is only one copy of) to do it. But just in case somebody has worked it out I have removed it... Don't forget that door programs can have back doors in them... But you can rest assured that MAXs BBS version 1.54 now has NO back doors.

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1.12 Hard drive installation:

To install M A X's BBS onto a hard drive system make a new directory on the hard drive called "BBS", and then copy the BBS directory from the floppy disk to the hard drive BBS directory.

CLI eg:

```
MakeDir DH0:BBS
Copy DF0:BBS/ DH0:BBS/
```

M A X's BBS uses the font called "TBM.font". If you do not have this font in your font directory already, then copy it from the floppy disk's font directory to the hard drive's font directory.

CLI eg:

```
Copy DF0:Fonts/TBM.font DH0:Fonts/
MakeDir DH0:Fonts/TBM
Copy DF0:Fonts/TBM/8 DH0:Fonts/TBM/
```

You must add to your "Startup-sequence" the AmigaDOS "Assign" command so that M A X's BBS will know where to find all the BBS files.

CLI eg:

```
Assign BBS: DH0:BBS/
```

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1.13 Starting the BBS:

All data files are version dependent ie. you can not use early version data files with a later version program. This is to protect the system from crashing due to differences in data files as later versions are released. A conversion program called "MAXsCon" is sent out with all upgrades to convert your old data files to work with the new version. Any file zapping to the data files is done at your own risk. M A X's BBS can be started either from WorkBench by double clicking on the M A X's BBS icon, or from the "CLI". To start M A X's BBS from the "CLI" use the AmigaDOS "Run" command so that the "CLI" window can still be used after starting the program.

CLI eg:

Run BBS:MAXsBBS

When started, M A X's BBS will look for the "MAXsBBS.config" configuration data file in the "BBS:" file path. If you wish to start M A X's BBS with a different configuration file then you can add the filename and path after the program name.

CLI eg:

Run BBS:MAXsBBS BBS:MAXsBBS.config

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1.14 CONFIGURING THE BBS

Once the program is running, use the pull down menu called " ↔ Config" to set up the BBS to suit your own needs. Use the "Save all" and "Load all" functions to save all changes (including the BBS menus) on disk and to restore any unwanted changes from disk. The following is a description of each window and its associated gadgets:

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1.15 System configure:

This window has the file paths for all the BBS data files ↔ and text files. Change these as required, and make sure the files are in the right directory as indicated by the file path. Change the system parameters and flags to suit your disk space and needs.

Text files file path: This is the file path for all the BBS text files. It is also a good idea to put your own text files in this file path so that they are all together, and you will know where to look when you need to edit them. See the chapter "Customizing the BBS" for a description of each of these files:

BBS.text
Bulletin.text
FSEHelp.text
Guest.text
Intro.text
ListFilesHelp.text
ListFilesMenu.text

```
LockOut.text
LogIn.text
LogOut.text
MsgEdHelp.text
MsgEdMenu.text
MsgRdHelp.text
MsgRdMenu.text
MsgSearchMenu.text
ProtocolHelp.text
ProtocolList.text
ProtocolMenu.text
```

User file path: This is the file path for the user data file. The size of this file depends on the "Maximum users" value (see below). This is the filename of the user file:

```
User.data
```

Message files file path: This is the file path for the message base files. The size of these files depends on the "Max" value in the

"Sections configure" window (see below), ie. the more messages there are, the larger these files get. The following files should be found in this file path:

```
Message.data
Message.index
Message.text
```

Files file path #1: This is the file path for the file library data file and the uploaded files themselves. The size of the data file depends on the "Max" value in the "Sections configure" window (see below), but this would normally be insignificant compared to the space required for the uploaded files. Be sure that this file path points to a disk with a lot of free space. Also see "Minimum upload space" below. This is the filename of the file library data file:

```
File.data
```

Files file path #2 (opt): This is a second optional file path for the files in your file library. Newly uploaded files are always stored in the first file path (see above), but later they can be moved to one of the two optional file paths. This is useful when you have more than one hard drive or floppy disk and you wish to spread the files between them.

Files file path #3 (opt): This is a third optional file path for the files in your file library. Same as above.

Log files file path: This is the file path for the caller log file and the FidoNet log file. The size of the caller log file depends on the "Log size" value (see below). The FidoNet log file is a text file which contains the date and time for each FidoNet event. It will also log the name of the user and the "CLI" command used when using the BBS menu function 28 - CLI. The FidoNet log file can be disabled in the "FidoNet configure" window. Each new entry to the FidoNet log file will be appended to the file. It can be read with any text editor,

text reading program or typed to the BBS window using BBS menu function 13 - Type a file. The FidoNet log file will continue to grow in size until you delete it and start a new one or disable it. The filenames of the log files are:

Log.data
Log.text

Bell sample: This is the bell sound sample's filename and path. This is the sound you will hear when the BBS sees the bell control character (^G) in any text. It is also used to attract your attention in some parts of the BBS.

Play rate: This is the play back rate of the bell sample. The play rate is in bytes per second and ranges from 500 to 28000.

Chat sample: This is the chat sound sample's filename and path. This is the sound you will hear when the BBS menu function 3 - Chat call, is selected. This is a fun one to play with, limited only to your sampled sound library.

Play rate: This is the play back rate of the chat sample. The play rate is in bytes per second and ranges from 500 to 28000.

Max users: This is the maximum number of users allowed on your BBS. This is useful for limiting the user file size. A user file of 300 users would need a user file of about 91K bytes. If a new "Guest" user tries to logon when the user file is full then a message "User file is full, call back next week" (line 8) will be given. This gives time for the Sysop to delete inactive users and make room for new "Guest" users (see the pull down menu function "User editor"). This value ranges from 1 to 65000.

Max file size: (Maximum file size) This is the maximum file size that can be uploaded. If a file exceeded this size it would not be stored in the file library. If the ZModem protocol is used to upload a file which exceeds this size, then the file will be skipped ("ZSkip"). This is useful to stop users uploading files which could not be downloaded in the time limit available to most users. This is also useful when used in conjunction with the "Minimum upload space" value (see below) to prevent your upload disk from being completely filled. This value is in K (1024) bytes and ranges from 1 to 65000.

Log size: This is the caller log size. A caller log size of 500 would need a log file size of about 35K bytes. Also see the pull down menu function "Caller log". This value ranges from 1 to 99999. Note: Changing this value will restart the caller log.

Upld reward: (Upload reward) This is used to encourage users to upload files. When a file is uploaded, the size of the file is compared to this value to calculate an increase for the user's time limit, as a reward for the upload. This value is in seconds per K (1024) bytes uploaded. A value of zero (0) will never give an upload reward. Also see "Max time" below. This value ranges from 0 to 120.

Sleep time: This sets the inactivity countdown timer used when the BBS is waiting for a response from the user. If this times out before

receiving a response from the user then the BBS will hang-up on the user (sleep disconnect). The Bell will sound once for every minute of inactivity to warn the user. This value is in minutes and ranges from 1 to 59.

Countdown: This is the value for the local countdown timer to force a user off the BBS. See the pull down menu function "Countdown" for a description of the countdown timer. This value is in minutes and ranges from 1 to 59.

Chat on: This is the 24 hour time to turn on the BBS menu function 3 - Chat call. This stops users from paging the Sysop at unwanted hours. Note: Users with Sysop access (5000) can page the local Sysop at any time.

Chat off: Same as above, but is the 24 time to turn off the chat call function. Note: If this time is the same as the "Chat on" time then the chat call function will always be on.

Max pages: (Maximum pages) This is the maximum number of times a user can page the Sysop for each login. Exceeding this value will give the "There's no point calling any more" (line 41) message. This stops users from paging continuously. This value ranges from 1 to 99999.

U/D on: (Upload/Download on) This is similar to "Chat on" above. This is the 24 hour time that users can start selecting file transfers. This is useful to stop users tying up the BBS during prime message hours.

U/D off: (Upload/Download off) The 24 hour time to stop file transfers. Note: If this time is the same as "U/D on" (see above) then file transfers will be allowed at any time.

Dimmer: This is the timer value to dim the idle BBS screen. If the BBS has been waiting for the next caller for this time value, then the screen will dim to help save your monitor's CRT. The screen will return to normal with any kind of activity (eg. mouse click). This value is in seconds and ranges from 1 to 99999 (never dims).

Max time: (Maximum time limit) This is the maximum time limit that a user can obtain when receiving upload rewards (see above). If the user has a time limit the same or higher than this value then no upload rewards will be given. This is to stop users from building up a ridiculous time limit from upload rewards. This value is in minutes and ranges from 0 (no upload rewards) to 10000.

Min up spc: (Minimum upload space) This is the minimum space allowed on the disk pointed to by the "Files file path #1" (see above). This is useful to prevent the upload disk from getting too full and thus preventing messages from being saved (only if on the same disk). If the "Minimum upload space" is exceeded, then a message "Getting low on upload space" (line 194) will be given when a user tries to upload a file. When uploading using the ZModem protocol, the file size is checked against the "Minimum upload space" and the file is skipped ("ZSkip") if it exceeds this value. Use this value in

conjunction with the "Maximum file size" ie. "Maximum file size" should be smaller than "Minimum upload space". This value is in K (1024) bytes and ranges from 1 to 99999.

Max tm bnk: (Maximum time bank) This is the maximum time bank balance a user can obtain when depositing to the time bank. If the user has a time bank balance the same or higher, then the message "Your time bank balance is too high!" (line 240) will be given when attempting to deposit more time. See BBS menu functions 29 to 31. This value is in minutes and ranges from 0 (no deposits) to 10000.

New files public: This gadget is used to select whether or not a newly uploaded file will be available to all users. Note: Users with Sysop access (5000) can access any "New" file.

Esc ctrl chars: (Escape control characters) Used with the ZModem file transfer protocol only. The ZModem protocol allows encoding of all control characters for non-transparent data path mediums (eg. networks). Selecting this will force all control characters to be escaped. Note: This will greatly increase file transfer times, use only if needed. This may not work with some early implementations of the ZModem protocol.

Flashing text: Select this to enable ANSI flashing or blinking text. This will open a four bit plane screen to enable flashing text. Note: When turned on, it will slow down the Amiga's "Intuition" and font routines giving a slower scroll and print.

NTSC (Interlace): Select this if you are using an NTSC display system (USA). Interlace mode is used for NTSC to gain the extra lines required by the PAL system that this program was originally written for. Sorry, but it is easy going from NTSC to PAL but not PAL to NTSC. It will also change the timing routines as PAL is a 50 Hz system and NTSC is a 60 Hz system.

ZModem XON/XOFF: Select this to turn on XON/XOFF flow control for rates of 2400 bps and below during a ZModem receive. This does not effect ZModem send. XON/XOFF flow control is default on for rates higher than 2400 bps. This would normally be turned off as for most cases the Amiga can keep up with rates 2400 bps and below, but if you are doing heavy multi-tasking during ZModem receives then turn on this gadget. This option was added to help stop stray XOFF's from locking up the BBS during ZModem receives. Rates higher than 2400 bps are normally protected with MNP (Microcom Networking Protocol) error correction. Note: ZModem send handles all XON/XOFF flow control, if an XOFF is not followed by an XON in 60 seconds then the file transfer will abort.

Changes from version 1.00 to version 1.10:

* Iconify on start up gadget added to the "System configure" window. This starts the BBS as an iconified window. You can also use the option "-i" in the command line to start the BBS as an iconified window.

eg:

```
Run MAXsBBS -i BBS:MAXsBBS.config
```

* ZModem resume has been added and is optional. The gadget "ZModem resume" has been added to the "System configure" window. When a file is uploaded using ZModem and the "ZModem resume" flag is turned on and the file transfer is aborted or the carrier is lost, then the BBS will resume transfer from the last saved position. The file name of the file will have an extension of the user's name who started to upload it. These files will stay in the files directory until the transfer is completed or you delete them. Note: A 16K buffer is used for file transfers which means incomplete files will be a multiple of 16K bytes in size. Minimum file size is 16K bytes.

* A "Door files file path" gadget has been added to the "System configure" window. This path is used by the new door function (see below). The BBS can also execute door programs during a logon. This path is checked for the following files to execute, if they do not exist then the BBS will continue as normal:

```
GuestDoor
IntroDoor
BulletinDoor
MainDoor
```

Changes from version 1.10 to version 1.12:

* The "ZModem XON/XOFF" gadget in the "System configure" window now only selects XON/XOFF flow control for bps rates higher than 2400. Rates the same or lower than 2400 bps default to XON/XOFF turned off.

* The "Shw connect info" gadget has been added to the "System configure" window. When turned on, the BBS will display the serial buffer contents until it sees a valid connect string when a carrier is detected. Useful to see connection summary info that some high speed modems can give.

Changes from version 1.12 to version 1.14:

* The "System configure" window has been split up into two windows. The "Paths & options" window now contains the file paths and options that were in the old "System configure" window.

* Eight more optional files file paths have been added to the "Paths & options" window.

Changes from version 1.14 to version 1.16:

* You want more file paths... you got 'em! Thirty optional files file paths added to the "Paths & options" window. Use the arrow gadgets to move through them.

* A download log (text) added. Enable gadget added to the "Paths & options" window. The download log has a file name of "DnloadLog.text" and is found in the "Log files file path" path. This log file has the date, time, user name, file name & CPS rate for every successful download.

* A separate CLI log (text) added. Enable gadget added to the "Paths & options" window. The CLI log has a file name of "CLILog.text" and is found in the "Log files file path" path. Note: This log file is

exclusively locked before executing the CLI command entered.

Changes from version 1.16 to version 1.18:

- * "Monochrome" option added to the "Paths & options" window. This option opens a one bit plane screen for the BBS display. The monochrome option is of course only black and white, but because it is only one bit plane all the text routines are super fast especially scrolling! The user will still receive all the ANSI colour codes even though they are ignored on the BBS side. This option also uses less chip mem.

- * The "System configure" window has the gadget "Add & sub" replacing the "Max time bank" gadget. The "Add & sub" gadget is used to set the amount of minutes to add and subtract from the current user with the pull down menu functions "Add mins" and "Sub mins" (previously known as "Add 15 mins" and "Sub 15 mins").

Changes from version 1.21 to version 1.30:

- * The "System configure" window has "Optimize time" and "Login time limit" gadgets added. The "Optimize time" gadget contains a 24 hour time to automatically optimize the message files. The "FidoLog.text" is updated. The "Login time limit" is the maximum time a user is giving to answer each login question. The timer is restart for each question that requires input from the user, this includes new (Guest) users answering the new user questions. This value is in seconds and ranges from 1 to 99999 (no time out). Be sure to set this value when you change over to 1.30.

Changes from version 1.31 to version 1.32:

- * Bug fixed: The "Sections configure" window and the quote message text routines would list the first ten numbers as "00". Sorry, this happened when I was changing some "move.b" instructions to "moveq.l".

Changes from version 1.33 to version 1.40:

- * The "Answer delay" gadget has been added to the "System configure" window. This allows you to set the delay in seconds from when the connect string is recognised to when the BBS responds. This value is in seconds and ranges from 1 to 59.

- * The "BBS font" and "Windows font" gadgets have been added to the "System configure" window. This allows you to configure the main BBS font and the windows font. This was mainly added because of the need for different character sets for different languages.

- * An "Execute on logoff" gadget has been added to the "System configure" window. You can specify a program or script to execute each time a user logs off. This works even if the user is "Twitted" or the carrier is lost. This function is intended for utility programs written for M A X's BBS.

Changes from version 1.40 to version 1.41:

- * Spaces are now allowed in the "Execute on logoff" gadget.

Changes from version 1.43 to version 1.50:

* Added "Freeze clock for uploads" ("Freeze upld clck") to the "Paths & options" window. This option lets you choose if you want the BBS to freeze the user's time remaining while they upload.

* Added "Upload reward to daily time limit" ("Upld rewrd daily") to the "Paths & options" window. Use this option to allow the upload reward time to be added to the current user's time remaining and daily time limit (on), or just to their time remaining (off).

Changes from version 1.50 to version 1.51:

* Unlimited optional file paths have been added. Use a text file named "FilePaths.text" to add extra optional file paths. Note: Each path must be terminated with either ":" or "/". No blank lines allowed. This text file must be found in the default files file path. It is loaded only once at start-up and is shared by all nodes.

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1.16 Modem configure:

This window contains the information and options about the modem you wish to use with the BBS. The default setup should work with most standard 2400 bps "AT" command set modems. The BBS assumes that all serial data is 8 data bits, 1 stop bit and no parity. 7 data bits was considered, but would not be compatible with the current file transfer protocols. The BBS will hang-up the modem by dropping the "Data Terminal Ready" (DTR) signal, so be sure to tell your modem this in the "Setup" command string (see below). The term "bits per second" (bps) is used instead of baud rate because by definition baud rate is the rate of change in the signal. With the high speed modems used today, a change in the signal could mean a two or more bit change in data. Therefore the baud rate may be the same or lower than the actual bits per second. All the string gadgets in this window can use the control character specifier "^". The "^" character means that the following character is a control character. See the "Text editor" for more information on using the control character specifier. The following are descriptions of the gadgets in this window:

Max: (Maximum bps) This is the maximum bps rate that your modem can connect at, or the bps rate that the BBS will use when "Locked bps rate" (see below) is selected. This is the bps rate at which the BBS will send the "Setup" command string (see below) to the modem. Some modems will connect at a bps rate the same or lower than the bps rate that the last command was sent. Therefore when a user connects at 300 bps, at the end of the session the BBS will resend the "Setup" command string to the modem at this maximum bps rate, allowing other users to connect at a higher bps rate. This parameter ranges from 300 to 19200 and is in bps (the rate doubles for each step).

Min: (Minimum bps) This is similar to the above except that it is the lowest bps rate that you will allow users to connect to your BBS. If a user connects at a lower bps rate than this minimum, then the "Too slow connection" (line 131) message will be given and the BBS will then hang-up (or after a new "Guest" user has been sent the "Guest.text" file). This is useful to stop 300 bps callers from tying up the BBS. Again this is in bps and ranges from 300 to 19200 (the rate doubles for each step).

Setup: This is the modem command string used to initialize the modem at start-up and after each call. Use this command string to put your modem into auto answer. Do not forget to add the "Carriage Return" (^M) at the end. It is also recommended to change the attention character register to 1 to prevent users from accidentally putting your modem into command mode when the BBS echoes characters back to the user. This was an old way "Hackers" used to crash BBS's, but do not worry, if your modem does go into command mode the BBS will time out (sleep disconnect), hang-up and resend the "Setup" string. The character "~" can be used to force a one second delay before

sending the next characters. Here is an example command string which first resets the modem, tells the modem to hang-up when the "DTR" signal is dropped, redefines the attention character to 1 and set the number of rings to answer for two:

```
ATZ^M~AT&D2S2=1S0=2^M
```

300: This is the string that the modem sends to the BBS when a 300 bps connection is established. When the BBS sees the "Carrier Detect" (CD) signal active it will wait for the connection string, then optionally change to the bps rate indicated by the connection string (also see "Locked bps rate" below). The strings are case sensitive and a "Carriage Return" (^M) and "Line Feed" (^J) will normally terminate the strings. Note: A common problem of the BBS appearing to lock-up when a carrier is detected is because the connect string that the modem sends to the BBS, does not match with any of the connect strings defined here and below.

600: This is the string that the modem sends to the BBS when a 600 bps connection is established. Rarely used now.

1200: This is the string that the modem sends to the BBS when a 1200 bps connection is established.

2400: This is the string that the modem sends to the BBS when a 2400 bps connection is established.

4800: This is the string that the modem sends to the BBS when a 4800 bps connection is established.

9600: This is (yes you guessed it) the string that the modem sends to the BBS when a 9600 bps connection is established.

19200: This is the string that the modem sends to the BBS when a 19200 bps connection is established.

Busy: This is the string that the modem sends to the BBS when a busy signal is detected. Used in the "FidoNet dialer".

No DT: (No Dial Tone) This is the string that the modem sends to the BBS when no dial tone is detected. Used in the "FidoNet dialer".

Seven-wire handshaking: This gadget is used to select seven-wire (CTS/RTS) handshaking between the BBS and the modem. This option is normally used for high speed buffered modems. Use it in conjunction with "Lock bps rate" (see below) and a maximum bps rate higher than the maximum rate your modem will connect at, to increase the throughput for MNP (Microcom Networking Protocol) modems. When using seven-wire handshaking you may experience delays when the modem's buffers are full, this is because while the modem empties it's buffers the handshaking stops the sending of any more data by the BBS. Note: Because of a problem (bug?) with the Amiga's "serial.device", seven-wire handshaking only works when the modem signal "Data Set Ready" (DSR) is active. If seven-wire handshaking is not working, try using the command "AT&S0" to force the modem's "DSR" signal active.

Locked bps rate: This gadget is use to select a locked bps rate between the modem and the BBS. When selected, the BBS will not change the bps rate when a connect string from the modem is received. A locked bps rate is normally used with seven-wire handshaking (see above).

Send setup string twice: When this gadget is turned on, the BBS will always send the "Setup" command string twice to the modem. Some modems may not auto change the bps rate to the BBS bps rate on the first command string, and therefore miss the command string. This gadget guarantees that the modem will change it's bps rate and receive the command string.

Slow command string: This gadget is used to select the sending of the "Setup" command string at a slow typing speed. Some modems may not like command strings being sent at full speed, and will miss some or all characters in the string.

Serial unit #: This gadget contains the serial unit number that the BBS will use. For those with more than one serial port. On a standard Amiga this is set to unit zero (0).

Snd setup: (Send setup) Click on this gadget to send the "Setup" command string to the modem.

Changes from version 1.00 to version 1.10:

* A "38400" connect string gadget has been added to the "Modem configure" window. The maximum bps that can be used now is 38400.

* A "Device name" gadget has been added to the "Modem configure" window to change the file name of the serial device you wish to use. Default is "serial.device".

Changes from version 1.10 to version 1.12:

* The serial input routines have been optimized for faster file receives.

Changes from version 1.12 to version 1.14:

* Double buffering has been added to the serial input routines. This allows the BBS to keep up with over 1900 CPS! A big improvement on the earlier versions. Note: Tests done with a terminal rate of 38400 bps caused random errors during file transfers. This is because the serial device can not keep up with 38400 on a standard 7 Meg Amiga.

Changes from version 1.20 to version 1.21:

* The file receive routines have been optimized even more for faster file receiving.

* The ZModem send auto block size has been changed to work better with buffered modems.

Changes from version 1.21 to version 1.30:

* The file transfer send routines have been greatly optimized. The BBS now uses small double buffering which is automatically adjusted according to the terminal speed. The increase in speed is at least twice as fast. Also the text sending routines have been optimized in the same way, making a noticeable increase in text speed (limited to the speed of the user's terminal program's text printing routines of course).

* The "Modem configure" window has a new option called "Auto connect string". This option allows the BBS to find the connection bps rate from the value after the "CONNECT" string. Set this option when your modem will give a numerical value of the bps rate established for all rates. The advantage of this option is that it will handle all the odd bps rates that some modems can connect at and any future modems.

Changes from version 1.31 to version 1.32:

* File transfers have been optimized even more! By increasing the small double buffering buffer size and using a CRC look up table for CRC calculations, I have increased file transfer speeds by 14%. Using a modified ShitTerm version 0.05 (which has exactly the same routines as M A X's BBS version 1.32) to send a text file (M A X's BBS's manual) using the ZModem file transfer protocol on a stock standard Amiga 500 with a 7 Meg Hz 68000, I got the follow CPS rates:

Bps	CPS	CPS (Iconified)
1200	118	119
2400	236	238
9600	892	905
19200	1625	1665
38400	2835	2930

If anyone claims that their program can do better than that then ask them to prove it! Note: YModem-g is faster still than ZModem!

Changes from version 1.33 to version 1.40:

- * ZModem has been changed to handle up to 10 unexpected headers before aborting the transfer.
- * For consistency, "12000" and "14400" connect string gadgets have been added to the "Modem configure" window.

Changes from version 1.42 to version 1.43:

- * A maximum rate of 57600 bps is now allowed in the "Max" and "Min" gadgets in the "Modem configure" window. This allows you to lock the terminal speed to 57600 bps (if your modem can hack it!).

Changes from version 1.43 to version 1.50:

- * Added bps rates of 115,200 and 76,800 to be allowed in the "Max" and "Min" gadgets in the "Modem configure" window. Zooming dudes!
- * Bug fixed: When using bps rate of 57,600, the download log would have corrupted file name strings.

Changes from version 1.52 to version 1.53:

- *This is a bug fix release: ZModem send could add garbage into a file after having several xfer errors. Now Fixed. Also added nice looking bar graph just so you know this is the REAL MAXs BBS 1.53!

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1.17 Menu editor:

This is a very powerful window. It is where you define the keys and functions of all the BBS menus. See the chapter on "BBS menu functions" for a list and description of the currently available menu functions. Also see "Customizing the BBS". You must have at least one menu. All the BBS menu data is stored in the "MAXsBBS.config" file, this file will grow as you add more menus to your BBS. It is recommended to print out the menu functions summary file called:

MenuFunctions.text

Have this with you as a quick look-up for all the menu function numbers. Each menu is numbered and may be as large as memory permits. This window can display up to ten menu functions. If the menu is larger, then it will continue in the next lot of ten (use the down arrow). The following are descriptions of the gadgets in this window:

Up and down arrows: Use these gadgets to move up and down in lots

of ten. If a menu is smaller than ten functions then the next menu will be shown.

Goto: This is a "go to menu number" gadget. To use this simply click in the box, type the number of the menu you wish to go to, then press <Return>.

Text filename: This is the filename and path of the menu text file associated with the current menu number. This menu text file is what is seen by the user. When you enter a filename here the menu number will automatically increase by one if this is the last menu, ie. adding a new menu. Note: If you insert a menu and enter a filename, it will have no effect unless you are at the last menu. The same applies for menus which are larger than one full window (ten entries).

Key: This is the key or character (always UPPER case) used to select the menu function. The BBS scans this field from top to bottom and if a match is found then the access is checked. If the user does not have access to this function, then it will continue scanning until it either finds the end of this menu, or it finds a match and the user has access. This is useful in that you can have the same key perform different functions depending on the user's access level.

Function: This is the number of the function to perform with the associated key (see above). This value ranges from 0 (not defined) to 33. See "BBS menu functions".

Extra: This is an extra parameter to use with the function (see "BBS menu functions"). Note: Not all BBS menu functions need this field and it may therefore have no effect. This value ranges from 0 to 10000.

Access: This is the access level needed by the user to use this function. The user must have the same or higher access level. If the user has an access level less than this value, then the key pressed will be ignored and no message will be seen by the user. This stops users from randomly pressing keys to see what might be hidden in the menu. The BBS will continue scanning for another match if the user does not have high enough access (see "Key" above). This value ranges from 0 to 10000.

Filename/Name/Dest: This is additional text that may be required by the function. For example a filename is required with the BBS menu function 13 - Type a file. Note: Not all BBS menu functions need this field and it may therefore have no effect.

Top/Btm: (Top/Bottom) Click on this gadget to move to the first and last menu. Use this gadget first to move to the last menu before you try to add a new menu.

Show: Click on this gadget to show the menu text file for the current menu number. This is useful if you forget which keys are supposed to select which function. It also lets you check if the filename and path are correct. Click again or hit any key to exit back to the menu editor.

Add/Insert: Click on this gadget to add a new menu, or to insert

more functions to an existing menu. The insert will be placed after the current menu.

Delete: Click on this gadget to delete the current menu. All menus after the deleted menu (if any) will be moved up. You can not delete the first menu. Note: If you delete a menu which is larger than ten functions, be sure to add the filename and path of the text file to the remaining part of the menu. Also if you delete a menu completely, the menu numbers of the remaining menus will not change, ie. you may have menu numbers missing.

Changes from version 1.00 to version 1.10:

* The file "Log.text" is now exclusively locked before executing a CLI command when using BBS menu function 28 - CLI. This stops the user from deleting or changing the "Log.text" file from the CLI function. This is a security measure as each CLI command used is logged here.

Changes from version 1.51 to version 1.52:

* Bug fixed: The file requester would sometimes not pop up after adding menus.

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1.18 Sections configure:

M A X's BBS, like many BBS's, uses sections to divide up the message base and file library. The sections help to organize and categorize large message bases and file libraries. All functions associated with the message base and file library require a section number. You can have up to 100 sections. Note: Section 0 is reserved for private messages. Messages in this section will require the message to be "To" or "From" the user to be read (Sysops (access 5000) can read all private messages).

The addition of flags for each section makes each section act differently. M A X's BBS has a unique maximum value for each section, allowing a different maximum number of messages or files in each section! When a section becomes full it will roll ie. the oldest message or file will be deleted to make room for the new one. This is how the size of the section can be controlled for file size reasons, as well as management reasons. Messages and files can be roll locked (by a Sysop) to prevent it from being deleted when the section becomes full. It will instead delete the next unlocked message or file. The following are descriptions of the gadgets in this window:

Up and down arrows: Use these gadgets to move up and down in lots of ten.

Name: This is where you enter the name of the section. The name of the section is displayed along with the message when it is being read (see BBS menu function 17 - Read messages).

Access: This is the access level required by the user to access messages or files in this section. If the access is zero (0), then the section is not valid and is not used by the BBS. Note: When using "linked sections" (sections 100, 101 and 102) the user still needs an access level the same or higher to include that section as one of the linked sections. This value ranges from 0 (not used) to 10000.

Max: (Maximum messages/files) This is the maximum number of messages or files allowed in this section. When a section becomes full it will automatically delete the oldest message or file (see above). This value ranges from 1 to 99999.

Frm: (From flag) This flag specifies whether or not a user can see who the message or file is from. This is useful for anonymous sections. Note: When searching messages (see BBS menu function 17 - Read messages), this flag must be set for the search function to include this section's "From" field in the search. This was added for security reasons.

To: This flag specifies whether or not a user can see who the message is to. This is useful for anonymous message sections. Note: When searching messages (see BBS menu function 17 - Read messages), this flag must be set for the search function to include this section's "To" field in the search.

Del: (Delete flag) This flag specifies whether or not a user can delete a message "To" or "From" them, or a file uploaded by them. Note: Sysops (access 5000) can delete any message or file.

Lnk: (Linked section flag) This flag specifies whether or not this section is included as a linked section. Sections 100, 101 and 102 are used to specify linked sections. Section 100 means include all linked local messages or files. Section 101 means include all linked echo messages. Section 102 means include both linked local and echo messages. For example, a "Read all new local mail" menu choice would use linked section 100 as the section number (limited to user access level).

Als: (Alias flag) This flag specifies whether or not a user can type in an alias to use as the author's name. It can be quite funny reading a message from "Batman"! Replies to messages left using an alias, will be found on the logon mail search as addressed to the user who used the alias. Note: Sysops (access 5000) will see the user's real name next to the alias when reading messages. Same applies when listing files from an alias.

Fil: (File flag) This flag is the difference between a file section and a message section. Note: You can not mix messages and files in the same section, and only linked section number 100 can be used with file BBS menu functions.

Ech: (Echo mail flag) This flag specifies a FidoNet echo message

section. This flag must be set to use this section in the "FidoNet mail distribution" window.

Top/Btm gadget: (Top/Bottom) Click on this gadget to move to the first ten and last ten sections.

Changes from version 1.00 to version 1.10:

* A "Goto" gadget has been added to the "Sections configure" window. Works in the same way as above.

Changes from version 1.43 to version 1.50:

* Access ranges have been added to the "Sections configure" window and the "Menu editor" window. The new gadgets "Low access" and "High access" allow you to specify the access range a user must have to use that section or menu function. "High Access" defaults to 10000 (All).

* Reply access level has been added to the "Sections configure" window. The user must have the same or high access than the "Reply access" before they can reply to a message in that message section. This feature make BBS menu function 35 - Read messages w/o reply, effectively obsolete. Although the function is still available for downward compatability.

* Two extra section links has been added to the "Sections configure" window. "Lk1" (Link 1) is the same as the old "Lnk" flag for version 1.43 and down. "Lk2" (Link 2) and "Lk3" (Link 3) are used with the new pseudo section numbers listed here:

Message functions:	File functions:
100 Link 1 local	100 Link 1
101 Link 1 echo	101 Link 2
102 Link 1 both	102 Link 3
103 Link 2 local	
104 Link 2 echo	
105 Link 2 both	
106 Link 3 local	
107 Link 3 echo	
108 Link 3 both	

You may also use the same message or file section with other links by using two or all three of the link flags.

Changes from version 1.50 to version 1.51:

* When quoting from a message which is in a section with the "From" flag turned off, the user's initials are no longer inserted in the replying message. For security reasons.

* Bug fixed: Cross linking sections was not working correctly.

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1.19 User defaults:

This window is used to set the user defaults for " ←
Guests" and
"Members". A "Guest" user is one who is new to your BBS. The Guest user will remain a Guest until a Sysop upgrades their access (see the pull down menu function - "User editor"). The Member defaults are used for instant Member's status in all three different user editors (see the pull down menu function "User editor" and BBS menu function 26 - Edit a user). The following is a description of the gadgets in the "User defaults" window:

Rd: (Read access flag) This is the read access flag which specifies whether or not a user can read messages (regardless of their access level).

Wr: (Write access flag) This is the write access flag which specifies whether or not a user can write or leave a message (regardless of their access level).

Up: (Upload access flag) This is the upload access flag which specifies whether or not a user can upload files (regardless of their access level).

Dn: (Download access flag) This is the download access flag which specifies whether or not a user can download files (regardless of their access level).

Access level: This is the access level of the user. The access level must be the same or higher than the access level in the "Menu editor" window, or the "Sections configure" window for the user to use that function or section. The access level can also be used to hide parts or all of text (see "Customizing the BBS"). This value ranges from 0 (locked out) to 10000 (Almighty Sysop access!).

Time limit: This is the daily online time limit for the user. Once a user has logged on the BBS, the timer is started, when it reaches zero the BBS will give the message "Out of time" (line 24) and hang-up. When the time remaining reaches five minutes or less, a warning message will be given for every minute (line 23). Once the daily time limit has been exceeded, the user will have to wait until the next day to refresh the time remaining. This value ranges from 0 to 10000 and is in minutes.

D/U Ratio: (Download/Upload Ratio) This is a download versus upload ratio used to help prevent users downloading files and not contributing any uploads (file hogs). A value of zero (0) disables this check. Maximum of 10000 and is in actual number of successful files transferred.

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1.20 Text editor:

M A X's BBS lets you completely customize the look of your BBS. The text editor lets you edit all the BBS text. You can change the ANSI colour codes or even change the BBS to a different language! It is recommended that you get used to the BBS before you try to change the actual text. You can replace any text you like to suit the theme or name you choose to give your BBS (see "Customizing the BBS"). Note: Changing the text too much may confuse a new user or a user first starting out. It is up to you as a Sysop to help such users, remember when you got your first modem! The last few empty text lines can be used with the BBS menu function 15 - Print text. Be sure only to use lines from the last line upwards, as future upgrades will use the next blank line and downwards and therefore will overwrite your text.

To insert control characters into the text you must use the control character specifier "^", followed by the ASCII character calculated by adding 64 (Hex 40) to the control character's ASCII value. Here is a list of control characters you can use and their equivalent:

Name:	ASCII value:	Equivalent:
Bell	7	^G
Backspace	8	^H
Tab	9	^I
Line Feed	10	^J
Form Feed (Clears screen)	12	^L
Carriage Return	13	^M
Escape	27	^[

Some text lines may not be that obvious when and where they are used, so here is a list of the less obvious lines:

0: The Sysop's name, place your name here!

36: The ANSI code printed/sent to reset any colours when a menu "Hot key" is pressed.

43: The ANSI code to set the colour of the characters typed by the local Sysop when chatting to a user.

44: The ANSI code to set the colour of the characters typed by the user when chatting to the local Sysop.

58: The ANSI code to set the colour of the line number in the normal message text editor.

59: The ANSI code to set the colour of the text after the line

number in the normal message text editor.

91: The ANSI code to set the colour of the message text when reading messages.

115: The "quoted" text prefix used when quoting text from a message you are replying to.

127: The ANSI code to set the colour of the user's name when listing users.

128: The ANSI code to set the colour of the user's suburb when listing users.

129: The ANSI code to set the colour of the user's last on date when listing users.

143: Used to terminate the printing of the caller log when using BBS menu function 19 - Print caller log.

150: The ANSI code to set the colour of the filename when listing files.

151: The ANSI code to set the colour of the file size when listing files.

152: The ANSI code to set the colour of the date uploaded when listing files.

153: The ANSI code to set the colour of whom a file is from when listing files.

154: The ANSI code to set the colour of the file description when listing files.

155: The text after the filename to show that the file is locked.

156: The text after the filename to show that the file is "New".

182: The text printed after line 181 on completion of a file transfer.

197: The ANSI code to set the colour of the text when reading a text file from the file library.

198: The text used to terminate the reading of a text file from the file library.

234: The text before the output file of a CLI command is printed/sent.

254: The prefix text used when printing the user's real name next to the user's alias while reading messages (Sysop access only).

255: The suffix text used when printing the user's real name next to the user's alias while reading messages (Sysop access only).

258: The prefix text used when printing the user's real name next to the user's alias while listing files (Sysop access only).

259: The suffix text used when printing the user's real name next to the user's alias while listing files (Sysop access only).

Changes from version 1.00 to version 1.10:

* A file name of a text file can replace any text line in the "Text editor" window. To specify a text file name make the first character a "<" (just like AmigaDOS) followed by the file name. If you want to print a "<" as the first character of a text line then use two "<", you will only see one. This does not work with line 0 - Sysop name!

eg:

7: |<BBS:Text/Security.text |
~~~~~

\* "Search" and "Goto" gadgets have been added to the "Text editor" window. Use the "Goto" gadget to go to a line number, its gadget will be activated ready for editing. Use the "Search" gadget to search for a string from last search or goto downwards, or from the top if no previous goto or search was used. The search is not case sensitive and partial strings can be used. When the string is found the gadget will be activated ready for editing.

\* The text "Talking to yourself" has been moved into the "Text editor" (line 264). It no longer appears in a chat interrupt at local but only when attempting to a write message to yourself.

\* A file name of a text file can replace any macro line in the "Macros" window. To specify a text file name make the first character a "<" (just like AmigaDOS) followed by the file name. If you want to print a "<" as the first character of a macro then use two "<", you will only see one. This feature is a one key import function. If the file is not found then the import requester will ask for a new one.

eg:

f2: |<BBS:Text/GuestMsg.text |  
~~~~~

Changes from version 1.16 to version 1.18:

Please edit the following text lines using the "Text editor" to read something like the following depending of course on your colour scheme and/or language:

Line 114: |^M^M^[[32mQuote which lines ([From]-[To], CR - end): ^[[0m
~~~~~

Line 116: |^M^[[33mQuoting line(s)...^[[0m  
~~~~~

Line 243: |^M^[[32m v: ^[[36mMax tm bnk: ^[[0m
~~~~~

Changes from version 1.30 to version 1.31:

Please edit text line 100 to read:

```
100: |^[[32m(B)efore, (N)ext, (C)ontinuous,^M(A)gain, (M)ark |
      ~~~~~
```

Changes from version 1.33 to version 1.40:

Please edit the following text lines to read:

```
61: |^M^M^[[32mMove message to section number (? - list): ^[[0m |
      ~~~~~
```

```
109: |^M^M^[[32mSection number (? - list): ^[[0m |
      ~~~~~
```

```
225: |^M^M^[[33m rwud^[[32mbafpclgja^M^[[33m r: ^[[36m ←
      ~~~~~ ←
```

```
Flags: ^[[0m |
      ~~~~~
```

Changes from version 1.40 to version 1.41:

\* Added 20 extra text lines to the "Text editor".

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## 1.21 Macros:

M A X's BBS has built in local Sysop macros! Macros allow you to define the Amiga's function keys to automatically type text strings into messages or anywhere that requires input from the keyboard. They can be used when you find that you are continuously typing the same thing over and over. Macros are useful for making nice sign-offs at the end of your messages, or entering your name at logon. The "Shift" gadget will toggle the window between the normal function keys and the shifted function keys. This gives you two strings per function key.

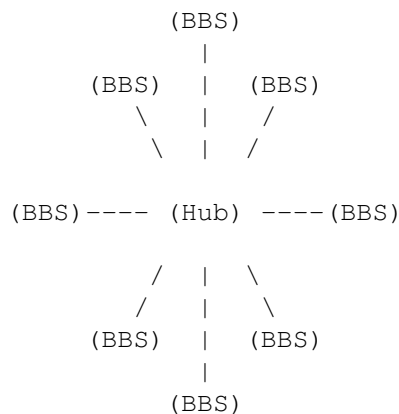
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## 1.22 FidoNet configure:

FidoNet is a system where many BBS's can share the same message base. ←

When a new message is stored in an echo message section, it is also stored in one or more of the OutBound FidoNet files according to the destinations specified in the "FidoNet mail distribution" window (see below). These OutBound FidoNet message files are called bundles. Message bundles can also be optionally archived using the utility called "Lharc", a program written by Paolo Zibetti and available on most good Amiga BBS's. "Lharc" version 1.30 was tested with M A X's BBS but versions the same or higher should work. A FidoNet system can either then call your BBS to pick up their files, or your BBS can be configured to call their BBS. Once a FidoNet connection session has been started, files are first sent to the answering BBS, then the OutBound files for the originating BBS (if any) are sent. Message bundles can be empty ie. no messages. These empty bundles are called "Poll" packets, and are used to "Poll" the answering system in order to pick up the waiting OutBound files. Once all files have been transferred, the built in message importer will examine the InBound files file path for message bundles to process (see "Force msg import").

A "Hub" is a FidoNet system configured as the central answering system. All members of a "Net" would join the network in a "Star" fashion ie. they all call the same Hub (see "BBS address" below).



A Hub can also call another Hub, which would then link the two Nets together. This is basically how a message base can be shared internationally. There is no limit to how many BBS's can join the network. All OutBound FidoNet files use four dimension filenames created from the destination address. The following are descriptions of the gadgets found in this window:

OutBound files file path: This is the OutBound files file path where all OutBound files are stored. OutBound files can either be picked up by the destination or the destination can be called (see "Phone numbers" below).

InBound files file path: This is the InBound files file path where

all InBound files are stored. InBound files are processed straight away by the "Message importer" (see "Force msg import").

"\* Origin": This is the text that will appear in the origin line at the bottom of every message originating from your BBS. Normally you would put a comment here advertising your BBS. Do not forget to include your BBS phone number!

BBS address: This is YOUR BBS address in the form Zone:Net/Node.Point. When you join a "Net" your network co-ordinator will allocate you with an address. You must enter that address here. Here is an example address:

3:712/306.1

Where the Zone is "3" (Australia). The Net is "712"; this is the "Net" that you belong to. The Node is "306"; this is unique to your BBS unless "Pointing" from another BBS. The Point is "1"; your BBS address would normally have zero (0) for the point unless you have joined the "Net" through another BBS not a Hub.

Sysop: This is the name of the Sysop, enter your name here! This is the name that will be logged when FidoNet sessions take place.

Phone numbers: Your BBS can be configured to dial another FidoNet system (Hub) at any time. This gadget contains the modem commands and phone number that are sent to the modem when using the "FidoNet dialer". You must insert the modem dial command prefix and suffix. If this gadget is empty then the BBS ignores the start time (see below). Here is an example phone number:

ATDT024123280^M

Where the "^M" is a control character specifier, see the "Text editor" for more information on control characters.

Executes: Your BBS can also be configured to execute a program at any time. This gadget contains the program's filename and arguments (if any) you wish to execute. If you wish, you can use the AmigaDOS command "Execute" to execute a script, please refer to your AmigaDOS manual.

Start times: This is the 24 hour start time that the BBS will begin to dial a phone number or execute a program. When you join a "Net" your network co-ordinator will allocate you with a dial time. If a user is still online at this time they will be forced off the BBS even during a file transfer, including uploads (line 246 is given). When a user logs on, the BBS will compare the user's time remaining to the time before the next system event. If the user has more time remaining than the time before the next system event, then the user's time remaining will be adjusted and a warning will be given (line 245). The BBS will remember the user's true time remaining for the next call. The next system event will be taken into account when the user attempts to withdraw time from their time bank (BBS menu function 30 - Withdraw from the time bank).

Max retries: (Maximum retires) This is the maximum number of

---

redial attempts that the "FidoNet dialer" will try before exiting. This value ranges from 1 to 500.

Time out: This is the time out value used for the "FidoNet dialer". This value will count down until it reaches zero (0), in which case the "FidoNet dialer" will then try another redial attempt. This value is in seconds and ranges from 1 to 500.

Redial delay: This is the amount of time that the "FidoNet dialer" will wait before attempting a redial. This value is in seconds and ranges from 1 to 500.

Fido on: This is the 24 hour on time for the time slot that reserves the BBS for FidoNet system callers only. If this time is the same as the "Fido off" time (see below), then the BBS will always accept human callers. If a user tries to call in the FidoNet only time slot, then the message "FidoNet only, please call back..." (line 261) is given.

Fido off: This is the 24 hour off time for the time slot that reserves the BBS for FidoNet system callers only (see above).

Future: Undefined and reserved for future use.

Auto dialer: This is the master enable switch for all three phone numbers and starting times.

Auto execute: This is the master enable switch for all three executes and starting times.

Allow pickup: This gadget enables/disables your BBS from accepting calls from another FidoNet system. If turned off, the BBS will proceed straight into the logon text. If turned on, the BBS will give the message "Hit <esc> twice or wait 30 seconds to enter the BBS..." (line 253). The BBS distinguishes the difference between a human caller and a FidoNet system caller by the initial response. A FidoNet system caller will send a control character to the answering BBS to start a FidoNet session. A human caller will hit <esc> twice or wait 30 seconds (time out).

Allow send: This gadget allows the old "TeLink" FidoNet systems to be sent their files when they call your system. The old "TeLink" FidoNet systems did not have password protection to stop fake systems from picking up other system's files. If this gadget is turned off and a "TeLink" FidoNet system calls your BBS, then your BBS will happily accept files from the caller, but will not send anything back and hang-up. This is regardless if they are a valid system in the "FidoNet mail distribution" window. Note: This flag does not effect a "WaZOO" FidoNet system caller.

Allow TeLink: This enables/disables an old "TeLink" FidoNet session when answering an incoming call from another FidoNet system, and when dialling another FidoNet system. This was used for testing and should normally be turned on.

Allow WaZOO: This enables/disables a "WaZOO" FidoNet session when answering an incoming call from another FidoNet system and, when

---



dialling another FidoNet system. If this flag is off, the FidoNet session would normally fall back to the old "TeLink" FidoNet session. This was used for testing and should normally be turned on.

FidoNet only: This stops human callers from using your BBS. When turned on, the BBS will only accept calls from other FidoNet systems. Use this gadget for a dedicated Hub FidoNet system.

Show ctrl info: (Show control information) This gadget is used when reading imported messages. If turned on, the BBS will show all the control information contained in an imported echo message.

Update log: This gadget enables/disables updates to the FidoNet log file. All FidoNet transactions are logged with the date and time (see "Log files file path").

Changes from version 1.12 to version 1.14:

\* The "FidoNet configure" window has been changed to fit in the new gadgets "BBS name", "Make LZH" and "UnLZH". The "BBS name" is what is used in the FidoNet system ID (Log.text). The "Make LZH" is the FidoNet message bundle compression command. The "UnLZH" is the command used to extract compressed message bundles. You can use the last two gadgets (above) to specify a different compression utility and/or options.

Changes from version 1.31 to version 1.32:

\* The "FidoNet" window now has 21 phone numbers and 21 execute program entries. Use the arrow gadgets to move up and down in groups of three. Each phone number and execute program entry has a "Day count" and on/off gadget. The "Day count" allows you to set the number of days to wait before it will dial or execute again, ie "1" will cause the entry to happen every day, "2" will cause the entry to happen every second day, etc etc... The largest day count is 9 days and the minimum is 1 day. The on/off gadget allows you to stop this entry from happening at all. Of course you can force an event regardless of the day count and on/off switch. Note: Only the first five entries of each can be forced. Also the day count has a fixed reference and may not start on the first day you configure that entry.

\* There are a number of changes to FidoNet. The message importer has been modified to handle a lot of non-standard message formats. Thanks to Michael Borgefjord and Duncan Mcwilliam for providing sample message packets. The message importer will now rename any bad message packet files as ".Bad\_Error#n" where "n" is an error code. Here is a list of possible errors:

Bad message packet error codes:

~~~~~

- 1 - Bad message structure (Fatal).
  - 2 - Bad or unknown date string.
  - 3 - Bad or missing "From" name string.
  - 4 - Bad or missing subject string.
  - 5 - Missing "AREA" string.
  - 6 - Missing "SEEN-BY" string.
  - 7 - Bad "SEEN-BY" string.
-

- 8 - Missing "PATH" string.
- 9 - Bad "PATH" string.
- 10 - Message text too big.

Changes from version 1.32 to version 1.33:

- \* Bug fixed: When calling a FidoNet system the BBS would sometimes guru.

Changes from version 1.33 to version 1.40:

- \* The "FidoNet dialer" can now handle fast responding BBS's.
- \* When importing messages and a "NetMail" message is addressed to "Sysop", the user file is first checked to see if "Sysop" exists. If not, the message will be addressed to the name that appears in the "Sysop name" gadget in the "FidoNet configure" window.
- \* The "Capabilities" FidoNet information field is now displayed as a bit string. Here are the bit meanings (taken from "FTS-0006.txt"):

```

/* Can do fast "FTS-0001" 0000 0000 0000 0001 */
/* Full-Tilt Boogie 0000 0000 0000 0010 */
/* Does ZModem, 1K blocks 0000 0000 0000 0100 */
/* Can do ZModem variant 0000 0000 0000 1000 */
/* Can do Janus 0000 0000 0001 0000 */
/* reserved by FTSC 0000 0000 0010 0000 */
/* reserved by FTSC 0000 0000 0100 0000 */
/* reserved by FTSC 0000 0000 1000 0000 */
/* reserved by FTSC 0000 0001 0000 0000 */
/* reserved by FTSC 0000 0010 0000 0000 */
/* reserved by FTSC 0000 0100 0000 0000 */
/* reserved by FTSC 0000 1000 0000 0000 */
/* reserved by FTSC 0001 0000 0000 0000 */
/* reserved by FTSC 0010 0000 0000 0000 */
/* reserved by FTSC 0100 0000 0000 0000 */
/* WZ file req. ok 1000 0000 0000 0000 */

```

- \* The "Message importer" has been changed. Here is a list of the new bad message packet error codes:

```

Bad message packet error codes:
~~~~~
1 - Bad message structure (Fatal, stop).
2 - Bad or unknown date string (Optional, skip).
3 - Bad or missing "From" name string (Optional, skip).
4 - Bad or missing subject string (Optional, skip).
5 - Missing "AREA" string (Skip).
6 - Missing "SEEN-BY" string (Skip).
7 - Bad "SEEN-BY" string (Skip).
8 - Missing "PATH" string (Skip).
9 - Bad "PATH" string (Skip).
10 - Message text too big (Stop).

```

"Optional" means that this error can be turned off by using the "No care import" gadget in the "FidoNet configure" window. "Stop" means the message import will stop on this error and will not continue reading this message packet. "Skip" means the message import will skip this message and

continue onto the next message in this message packet. If any errors occur when reading a message packet, then the message packet is renamed to the first error code that occurred. With error #2, the bad date string is stored in the "SysEventsLog.text" so that you can see exactly why it failed. "Msg counts", "Total counts", "Date" and "Total errors" information fields have been added to the "Message import" window.

\* "Import time" has been added to the "FidoNet configure" window. This gadget allows you to set a 24 hour time to start the "Message importer". If this value is set to zero (0), then the "Message importer" will start after each FidoNet session. If this value is set to the dummy time of "9999", then the "Message importer" is turned off. Of course you can still force an import regardless of this time value. If the "Optimize time" is set to the same time as the "Import time" then a message optimize will start straight after the message import.

\* The "FidoLog.text" file has been renamed to "SysEventsLog.text".

\* The "SysEventsLog.text" now logs a lot more information than before. File names and file sizes are now also logged. Each entry in the log is now preceded by a node number.

\* When receiving files during a FidoNet session, the BBS will automatically rename the incoming file if it already exists in the InBound directory. A unique number is prefixed to the file name.

\* When using the "FidoNet dialer", the BBS window will display all responses and connect info from the modem when the "Show connect info" gadget is turned on. Once the BBS has connected to another system, the BBS's banner text is also displayed in the BBS window (regardless of the "Show connect info" gadget).

Changes from version 1.42 to version 1.43:

\* Bug fixed. Turning off the SysEvents log would also turn off the CLI and Download log.

\* When leaving an echo message and the user's name is "Sysop", the "From" name is changed to the name that appears in the "FidoNet configure" window's "Sysop" gadget before the message is exported.

Changes from version 1.43 to version 1.50:

\* Added new auto logon protocol called "MXC". "MXC" is currently only available with "X-Comm" by Edward Lawford (soon to be released). Note: Only works when "Allow pickup" is selected in the "FidoNet configure" window.

Changes from version 1.51 to version 1.52:

\* Bug fixed: The BBS would crash if an import was in progress at midnight.

\* The BBS will now check to see if the "LZH" and "UnLZH" executable exists before attempting to unARC message packets. Note: You must add the path to these gadgets (if you have not already).

---

eg:  
C:Lha -m -N -q a

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## 1.23 FidoNet mail distribution:

This window could be nick named the "Post Office". This is ←  
where the  
echo message sections are linked to echo mail "Area" names. FidoNet  
message bundle files contain messages which are categorized into  
areas. An "Area" is a name or tag given to each message, so that  
message importing programs (tossers) can sort the InBound messages  
into the local BBS message base. This window also defines  
destinations and passwords of FidoNet systems. Two hundred entries  
can be made, which should be plenty for most configurations. The  
"FidoNet dialer" requires a destination address to be defined. If  
not, the "FidoNet dialer" will not respond to your dial requests.  
Pseudo section numbers of 101, 102 and 103 are used to link a phone  
number with a destination address. Section 101 means phone number 1.  
Section 102 means phone number 2. Section 103 means phone number 3.  
When dialling a remote FidoNet system, the destination address must  
match the remote system's address to begin the FidoNet session. If  
not, the session will abort. Here are descriptions of the gadgets in  
this window:

**Sect:** (Section) This gadget contains the echo message section you  
wish to link with the "Area" (see below). The echo message section  
must have the "Ech" flag turned on. It can also contain a pseudo  
section number for the "FidoNet Dialer" (see above).

**Area:** This gadget contains the "Area" name of the messages you wish  
to link with the above echo message section. You can define your own  
"Area" names if you wish to configure a private or new "Area", or if  
you wish to use an existing "Area" then you can obtain the available  
"Area" names from your network co-ordinator. This gadget must be  
blank when defining a phone number destination address. "Area" names  
are always UPPER case.

**Dest address:** (Destination address) This gadget contains the  
FidoNet destination address for new and imported messages, or the  
FidoNet destination address of a phone number (see above). The  
destination address is in the format Zone:Net/Node.Point. This  
address would normally be your Hub, or if you are configured as a Hub  
then the destination address would be the FidoNet systems that you  
support. Note: If you are configuring a Hub then you will need a  
destination address for each FidoNet system that is to receive that  
"Area" (see above). Therefore, one "Area" could have multiple  
destinations.

**Password:** This gadget contains the password that the calling system

---

with the same FidoNet address as the FidoNet destination address, must have before your BBS will send their files. When configuring a phone number entry, this is the password that your BBS will send the remote FidoNet system (sections 101 to 103). Passwords are not case sensitive.

LZH: (Lharc) This gadget is used to turn on the archiving of OutBound message bundle files. The BBS uses the program "Lharc" to perform the archiving (see "FidoNet configure"). The OutBound message files can be archived at two different times. They can be archived before the BBS dials a remote FidoNet system with the "FidoNet dialer". In which case this gadget would be turned on for the phone number entry. They can also be archived at the end of a "Message import". In which case this gadget would be turned on for a echo message section number entry. Only the message bundle file for the above destination address is archived when this gadget is turned on. The BBS will generate a new archive for a destination once a day, all archiving on the same day will be added to the existing archive.

Top/Btm gadget: (Top/Bottom) Click on this gadget to move to the first ten and last ten entries.

Changes from version 1.00 to version 1.10:

\* A bug fixed in the "FidoNet mail distribution" window when using a section number bigger than 103.

\* A "Goto" gadget has been added to the "FidoNet mail distribution" window. Works in the same way as above.

Changes from version 1.18 to version 1.20:

\* The "FidoNet mail distribution" window now has optional BBS addresses and optional origin lines. An "Old" file name flag has also been added for systems which do not support 4 dimension file names (IBM crap). Note: When using the "Old" file name flag be sure to set the flag for all entries of that destination address (this will probably become automatic in the next version). When using optional origin lines the BBS will use the optional origin text when assembling the message for that destination. Therefore not only can you have a different origin line for each message section, you can also have different origin lines depending on the destination (pretty good a?). When using optional BBS addresses the optional BBS address will be used for that destination address. When an incoming FidoNet system calls your BBS, it's address is looked up in the "FidoNet mail distribution" window, if it is not found then the normal BBS address is used. ←

If the destination address is found and you have specified an optional BBS address, then your BBS uses that optional BBS address as an alias when exchanging "Hello" blocks. ie. your BBS can belong to several different "Nets" using a different BBS address for each. Note: When using optional BBS addresses be sure to enter the same optional BBS address for all entries of that destination address.

Changes from version 1.20 to version 1.21:

\* The "Old" file name flag in the "FidoNet mail distribution" window is now automatic ie. it will turn on all "Old" flags for every entry of that destination address.

---

Changes from version 1.33 to version 1.40:

- \* Bug fixed: The "AREA" would match up with partial area strings.
- \* All OutBound destinations now have their own OutBound sub directory. The OutBound directory for a particular destination has a name made up from the "Zone.Net.Node.Point" values. Note: The "OutBound files file path" gadget has been renamed to "OutBound directories path" in the "FidoNet configure" window. The BBS automatically creates the "Personalized" OutBound sub directories on start-up, or it can be done manually by selecting the "Create dirs" gadget in the "FidoNet mail distribution" window. To send files to a destination it is as easy as copying the file in to the appropriate OutBound sub directory. Note: If the "Old" gadget is turned on for that destination, then the files are renamed to the IBM file name format upon "Pick-up". This means that file names may be truncated if they are too long for the IBM format.

Changes from version 1.42 to version 1.43:

- \* NetMail will now be routed if the destination address exists in the "FidoNet configure" window (including attached files).

Changes from version 1.43 to version 1.50:

- \* You can now define optional addresses and origin lines for NetMail. Use section "0" with no "Area" and the appropriate destination address in the "FidoNet mail distribution" window.

Changes from version 1.50 to version 1.51:

- \* The BBS now has improved FidoNet point handling.

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## 1.24 PULL DOWN MENU FUNCTIONS

The pull down menus are divided into three menus. The " ←  
BBS" menu contains general BBS functions. The "Sysop" menu contains functions to do with maintenance and editing of the data files (normally performed by the Sysop). The "Config" menu contains all the functions associated with configuring the BBS and BBS menu (see "Configuring the BBS"). Some or all of the pull down menu functions will be ghosted when either that function is in use, or when it might clash with another function in use. Some functions are only used when a user is logged in. If a "Carrier Detect" signal is received from the modem while any of the pull down menu functions are activated (including a local login), the BBS will notify you that a carrier has been detected. You can either ignore it, or finish what you are doing and let the BBS answer the incoming call as usual. If you do not want to be bothered by incoming calls then it is best to turn off your

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modem so that callers know that the BBS is offline. This also stops the modem from accepting the call and wasting the caller's money. The following is a description of each pull down menu function as seen in the menus:

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## 1.25 Local login:

This function starts a local BBS login session. The local login is the same as logging in from remote, except the routines associated with the modem and serial port are deactivated. Hence the speed at which the text is printed is very fast ie. there is no waiting for data to be sent out the serial port. This will probably be the most used function as it is used to test and view the BBS menus when first setting up the BBS, and in reading and answering messages. The "Twit" function is the quickest way the to exit the local login (see below).

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## 1.26 Chat on/off:

This simply turns the BBS menu function 3 - Chat call, on and off. At start-up this function is default on. You can toggle the chat call function on and off at any time, even when a user is logged in. If the chat call function is switched off then the "Sysop is busy" (line 39) message will be given when the user tries to page the Sysop. This function overrides the "Chat on" and "Chat off" time slot in the "System configure" window. Note: A Sysop (access 5000) can page the local Sysop at any time regardless of the time or this flag.

Changes from version 1.43 to version 1.50:

\* Option "-c" can now be used in the argument line at the CLI when running M A X's BBS, to turn off chat.

eg:  
Run MAXsBBS -c

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## 1.27 Chat interrupt:

This function is only active when a user is logged in. When  $\leftrightarrow$   
a user  
has logged in you can use this function to chat interrupt at any time.  
This activates chat mode so that you can type to the user and they can  
type back to you. You can also start the chat mode by hitting any key  
while a user is paging the Sysop using the BBS menu function 3 - Chat  
call. To exit chat mode the local Sysop must hit the <Esc> key.  
Note: The user can not exit chat mode. After exiting chat mode the  
BBS will continue from where the chat interrupt took place. When  
typing to each other the character's colour changes depending on who  
is typing. It is good practise to hit <Return> twice to signal to the  
other that you have finished typing and it is now the other person's  
turn.

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## 1.28 Countdown:

This function is only active when a user is logged in. If  $\leftrightarrow$   
for some  
reason you need to force a user off the BBS but wish to do it in a  
nice way, then use this countdown function. Once activated, the BBS  
will give a warning message to the user (line 26), and the time set in  
the "System configure" window's countdown gadget will then become the  
user's time remaining. The system will hang-up when the time  
remaining reaches zero (0). The time that the user had remaining  
before the countdown function was activated will be restored when they  
call back (or a new daily limit if it is a new day). The countdown  
can be reversed, in which case the user's original time remaining is  
restored, and an appropriate message is given to the user (line 27).

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## 1.29 Printer/Output:

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This function is only active when a user is logged in. It ↔ opens the printer/output file for output. When selected, a window requesting the filename of the output file is opened. The default output filename is "PRT:", this is the AmigaDOS name for the printer. You can also send the output to disk by changing the filename in the requester. Once the printer/output file is open, everything seen on the BBS screen will be captured on disk or sent to the printer. Selecting this function again, or when the login session is terminated, will turn the printer off or close the output file. This is handy when you want a hard copy of a message, or you could even monitor a complete session (if you have enough paper).

Changes from version 1.12 to version 1.14:

\* When printing the contents of the serial buffer after a carrier is detected (show connect info) the BBS now ignores line feeds.

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### 1.30 Text import:

This function is only active when a user is logged in ( ↔ yourself). It is used to import text into the BBS from any text file. It can be used at any time during login (including chat mode) but is intended to be used with the message editor. Importing text is similar to hitting a macro key except the text is taken from an external text file. If you are using WorkBench 2.0 (or higher) the BBS will make use of the "asl.library" file requester to select a text file. If the "asl.library" is not available then you will have to type in the filename and path into the small filename gadget that appears when you select this function. Text will continue to be imported until the end of the text file is reached, or you re-select this function.

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### 1.31 TWIT:

This function is only active when a user is logged in. ↔ Selecting this will force the BBS to hang-up or "Twit" the current user. This has been named "Twit" because it is intended to be used when a user or

"Hacker" is abusing your BBS. This is also a quick exit from the local login.

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### 1.32 \* Reserve BBS:

Changes from version 1.33 to version 1.40:

\* You can now "Reserve" the BBS for a particular user. Use the pull down menu function "Reserve BBS" and enter the name of the user you wish to reserve the BBS for. The BBS will tell you if the user does not exist. To cancel a reserve just re-select it (the check mark will toggle).

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### 1.33 Caller log:

All users except Almighty Sysops (access 10000) are recorded ↔ in the caller log file. The caller log helps you locate a possible "Hacker" or to see if there has been any DOS read/write errors. Select this function to view the caller log. Use the arrow gadgets to move up and down in the caller log. The log is viewed starting from the user most recently on the BBS. The number of records in the log is specified in the "System configure" window, when this value is changed the log file is restarted. Use the "Restart" gadget to restart the log file. Use the "Top/btm" gadget to move to the top or bottom of the log. The caller log contains the following information:

User's name  
Logon date & time  
Logout date & time  
Exit mode (see below)  
Time used (minutes)  
Number of messages read  
Number of messages left  
Number of uploads  
Number of downloads  
Connection bps rate  
If attempted to page the local sysop (funct 3)  
If used the CLI (funct 28)

The user can exit the BBS in one of the following ways:

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Normal (funct 1)  
Slow bps rate (minimum bps rate)  
User file full (new user)  
Lost carrier  
Security violation  
Locked out (access = 0)  
Out of time  
Sleep disconnect  
Twitted!  
System event (FidoNet)  
Forced hangup (auto insert %X)  
DOS read error  
DOS write error  
Low memory error

If a user has an access of zero then the user is locked out of the BBS, any attempts to login will give the locked out message and the BBS will hang-up! A security violation can occur when a user enters the wrong password three times, or when an attempt is made to upload or download a file with the filename "File.data". This protects the BBS data file from being over written by another file with the same filename (Hackers). If a DOS read or write error has occurred then it is possible that the message base or file library has been corrupted! Use the pull down menu functions "Optimize messages" and "Check files" in the "Sysop" menu to check the data files (see below).

Changes from version 1.00 to version 1.10:

\* A proportional (slider) gadget has been added to the "Caller log" window.

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## 1.34 About. . .:

This function will open a window with information ←  
about the  
version of M A X's BBS you have. Included in this window is the  
available "Chip" and "Fast" memory your system has. If memory becomes  
low you may get low memory errors. In which case you will have to  
free up memory or buy more RAM!

Changes from version 1.50 to version 1.51:

\* Have you noticed the change in the "About..." window yet (Hint: Turn  
up the volume)? :-)

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### 1.35 Iconify:

This function will close the BBS screen and open a small window in the WorkBench screen. When the BBS is iconified it can still be used by users! To the user the BBS will look no different whether it is iconified or not. The advantage of iconifying the BBS is that "Chip" memory is freed up, and the serial output is faster because the BBS does not have to update the BBS screen. When a user has logged on their name will appear in the small WorkBench window. Click on the "Close window" gadget to close the small WorkBench window and to re-open the BBS screen. The screen may look incomplete at first because all screen output is lost when iconified. You will have to wait for the screen to be redrawn, especially when the user is using the full screen editor. You can iconify and re-open the screen at any time, even during a file transfer. Note: During a file transfer or "Message import" the BBS may not respond to your request straight away, but it will eventually (click once and wait).

Changes from version 1.18 to version 1.20:

\* The iconify window has been enlarged to fit the node number before the user name and the current menu function after the user name. To insure that the iconify window can open, because it is now wider, the stored iconify window position is zeroed (see above).

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### 1.36 \* Sleep:

Changes from version 1.00 to version 1.10:

\* A pull down menu function "Sleep" has been added. This activates sleep mode which closes the serial device and stops the BBS clashing with other programs using the serial device eg. another M A X's BBS or JRComm. You can use the option "-s" in the command line to start the BBS in sleep mode.

eg:

Run MAXsBBS -s BBS:MAXsBBS.config

\* The "Warning: Carrier detected" requester now gives you the option to put the BBS into "Sleep" mode. This comes in handy if you start up a local node to answer messages and forget to use the "-s" option when

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someone is online.

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### 1.37 Quit:

Selecting "Quit" will bring up a requester to confirm that you really wish to exit the program. Selecting "Whoops!" will abort the quit request and return you back to the BBS, just in case you selected "Quit" by mistake. Selecting "Okay" will cause the BBS to shut down and return to WorkBench or the "CLI" where it was originally started.

Changes from version 1.33 to version 1.40:

\* The BBS now does a CRC check on the config file to warn you of any un-saved changes.

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### 1.38 Add 15 mins:

This function is only active after a user has logged in. If you wish to increase the current user's time remaining without interrupting the user, then use this function. Each time you select this function you will add fifteen minutes to the user's time remaining. A maximum of 10000 minutes still applies, exceeding this will have no effect. The time remaining will be set back to the daily limit when the user calls back the next day. This function does not effect the user's daily time limit.

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### 1.39 Sub 15 mins

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\* A pull down menu function "Sub 15 mins" has been added to complement  
"Add 15 mins". It will hang up on users with fifteen minutes or less...

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## 1.40 Online edit:

This function is only active when a user has logged in. When selected, it will freeze the current user and open a window similar to the "User editor" (see below). You can edit any part of the current user including their name! As this window is similar to the "User editor" the gadgets are not described here (see "User editor" below). Once you have finished editing the current user, click the "Close window" gadget to bring any changes into effect. The user can then continue what they were doing before the interruption.

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## 1.41 User editor:

This is a very powerful user editor. When selected, the user file is loaded into memory and the "User editor" window is opened. All editing of the user file is done in memory for speed, therefore a large user file is not recommended for standard 512K byte systems. The size of the user file depends on the "Maximum users" in the "System configure" window. Once you have finished editing the user file either hit "Save" to save the changes, or hit the "Close window" gadget to abort all changes. There must be at least one user (you).

The "User editor" window also displays the date and time that the user was last on, and the total number of users deleted (see the "Inactive" gadget below). The following are the descriptions of the gadgets in this window:

Up and Down arrows: Use these gadgets to move to the next user. The user file is in the logon order, ie as new "Guest" users logon to your BBS they are appended to the user file.

Name: This gadget contains the user's name. The user names must be unique, ie. no two users can have the same name. If the BBS finds a

user with the same name then the requester "User already exists" will appear and you can either "Edit" the name, or "Delete" that user. The name field has a maximum of 40 characters.

Suburb: This gadget contains the user's suburb. You may wish to include a street name and number, it is up to you, ie. change line 14 in the "Text editor" window. The suburb field has a maximum of 39 characters.

Password: This gadget contains the user's password. It is not recommended that you change the user's password unless asked to by the user. Sometimes a user forgets their password. The easiest way to resolve this is to delete this user so that they can re-logon. The password is always UPPER case. When the user enters their password at logon it is not case sensitive. The password field has a maximum of 20 characters.

Phone #: This gadget contains the user's phone number. Edit line 15 in the "Text editor" window to ask the user to include area codes if you wish. The phone number field has a maximum of 20 characters.

Computer: This gadget contains the user's description of the computer they use. You can tell what files a user can use from the type of computer they have. Sometimes users complain that they can not use a file from your file library, a quick look here might reveal that the user is trying to use an Amiga file on an IBM! The computer description field has a maximum of 20 characters.

Time remaining: This is the time remaining of the user's daily time limit. The time remaining will be refreshed to the daily limit automatically when the user logs on on a new day. Editing this field will only be in effect up until midnight on the day the user was last on. Maximum is 10000 and is in minutes.

Access level: The access level of the user must be the same or higher than the access level of a BBS menu function before the user can select that function. The access level of the user must be the same or higher than the access level in the "Sections configure" window before the user can use that section. An access level of zero (0) means the user has been locked out of the BBS. The file "LockOut.text" is sent to the user then the BBS will hang-up when a locked out user attempts to logon. An access level of 5000 or more means Sysop access! A Sysop has certain privileges over normal users. Here is a list:

- Read all private messages in section 0
- Delete any message
- Lock messages
- Forward messages
- Edit users with lower access levels (see BBS menu funct 26)
- Download and read a "New" file
- Delete any file (see BBS menu funct 21)
- Download and upload at any time.
- Page the local Sysop at any time.
- Sees all real names when alias' are used

An access level of 10000 (maximum) means Almighty Sysop!. An Almighty

Sysop has all of the above privileges plus:

Not recorded in the caller log  
Edit any user (see BBS menu funct 26)

**Time limit:** This is the user's daily online time limit. When a user logs on on a new day this value becomes their time remaining for the whole day. If the user logs on on the same day, the time remaining from the last login is used (see "User defaults"). Maximum value of 10000 and is in minutes.

**D/U ratio:** (Download/Upload ratio) This is a download versus upload ratio to help prevent users downloading files and not contributing any uploads (file hogs). If a user tries to download a file when their number of downloads versus uploads is higher than their "D/U ratio" value, then the message "You have exceeded your D/U ratio" (line 173) is given. A value of zero (0) disables this check. Maximum of 10000 and is in actual number of successful files transferred.

**Lt ms rd:** (Last message read) This is the highest message read by this user. It is used by the BBS as a reference to check for new messages, ie. higher message numbers. Note: This value is only stored at a normal log out (see BBS menu function 1 - Log out). If the message base has been lost or restarted then a global user edit (see below) should be done with this value to set it to the highest message in the BBS.

**Screen length:** This is the number of lines per page for this user. This is currently only being used in conjunction with the "Pause" flag (see below). The BBS counts the number of lines since the last input or pause. When it reaches this value it will pause. This value ranges from 10 to 200.

**Calls:** This is a count of the total number of calls this user has made. Used for statistics only. Note: A local login is not counted as a call.

**Messages:** This is a count of the total number of messages written by the user. Used for statistics only.

**Uploads:** This is a count of the total number of successful files uploaded to the BBS. Used with the "D/U ratio" (see above).

**Dnloads:** This is a count of the total number of successful files downloaded from the BBS. Used with the "D/U ratio" (see above).

**Time bnk:** (Time bank) This is the user's time bank balance. The time bank is a means where the user can deposit and withdraw time to and from their daily time limit. See BBS menu functions 29 to 31. This value is in minutes and has a maximum of 10000.

**Protocol:** This is the user's default file transfer protocol. This value can be use when a user wishes to use the same file transfer protocol all the time, and therefore does not have to select it each time they use BBS menu functions 23 and 24. Here is a list of values and the associated protocol:



- 0 - No default (BBS will ask)
- 1 - XModem
- 2 - XModem CRC
- 3 - XModem 1K
- 4 - YModem (batch)
- 5 - YModem-g
- 6 - ZModem

Future: Undefined and reserved for future use.

Rd: (Read access flag) This is the read access flag which specifies whether or not a user can read messages (regardless of their access level).

Wr: (Write access flag) This is the write access flag which specifies whether or not a user can write or leave a message (regardless of their access level).

Up: (Upload access flag) This is the upload access flag which specifies whether or not a user can upload files (regardless of their access level).

Dn: (Download access flag) This is the download access flag which specifies whether or not a user can download files (regardless of their access level)

Bltn: (Bulletin read flag) This flag is set by the BBS when the user has read the BBS news bulletin. If this flag is not set when the user logs on, then the news bulletin text file is sent to the user and this flag is set. Use this flag and the "Global" edit gadget (see below) to force all users to read a new news bulletin.

ANSI: (ANSI on/off flag) This flag is set by the user to tell the BBS whether or not to strip the ANSI colour codes from the text.

FSE: (Full Screen Editor flag) This flag is set by the user to tell the BBS whether or not the user wants to use the full screen editor to write messages. Some terminal programs do not support all the ANSI codes required by the full screen editor. See the full screen editor help file called "FSEHelp.text".

Pause: (Pause flag) This flag is set by the user to tell the BBS whether or not to pause after every full screen (see "Screen length" above).

Cls: (Clear screen flag) This flag is set by the user to tell the BBS whether or not to send the clear screen code "Form Feed" (^L) to the user. Note: The full screen editor forces clear screen codes.

Lck: (Locked user flag) This flag is used to stop a user from being deleted when using the "Inactive" gadget (see below).

GFD: (Get File Descriptions) This flag is set by the BBS when a file has been uploaded by one of the batch file transfer protocols (YModem or ZModem). It is then reset when the user has typed in a description for all files uploaded. This is useful for when the

carrier is lost after the user manages to successfully upload one or more files. When the user logs on next and this flag is set, the BBS will search the file library for any files that have been uploaded by this user and are missing the file description. The BBS will then ask for the missing file descriptions. It can also be set by the Sysop to force a check.

**Mask:** These flags are used with the "Global" edit gadget (see below). When any one of these "Mask" flags are set, the flag or value next to it will become the global setting or value when the "Global" gadget is clicked. Flags or values with their "Mask" flag turned off will not be changed in the global edit.

**Comment:** This gadget contains a comment, or anything about this user. This field is intended for your use only but it can be used along with the auto insert feature "%j" (see "Customizing the BBS") to give individual and unique "one liners" to the user. The comment field has a maximum of 99 characters.

**Top/Btm:** (Top/Bottom) This gadget is used to get to the top of the user file if you are not already there, or to the bottom of the user file if you are at the top. This is useful to get to the top of the user file before performing a search (see below).

**Search:** This gadget will do a search from the current position to the end of the user file for a match with the text in the "Search:" gadget box. The search is not case sensitive and will search all text fields, including the comment. Partial strings can be used.

**Guests:** This gadget will do a search from the current position to the end of the user file for users with the "Guest" access level (as defined in the "User defaults (Guest)" window). Use this gadget to find and check new users.

**Member:** This gadget will set all the values and flags defined in the "User defaults (Member)" window into the current user's file. Use this gadget to give any user a Member's status with one click!

**Add:** This gadget will append a new user to the user file. The new user will automatically have a Member's status, and you will have to enter the user's name and details.

**Delete:** This gadget will delete the current user from the user file. It may be more appropriate to lock a user out (access 0) than to delete them. Once deleted, the user will have to re-logout as a Guest. Note: You can not delete the first user (you).

**Inactive:** This gadget will delete all inactive users. An inactive user is one that has not logged on the BBS for the amount of days in the "Inactive:" gadget box. The number of days is from the current system date, so be sure that your system clock is set to the correct date! The default inactivity is ninety days (three months). The "Lock" flag (see above) is used to stop a user from being deleted as inactive (the user may be on holidays or their computer is being repaired). The "Total deleted:" number is how many users were deleted by this function plus the number of users deleted by the "Delete" gadget (see above) if any.

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**Global:** This gadget will do a global edit of all users. The "Global" edit gadget is used in conjunction with the "Mask" flags (see above). When you do a global edit, each "Mask" flag that is turned on will have the flag or value next to it become the same for every user! You can do a global edit on the user's access level, time limit, download/upload ratio, last message read, time bank value and all the flags.

**Purge:** This gadget will purge or delete all users except the first (you) in the user file. It will also reset the "Total calls" count to zero.

**Save:** This gadget will save all changes (if any) permanently on disk. If you wish to exit the "User editor" without saving the changes then hit the "Close window" gadget instead.

Changes from version 1.12 to version 1.14:

\* The "User editor" inactive days count is now stored in the config file. To set your own default inactive count, change it in the "User editor" and select "Save all".

Changes from version 1.16 to version 1.18:

\* "Max time bank" has now been moved into the "User editor". This allows you to specify the maximum time bank balance the individual user can obtain. The "User defaults" window now has the "Max time bank" default value gadgets for Guests and Members. This value is in minutes and ranges from 0 (no time bank) to 10000.

Changes from version 1.21 to version 1.30:

\* A "User.index" has been added to speed up user file searches. To create the index file start the "User editor" and hit "Save". The BBS will default to the old user file search if the "User.index" file is missing.

Changes from version 1.33 to version 1.40:

\* The "User editor" now double checks to see if someone is online before allowing you to save deleted users.

\* A "Junk mail" flag has been added to the "User editor" window. The "Junk mail" flag allows the user to search for messages addressed to "All" on the logon mail search. The new BBS menu function 36 - Set junk mail flag, has been added to allow users to set their own "Junk mail" flags.

Changes from version 1.50 to version 1.51:

\* The "User editor" has an expanded "Last message read" gadget which now has a maximum value of 9,999,999.

\* The BBS now allows files to be attached to messages. The flag "AFA" (Allow File Attaches) has been added to the "User editor" and the "User defaults" windows. A user is allowed to attach a file to a message if their "AFA" and "Upld" flags are turned on, in which case the message editor menu text file "MsgEdMenu2.text" is displayed. The "Attached files

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file path" gadget has been added to the "System configure" window. File attaches are stored in this directory with the message number prefixed to the file name. Once a file has been attached to a message, the subject of that message then becomes the file name of the attached file. When file attaching at a local login, the "reqtools.library" file requester is used to select the file. When a message with an attached file is being read, the user is allowed to "(G)rab" the attached file if the message is addressed "To" or "From" them, or when it is addressed to "All". A sysop (access 5000) can "(G)rab" any file attach. An attached file is only deleted when the user to whom the message is addressed to has "(G)rab"ed the file. Note: A file attached to a message addressed to "All" is not deleted when "(G)rab"ed. File attaches are compatible with other FidoNet systems. This allows users to send and receive "Echo" and "NetMail" messages with attached files over the FidoNet network.

Changes from version 1.50 to version 1.51:

\* Bug fixed: When the user sets their "Junk mail" flag, no matter what they selected it would always be turned on.

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## 1.42 Files editor:

This is a powerful file library editor. When selected, ←  
the file  
library data file is loaded into memory and the "Files editor" window is opened. All editing of the file library data file is done in memory for speed, therefore a large file library is not recommended for standard 512K byte systems. The size of the file library data file depends on the "Max" value for each file section, added together in the "Sections configure" window. A file library of 300 files would need a data file of about 60K bytes. Once you have finished editing the file library either hit "Save" to save the changes, or hit the "Close window" gadget to abort all changes. You must have at least one valid file section (see "Sections configure") to use this editor. When you first select the "File editor" a check of the sections count is done. If a discrepancy is found a "File sections count error" requester will be given. A "File sections count error" can occur when the data file is corrupted due to a DOS read/write error; you will have to restart (purge) the file library.

The "Files editor" window displays the name of the section that the file is in. If a file is deleted then the section name will change to "\*\* Deleted \*\*". Files which are deleted by the BBS menu function 21 - Delete a file, are deleted from disk at the time of that function. Files which are deleted using the "Delete" gadget (see below) are not deleted on the disk until the "Save" gadget is used. This gives you a chance to change your mind. All deleted files will be removed from the file library data file when the "Save" gadget is used. This window also displays the time that the file was uploaded, the size of

the file and the number of times that the file has been downloaded. Note: If a file is "New" ie. not public, then the download number will be displayed as "New". The two filenames above and below the current file are display and are colour coded as followed:

Cyan - Normal  
Green - Locked  
Yellow - New  
Red - Deleted

The following are descriptions of all the gadgets in this window:

Up and Down arrows: Use the "Arrow" gadgets to move to the next file. The file library data file is in uploaded order, ie. as files are uploaded or added they are appended to the data file.

Section #: This gadget contains the section number. Changing the section number here will move the file to another section, similar to forwarding a message. Only valid file sections can be entered (see "Sections configure").

Lock: (Lock flag) This is the gadget used to roll lock the file. As a file section becomes full ie. maximum files, the oldest file will be deleted to make room for the new file. Set this flag to stop the file from being roll deleted. It also stops the user who uploaded the file from deleting it using the BBS menu function 21 - Delete a file (see "BBS menu functions").

Filename: This gadget contains the filename. If you change the filename of a file in the data file you must remember to change the filename of that file on disk! If you do not match the filename with the filename of the file on disk, the "File not online" (line 164) message will be given when a user tries to access that file. Filenames must be unique and are not case sensitive. The maximum characters in this field is 40.

Description: This gadget contains the description of the file. File descriptions are typed in by the user as they are uploaded. If a file description is missing, which can occur when the carrier is lost during a batch upload, use the "Get File Descriptions" flag (see "User editor"). The "Get File Descriptions" flag will be set automatically by the BBS if the carrier is lost. The maximum characters in this field is 59.

From: This gadget contains the name of the user who uploaded the file. If a file is added (see below) then the Sysop name in the "Text editor" line 0 is used in this field. The maximum characters in this field is 40.

Alias: This gadget contains the alias used by the user (if any). When files are listed and an alias exists, then the alias is used for the uploader's name. The maximum characters in this field is 40.

Top/Btm: (Top/Bottom) This gadget is used to get to the top of the files, or to the bottom of the files if you are already at the top. This is useful to get to the top of the files before performing a search (see below).

---

**Search:** This gadget will do a search from the current position to the end of the files for a match with the text in the "Search:" gadget box. The search is not case sensitive and will search all text fields of each file. Partial strings can be used.

**New:** This gadget will do a search from the current position to the end of the files for "New" files. A "New" file is one that has been uploaded and not cleared using the "Public" gadget (see below). You can make all new uploads public by setting the "New files public" flag in the "System configure" window. All "New" files can not be downloaded or read until made public. This is useful to stop copyright material from being uploaded and downloaded before a Sysop can check/delete it. Note: Sysops (access 5000) can download a "New" file.

**Public:** This gadget will make a "New" file (see above) accessible to normal users.

**Add:** This gadget will add a new file. Added files are appended to the file library data file. If you are using WorkBench 2.0 (or higher) the BBS will make use of the "asl.library" file requester to select a file. If the "asl.library" is not available then you will have to type in the filename. When using the "asl.library" file requester, and the file you have selected is not in one of the three files file paths, then it is automatically copied from the current path into the files file path #1. The file must be found in one of the three files file paths (see "System configure") before you can continue. If not found, the BBS will bring up a requester saying "Can't find that file". You can either "Delete" that file, or select "Whoops!" to edit the filename or select another file. Once the file is found, the BBS will then fill in the size of the file. Files are added to the first valid file section found, it is up to you to move them into the correct file section. You must also type in the description of the file. The Sysop name (line 0) is used as the "From:" name.

**Delete:** This gadget will delete the current file. The section name will change to "\*\* Deleted \*\*" when a file is deleted. The file is removed from the files library data file, and deleted from disk when the "Save" gadget is used (see below). You can effectively un-delete a file by exiting the files editor using the "Close window" gadget.

**Purge:** This gadget will purge or delete every file in the file library! It is used to restart your file library (see "Delete" above).

**Save:** This gadget will save all changes (if any) permanently on disk. If you wish to exit the "Files editor" without saving the changes, then hit the "Close window" gadget instead. Deleted files will be deleted from disk when saving.

Changes from version 1.00 to version 1.10:

\* A proportional (slider) gadget has been added to the "Files editor" window. Just like a file requester...

\* When adding a new file in the "Files editor" if a comment exists with the file been added then it will be used as the description.

Changes from version 1.16 to version 1.18:

\* The BBS now uses a file index for super fast file searching. The file index is also used when listing files. If the file index does not exist, then the BBS will default to the old file search routines. Note: To create the "File.index" file, select the "Files editor" and hit "Save". The "File.index" file is found in the "Files file path" and is protected from being over written by an upload.

Changes from version 1.18 to version 1.20:

\* File names can now use the characters "\_" and "&".

Changes from version 1.33 to version 1.40:

\* The "Files editor" has been changed. The "Description" gadget has been extended and can now display most of the file's description text. A "Sort" gadget has been added. This allows you to sort the files into section number order. Hit "Sort" again to sort back to date order. Note: If you have sorted the files into section number order, hitting "Save" will re-sort the files back to date order before saving the data file. A "Purge section" gadget has been added. This gadget allows you to purge the entire current file section. You can now also use the keyboard keys:

"P" - Public  
"D" - Delete  
"Up arrow" - Moves up one file  
"Dn arrow" - Moves down one file  
"Left arrow" - Moves file to previous file section  
"Right arrow" - Moves file to next file section

Note: You must click in a non-gadget area in the "Files editor" window to activate keyboard control. You can now also "un-delete" and "un-public" files by hitting that gadget again.

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## 1.43 Check files:

This function performs a check of your file library. When selected, the file library data file is loaded into memory and a sections count check is made. If a discrepancy is found a "File sections count error" requester will be given. A "File sections count error" can occur when the data file is corrupted due to a DOS read/write error; you will have to restart (purge) the file library (see "Files editor" above). After the sections count check, the "Checking files..." window is opened. As each file is checked, it's name and size are

shown in this window. The filename is firstly checked to see if it is unique. If not, a requester "File already exists" will be displayed, click on "Continue" when ready. A check is then made to see if the file actually exists in one of the three files file paths. If not, a requester "Can't find that file" is displayed. You can either "Retry" or skip this file and "Continue". A file may not exist because it has been deleted from disk, or the file has been renamed on disk but not in the data file, or visa versa. A file size check is also made to check that the size of the file on disk is the same as the file size in the data file. If the file sizes do not match, then a "File size has changed" requester is given. You can then either skip this file and "Continue", or click on "Fix it!" to correct the size of the file in the data file. The file size may change if the file has been over written, or if the file was archived (compressed) after it was uploaded. A check is now made to see if the file size is too large as specified in the "System configure" window. In this case a "File is too big" requester warning is given, hit "Continue" when ready. After the file check is completed, changes in the data file are saved on disk (if any). Another final check is then made to find lost files that may exist in one of the three files file paths, but not in the file library data file. A requester "Lost file" will let you know if any are found, click on "Continue" when ready. Hit the "Close window" gadget at any time to abort the file check.

Changes from version 1.00 to version 1.10:

- \* "Delete" options have been added to the requesters when checking files.

Changes from version 1.18 to version 1.20:

- \* Bug fixed. When checking files and a requester "File already exists" pops up and you hit "Delete", it would sometimes cause a file section counts error. All fixed now.

Changes from version 1.33 to version 1.40:

- \* The "Check files" now shows "Path", "Timer" and "To go/Found" information fields. Note: The path of the current file is only shown once it is found and therefore tends to "Flash".

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## 1.44 Optimize messages:

This function will load all the message files into memory to be optimized. Because of the nature of all disk file systems, any file on a disk can grow in size but never shrink unless completely over written by a new file. Therefore when new messages are saved in the data base, the BBS will try to store the message in the space taken up by a deleted message. If the BBS can not find a space big enough to



fit the message, or there are no deleted messages, then the message is appended to the message files. The message files are optimized by loading them into memory, removing all deleted messages and unused space, and then saving them back on disk. Of course the larger the message base the more memory required to use this function. When the optimizer has finished, a requester will let you know how many bytes of disk space was saved (if any). The message base is also checked for possible corruption due to DOS read/write errors, if this is the case then the message base will have to be restarted.

Changes from version 1.21 to version 1.30:

\* The message optimizer has been extended. A bubble sort of the data file is now also performed to sort the data file into message number order. As messages are read in forward or reverse order this decreases the number of seeking the disk drive, which contains the message files, has to do. When optimizing messages the "DTR" signal is dropped to stop the modem from answering any incoming calls.

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## 1.45 \* PERGE ATTACHED FILES

Changes from version 1.33 to version 1.40:

\* The pull down menu function "PURGE ATTACHED FILES" has been added. This function opens a window allowing you to delete attached files. The "Lost" gadget will delete file attaches that are attached to a missing or deleted message. The "Old" gadget will delete file attaches that are older than the number of days specified in the "Old:" gadget. The "Restart" gadget will delete ALL file attaches.

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## 1.46 PURGE MESSAGES:

This function will purge all or parts of the message base. When selected the "PURGE MESSAGES" window is opened. All deleted messages can not be restored, so use this function with caution. This function would normally be followed by the "Optimize messages" function (see above). The following are descriptions of the gadgets in this window:

"Section:": This gadget contains the message section that the

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"Received" and "Section" gadgets (see below) act on.

**Received:** This gadget will delete all messages that have been received or read by the user that they are addressed to. It will only effect the section that the "Section:" gadget (see above) contains. This is useful to clean up the private message section (section 0).  
**Note:** Locked messages will not be deleted.

**Section:** This gadget will delete an entire message section. The section is specified in the "Section:" gadget (see above). This is useful if you rename a message section, or wish to remove an inactive message section.

**Restart:** This gadget will restart the message base. All messages are lost! Use with caution.

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## 1.47 Force FidoNet:

This menu function will bring up a sub menu with the phone number you wish to force. The BBS will normally auto dial your FidoNet phone numbers at the specified time (see "FidoNet configure").

Changes from version 1.41 to version 1.42:

\* The BBS will now abort a FidoNet session if it can not delete the OutBound file which was just sent.

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## 1.48 Force execute:

This menu function will bring up a sub menu with the program number you wish to force. The BBS will normally auto execute your programs at the specified time (see "FidoNet configure").

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## 1.49 Force msg import:

This menu function will force a "Message import". Normally a ←  
"Message  
import" will be done when a file is received during a FidoNet session. The InBound FidoNet files file path is checked for message bundles. If a message bundle is found it will extract the bundle using "Lharc" (which should be found in your "C" directory) if necessary. It will then read in each message bundle and process the messages contained in the file, according to the "FidoNet mail distribution" window. The "Message import" will continue until no more message files are found. It will then archive the OutBound message bundles using "Lharc" if required (if any). The program "Lharc" is available from most good Amiga BBS's and is written by Paolo Zibetti. M A X's BBS was tested with "Lharc" version 1.30 but should work with versions 1.30 and later. During a "Message import" the "DTR" signal is dropped to prevent the modem from answering any incoming calls.

Changes from version 1.16 to version 1.18:

\* The message importer now accepts variable date string lengths (19 and 20 bytes). This change was made because Rikard Thulin in Sweden sent me a sample message packet which did not work with M A X's BBS. I found that the date strings were only 19 bytes wide but according to my FidoNet docs they should always be 20 bytes wide...

Changes from version 1.21 to version 1.30:

\* When importing NetMail (private messages) the BBS will check the user file to see if the user that the message is addressed to exists before storing the message. This stops your section 0 from being filled up with useless messages.

Changes from version 1.33 to version 1.40:

\* The "Message importer" now checks for duplicate messages by using a 32 bit CRC table. This allows you to abort and then continue a message import without having to worry about importing duplicate messages. Note: The CRC table is only valid up until a completed message import session, and will be lost if you abort a message import and then "Quit" the program.

\* Bug fixed: Message error code #9 now works correctly.

Changes from version 1.50 to version 1.51:

\* The "Message import" window now has an extra count added (0/0/0). This new count is the number of exports ie. Messages/Imports/Exports.

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## 1.50 CONFIG Menu Functions

See the chapter "Configuring the BBS" for the use and description of this pull down menu. ↔

Changes from version 1.16 to version 1.18:

\* When selecting pull down menu functions "Load all" and "Save all" the BBS will open a confirmation requester in case you selected one by mistake.

Changes from version 1.20 to version 1.21:

\* The asl.library file requester is now used to load and save the config file. For Workbench 2.0 users only.

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## 1.51 BBS MENU FUNCTIONS

The BBS menu functions are the functions available to the users who have logged on your BBS. ↔

The BBS menus are configured in the "Menu editor" window (see "Configuring the BBS"). Each function is numbered and selected by the user with a single key press. All BBS menus have "Hot keys". A "Hot key" means that the key can be pressed while the menu is being printed/sent. As users become familiar with your BBS menus, they can use the "Hot keys" to select the desired function without having to wait for the menu to be drawn. Pressing "Return" will reprint/resend the current menu. Some functions have their own sub menus, in which case the key presses are fixed and can not be changed. The sub menus have text files which can be edited (see "Customizing the BBS"). Some functions require extra parameters to work - these are entered in the "Extra" and "Filename/Name/Dest" gadgets in the "Menu editor". If a function, when selected, just returns (reprints/resends the current menu), then you have probably entered a bad parameter or section. Users must have the same or higher access to be able to select that menu function. Each menu has a separate text file which is what is seen by the user. You can hide parts of menus, or parts of any text file from users depending on their access level by using the "@n" code (see "Customizing the BBS"). Sample menus are supplied with the BBS. You can use these or change them to suit your needs and imagination (see "Customizing the BBS"). All BBS menu functions will accept "S" to stop or "Space" to pause (hit any key to continue) when listing, or printing a text file. The file "MenuFunctions.text" is a summary of the BBS menu functions currently available. Print out this file and have it with you as a quick look-up for editing the menus. The following are descriptions for the BBS menu functions:

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Changes from version 1.16 to version 1.18:

\* When a user is logged on, the local Sysop can select BBS menu functions as though the user is an almighty Sysop (access 10000). ie. all menu selections from remote are limited to the user's access level, but menu selections made on the local keyboard are considered access level 10000.

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## 1.52 Function 1 - Log out:

This function is used by the user to log out and finish the session on the BBS. When selected the "last message read" by the user is stored in the user file. Any other method of exiting the BBS (lost carrier, Twitted etc) will not store/remember the "last message read" by the user. If you are reading your messages quickly, and you do not wish to answer them during this login, then "Twit" yourself so that the "last message read" is not updated. You can return to those messages during your next login. If a user loses the carrier for some reason, they can return to their messages at the next login. This file is printed/sent when logging out: ↔

LogOut.text

Note: Pause is forced off when printing/sending this file and the "LogIn.text" file. The BBS will then hang-up on the user (by dropping the "Data Terminal Ready" signal). Also note that if another program has also opened the "serial.device" in shared mode, then the BBS will not be able to drop the "DTR" signal until the other program closes the "serial.device".

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## 1.53 Function 2 - Goto menu: (Menu #)

This function will "Goto" the menu number in the "Extra" gadget. If the BBS can not find that menu number then it will return to the current menu. This is how you move from one menu to another. ↔

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## 1.54 Function 3 - Chat call: (# of plays)

This function is used to call or page the local Sysop for a chat. If "Chat On/Off" is turned off (see the pull down menu function "Chat On/Off"), then it will give the "Sysop is busy" (line 39) message. If the current system time is not in the time slot specified in the "System configure" window, then the "Sysop is not available, try between..." (line 40) message is given. If "Chat On/Off" is on and is in the right time slot, then the chat sound sample is played. The "Extra" gadget contains the number of times the chat sample will be played. While the chat sample is being played, the local Sysop can hit any key to enter chat mode. To exit chat mode the local Sysop must hit the <Esc> key. If no key is hit and the sample is finished being played then the "Sysop may chat interrupt later..." (line 38) message is given. When a user has paged the Sysop their name will turn red so that you can see that they have tried to call you. Note: Sysops (access 5000) can page the local Sysop at any time.

Changes from version 1.16 to version 1.18:

\* When a user pages the sysop for a chat the user's name not only changes to red but "\*" are now placed around the name. This is so the local Sysop can see that the user has paged the Sysop even in monochrome mode. Same applies when the BBS is iconified.

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## 1.55 Function 4 - Set ANSI flag:

This function allows the user to set their "ANSI" flag. When turned on, the BBS will send all ANSI colour codes. When turned off, the BBS will automatically strip the ANSI colour codes. Forced at first "Guest" logon.

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## 1.56 Function 5 - Set CLS flag:

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This function allows the user to set their "CLS" flag. ↔  
When turned  
on, the BBS will send the "Form Feed" (^L) code to clear the screen.  
When turned off, the BBS will strip the "Form Feed" code and send two  
"Carriage Return"'s instead. Forced at first "Guest" logon.

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### 1.57 Function 6 - Set pause flag:

This function allows the user to set their "Pause" flag. ↔  
When turned  
on, the BBS will pause when the user's screen is full. When turned  
off, the BBS will not pause. Note: You can force a pause using the  
auto insert code "%Z" (see "Customizing the BBS"). Forced at first  
"Guest" logon.

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### 1.58 Function 7 - Set Full Screen Editor flag:

This function allows the user to set their "Full Screen ↔  
Editor" (FSE)  
flag. When turned on, the full screen editor will be used for writing  
messages. When turned off, the normal editor will be used for writing  
messages. Forced at first "Guest" logon.

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### 1.59 Function 8 - Change # of lines per screen:

This function allows the user to set the number of lines per ↔  
screen.  
Used by the BBS to pause when the screen is full. You can only enter  
values from 10 to 200. Forced at first "Guest" logon.

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### 1.60 Function 9 - Change suburb:

This function allows the user to change the suburb field of  
their user file. Forced at first "Guest" logon.

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### 1.61 Function 10 - Change phone number:

This function allows the user to change the phone number  
field of their user file. Forced at first "Guest" logon.

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### 1.62 Function 11 - Change computer description:

This function allows the user to change the computer  
description field of their user file. Forced at first "Guest" logon.

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### 1.63 Function 12 - Change password:

This function allows the user to change their password. The  
password is always invisible, echoed as "." for each character. The BBS will  
ask for the password to be typed again for verification before making



the change of password. Forced at first "Guest" logon.

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### 1.64 Function 13 - Type a file (Filename):

This function will print/send a text file. The filename and ↔  
path is  
in the "Filename/Name/Dest" gadget.

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### 1.65 Function 14 - Type a file without pause (Filename):

This function will print/send a text file without pausing ↔  
for each  
full screen, whether the user's "Pause" flag is set or not. The  
filename and path is in the "Filename/Name/Dest" gadget.

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### 1.66 Function 15 - Print text (Line #):

This function will print/send a line of text from the text ↔  
editor.  
The "Extra" gadget contains the line number. Use only the blank lines  
starting from the last line upwards, because as new upgrades are  
released they will use the next blank line and downwards, and  
therefore will overwrite your text.

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## 1.67 Function 16 - Leave a message (Section, [Name])

This a powerful function. This function will let the user edit and save a message to a message section. The user must have write access (the "Wr" flag) to use this function. The "Extra" gadget contains the section in which the message will be stored. The "Filename/Name/Dest" gadget contains an optional user name for whom the message is for. When selected, if the "Filename/Name/Dest" gadget does not contain a user name then the current user will be asked to enter the name of the user the message is addressed to. The user file is then searched to see if the user exists. If the user does not exist they will be asked to continue or abort. The user will then be asked to type in the subject of the message. After the subject is typed in either the normal editor or the full screen editor will be started depending on the "FSE" flag. A "Carriage Return" on a blank line will take you to the sub menu from the normal editor, or pressing <Esc> twice will take you to the sub menu from the full screen editor. The sub menu contains list, edit, save, abort etc. commands. The sub menu has a text file called:

MsgEdMenu.text

See the message editor help files for descriptions of the sub menu commands and the full screen editor called:

MsgEdHelp.text

FSEHelp.text

Note: The sub menu "(M)ove msg" command will only let the user see and use message sections which the user has access to. If replying to a message in an anonymous message section ie. "To" and "From" flags turned off, then the user is not allowed to move that message into a different message section that may show who the message is to. This is a security measure.

Changes from version 1.42 to version 1.43:

\* Bug fixed. When leaving an echo message and then exporting it, the destination address is now set to the actual destination system's address during the export process.

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## 1.68 Function 17 - Read messages (Section, 100, 101 and 102 = linked)

This a another powerful function. This function will let the user read messages from a message section. The user must have read access (the "Rd" flag) to use this function. The "Extra" gadget contains the

section which the messages are read from. Sections 100, 101 and 102 mean linked message sections, all sections with the "Linked" flag turned on are included in the message read (see "Sections configure"). Section 100 means all linked local message sections. Section 101 means all linked echo message sections. Section 102 means both linked local and echo message sections. Of course, only the sections which the user has access to are used in the linked message sections. When selected the message read sub menu is used to select the order in which the user wishes to read the messages. The first sub menu has a text file called:

MsgRdMenu.text

See the message read help file for descriptions of the first sub menu commands called:

MsgRdHelp.text

The second sub menu seen when the user selects "(S)earch msgs" is called:

MsgSearchMenu.text

When a message is displayed the "From" and "To" fields are optional and are set in the "Sections configure" window. When searching messages the "From" and "To" flags must be turned on to be included in the search. The user has the following options after the message has been printed/sent:

(-) Read previous: (if any) This lets the user read the previous message or the message that the current message is a reply to. Note: If the message has been deleted then the "Message not found" (line 83) message is given. If the message is private (Section 0) and is not addressed to or from the user, then the "Message is private" (line 111) message is given. A "Carriage Return" will return to the original message.

(+) Read reply: (if any) This lets the user read the reply to this message. If there is more than one reply then the BBS will only show the first one it finds. If you wish to read all the replies then select "(T)hreads" from the sub menu. Note: If the message has been deleted then the "Message not found" (line 83) message is given. If the message is private (Section 0) and is not addressed to or from the user, then the "Message is private" (line 111) message is given. A "Carriage Return" will return to the original message.

(B)efore: This command allows the user to go back to the messages that they were reading before. It has a ten message history and when you have reached the tenth message selecting "(B)efore" will only reprint the tenth message. A "Carriage Return" will return to the original message.

(N)ext: This allows the user to continue to the next message in the order selected in the sub menu. A "Carriage Return" will also do the same.

(C)ontinuous: This lets the user read messages continuously without

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waiting for a response from the user. Page full pausing is automatically disabled. This command will continue until the end of the messages is reached, or "(C)ontinuous" is pressed again.

(A)gain: This will reprint/resend the current message.

(R)eply: This will let the user reply to the message. The "From", "To", and "Subject" fields will automatically be filled in. This command is similar to the BBS menu function 16 - Leave a message (see above), the user will return to the sub commands when finished writing the reply.

(M)ark: This will let the user mark/un-mark the current message for later retrieval. Messages are automatically marked when the logon mail search is performed.

(D)elete: This will let the user delete the message. Messages "To" or "From" that user can be deleted by the user only if the "Delete" flag is turned on in the "Sections configure" window, and if the message is not locked. Note: Sysops (access 5000) can delete any message.

(L)ock: This is a Sysop command to roll lock/un-lock this message.

(F)orward: This is a Sysop command to forward a message. This command lets you forward a message to another user and/or message section and allows you to change the subject of the message. Note: You can not forward a message into an echo message section.

(E)dit: This is a Sysop command used to edit the user file of the person who wrote the message. Similar to the BBS menu function 26 - Edit a user (see below).

(S)top: This will let the user stop reading messages and return to the BBS menu.

Changes from version 1.16 to version 1.18:

\* When quoting lines from a message, the quote prefix text line 115 can now contain a "%" to tell the BBS to insert the initials of the user the message is from. If you wish to use the character "%" in the quote prefix, then use two "%" characters (you will only see one).

\* When quoting lines from a message, the user can now enter a range. To enter a range you type in the from line number and the to line number separated by a "-" character.

eg:

```
6-10  Quotes lines 6 to 10.
10-6  Quotes lines 6 to 10.
-10   Quotes lines 1 to 10.
6-    Quotes lines 6 to last line.
-     Quotes lines 1 to last line (whole message).
6     Quotes line 6.
```

Changes from version 1.20 to version 1.21:

\* Bug fixed. When quoting from a message which has the first line blank

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the BBS will not let you quote the last line.

\* Bug fixed. When deleting line 99 (last line) in the full screen editor the BBS will always crash. Not the sort of bug you want hackers to know about!

Changes from version 1.21 to version 1.30:

\* You can now forward a message to an "Echo" message section. The BBS will ask you "If you wish to export this message?" (line 268). The message will be exported with your origin line whether it originated from your BBS or not. Note: You will not be given the option to export a message which you have just quoted from when replying to it. You will have to use the "(A)gain" option to reset the message text.

Changes from version 1.33 to version 1.40:

- \* When forwarding an imported message and then re-exporting it, the original origin line now stays with the message.
- \* The BBS now allows you to quote the origin text from imported messages.
- \* When forwarding a message you can now use a "?" to get a list of section names and numbers. Note: The "(M)ove msg" function in the message editor menu also accepts a "?" for a sections list.
- \* The BBS now allows users to reply to "NetMail". The BBS will ask the user if the destination address is correct. If it is not correct for some reason, then the user can enter the destination address manually.
- \* Users can now hit "S" to stop a message search at any time.
- \* The "(B)efore" message history size has been increased from 10 to 20 messages.
- \* When a user logs onto the BBS the logon mail search is now optional.

Changes from version 1.40 to version 1.41:

\* Bug fixed. When attaching a file to a reply to a NetMail message the attached file would not be copied to the correct OutBound sub directory. You would get a DOS error.

Changes from version 1.41 to version 1.42:

\* Bug fixed. When forwarding a non-imported message to an "Echo" message section and then exporting it, the BBS would not add the Tear or Origin lines to the message text in the OutBound message packet file.

Changes from version 1.42 to version 1.43:

- \* Bug fixed. When forwarding a message with an attached file, the attached file's file name was not renamed to the new message number prefix.
  - \* The BBS will now include internode information in NetMail (if applicable). The BBS will also check for this information when replying to a NetMail message.
-

\* When leaving or replying to a NetMail message the BBS now checks to make sure that the destination sub directory exists. If not, the BBS will ask if you would like to create it.

Changes from version 1.51 to version 1.52:

\* The BBS now checks for a lost carrier during the logon message check.

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### 1.69 Function 18 - List/Search user file:

This function will let the user either list all the users in the user file in alphabetical order, or search for a user by entering a name or text search string. The search is not case sensitive and partial strings are accepted.

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### 1.70 Function 19 - Print caller log:

This function will let the user view the caller log. It is similar to the pull down menu function "Caller log". Note: If an alias is used, then it is possible for a user to find the true name of the user by viewing the caller log.

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### 1.71 Function 20 - List files (Section, 100 = linked):

This function will list the files in a file section. The "Extra" gadget contains the file section. Section 100 means linked sections, all sections with the "Linked" flag turned on are included in the listing (see "Sections configure"). Only the sections which the user

has access to are used in the linked sections. When selected, the list files sub menu is used to select the order in which the user wishes to list the files. The sub menu has a text file called:

ListFilesMenu.text

See the list files help file for descriptions of the sub menu commands called:

ListFilesHelp.text

Changes from version 1.00 to version 1.10:

\* When listing files the description line and the line above have been swapped around. A more logical way to list files.

Changes from version 1.42 to version 1.43:

\* Reverse file list option has been added to the file list sub menu. The new sub menu and help text files are included in the upgrade archive.

Changes from version 1.43 to version 1.50:

\* Added "Toggle list mode" to list files sub menu. This allows the user to toggle between normal file list and short file list modes. Short file list mode only list the file name and description.

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## 1.72 Function 21 - Delete a file (Section, 100 = linked):

This function will let the user delete a file which they have ←  
uploaded  
only if the "Delete" flag is turned on in the "Sections configure" window, and if the file is not locked. The "Extra" gadget contains the file section. Section 100 means linked sections, all sections with the "Linked" flag turned on are included in the search for the file to delete (see "Sections configure"). Partial strings can be used for the filename search. If a partial string is used and the BBS finds a match, then the user is asked "Is this correct?" (line 256). Select either "Y" for yes, "N" for no or "S" to stop the search. Note: Sysops (access 5000) can delete any file.

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### 1.73 Function 22 - Read a file (Section, 100 = linked):

This function lets the user read a file from the file library. The "Extra" gadget contains the file section. Section 100 means linked sections, all sections with the "Linked" flag turned on are included in the search for the file to be read (see "Sections configure"). Partial strings can be used for the filename search. If a partial string is used and the BBS finds a match, then the user is asked "Is this correct?" (line 256). Select either "Y" for yes, "N" for no or "S" to stop the search. The BBS will first check the file to see if it is a printable text file. If the file is not a printable text file then the message "Not a printable file" (line 196) is given. Note: "New" files can not be read by users (except Sysops) until made public.

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### 1.74 Function 23 - Upload files (Section):

This function lets the user upload a file to your file library. The term "Upload" is used because the host computer ie. M A X's BBS is the master computer, and can be considered as on a higher level. The user's computer is the slave computer and can be considered as on a lower level. Therefore an upload is a file going from the lower level computer (the user's), to the higher level computer (the BBS). The term download (see BBS menu function 24 - Download a file, below) means a file going from the higher level computer (the BBS), to the lower level computer (the user's). The "Extra" gadget contains the file section in which the file is going to be stored. A user can only upload a file when they have upload access (the "Up" flag). The user can only perform file transfers in the time slot set in the "System configure" window. When selected and the user does not have a default file transfer protocol (protocol 0), then a sub menu is used to select the file transfer protocol to use for the upload. The sub menu has a text file called:

ProtocolMenu.text

See the protocol help file for descriptions of the protocols available called:

ProtocolHelp.text

If the user runs out of time during an upload then the BBS will wait until the transfer is finished, and add one extra minute to the user's time remaining for every file uploaded. This allows the user time to enter the file description. After a file or files have been transferred the BBS will ask the user for a description of the



file(s). If the user exits the BBS (lost carrier) before the file description is entered for all files, then the BBS will ask the user for the file description(s) during the next login (see the "GFD" flag in the "User editor"). Also see "File transfer" below. Note: Sysops (access 5000) can upload a file at any time.

Changes from version 1.12 to version 1.14:

\* The BBS menu function 23 - Upload files, can now contain an optional upload path in the "Filename/Name/Dest/Path" gadget. You can also use a pseudo section number of 100 to specify no section ie. the uploaded file is not stored in the "File.data" file (raw upload).

Changes from version 1.14 to version 1.16:

\* Bug fixed. The BBS now does not turn on the "Get File Description" flag when doing a "Raw" upload.

Changes from version 1.33 to version 1.40:

\* The BBS no longer accepts zero sized uploads.

Changes from version 1.50 to version 1.51:

\* Bug fixed: When two different nodes are uploading at the same time the BBS would ask for descriptions of the files uploaded by the other node.

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## 1.75 Function 24 - Download files (Section, 100 = linked, [Filename]):

This function lets the user download a file from the file library. ←

This will probably be the most used function. The "Extra" gadget contains the file section. Section 100 means linked sections, all sections with the "Linked" flag turned on are included in the search for the file to be downloaded (see "Sections configure"). Partial strings can be used for the filename search. If a partial string is used and the BBS finds a match, then the user is asked "Is this correct?" (line 256). Select either "Y" for yes, "N" for no or "S" to stop the search. An optional filename can be used in the "Filename/Name/Dest" gadget. When the filename is given the BBS will skip the filename search and proceed straight into the file transfer. The file must be found in one of the three file paths. The file does not have to be in the file library data file. If the file is in the file library data file, then the download count will be updated on completion of the download. A user can only download a file when they have download access (the "Dn" flag). The user can only perform file transfers in the time slot set in the "System configure" window, and can only download a file if their download/upload ratio allows (see

"User editor"). The user can not download "New" files until they are made public, and can only download a file when they have enough time remaining for the transfer. When selected, and the user does not have a default file transfer protocol (protocol 0), then a sub menu is used to select the file transfer protocol to be used for the download. The sub menu has a text file called:

ProtocolMenu.text

See the protocol help file for descriptions of the protocols available called:

ProtocolHelp.text

With the batch file transfer protocols (YModem, ZModem) a maximum of ten files can be downloaded in a batch. Also see "File transfer" below. Note: Sysops (access 5000) can download any file including "New" files at any time.

Changes from version 1.18 to version 1.20:

\* The download batch file limit has been increased from 10 to 30. The user's download/upload ratio is now check with each file requested.

Changes from version 1.42 to version 1.43:

\* When a user requests a download which would exceed their time limit, the BBS will now show the actual (estimated) time required.

Changes from version 1.43 to version 1.50:

\* When using ZModem to transfer a file and the user does not have enough time remaining to complete the transfer (as compared to the estimated download time), the BBS will allow the transfer to start, but when the user's time remaining reaches zero the BBS will hang-up straight away. Normally, if the estimate time is lower than the user's time remaining, the transfer is continued until completed, even when the user's time remaining reaches zero. The user is told this before the transfer begins, allowing the user to ZModem resume the transfer on the next logon.

Changes from version 1.50 to version 1.51:

\* Bug fixed: When downloading files and the user is asked "Do you want to download your marked files?" (line 307) and the user hits "Y" or "N" to quickly, the BBS would lock-up (want to crash someone's BBS who have not got their v1.51 upgrade yet... :-)).

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## 1.76 Function 25 - Make New file public (Section, 100 = linked):

This function allows the user (Sysop) to make a "New" file ↔ publicly available to normal users. The "Extra" gadget contains the file section. Section 100 means linked sections, all sections with the "Linked" flag turned on are included in the search for the file to be made public (see "Sections configure"). Partial strings can be used for the filename search. If a partial string is used and the BBS finds a match, then the user is asked "Is this correct?" (line 256). Select either "Y" for yes, "N" for no or "S" to stop the search.

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## 1.77 Function 26 - Edit a user:

This function allows the user (Sysop) to edit another user's ↔ file. The BBS will ask the current user for the user's name to edit, and the user file is searched. If the user is not found then the BBS will ask for the name of the user again. When the user that is being edited is found, their user file is displayed. The editor is similar to the other user editors, so only a brief description is given here (see "User editor"). The BBS will ask for which line to edit or enter options "m" to make the user a Member, "x" to exit (aborts any changes) and "s" to save changes. For security reasons when editing the user's access level, the access level can only be lower than the current user's access level. Also the current user can not edit a user with the same or higher access as they have. When editing a user's flags use "\*" to set the flag, "-" to clear the flag and "." to leave the flag as is. Partial flag edit lines are accepted. Note: An Almighty Sysop (access 10000) can edit any user and give any access level.

Changes from version 1.16 to version 1.18:

\* When using the BBS menu function 26 - Edit a user, the "Edit user" window is used when at a local login. If editing a user from remote the old "Remote user editor" is used.

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## 1.78 Function 27 - Execute external program (1 = args, Filename):

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This function will execute an external program. If the " ↔  
Extra" gadget  
contains a "1" then the arguments (see below) are added to the end of  
the filename. The gadget "Filename/Name/Dest" contains the filename  
and path of the file to be executed. This function is intended to run  
external games and utilities. To write a program for this function  
the program must open the serial device in shared mode. The program  
can choose whether or not to use the following arguments (an ASCII  
string appended to the filename with arguments separated with a space  
and null terminated):

"User name (spaces changed to underscore), Access level, Time  
remaining, Bps rate, Page length, Line feeds (always Y), local (Y/N),  
ANSI (Y/N), Pause (Y/N), Cls (Y/N)"

Here is an example argument line:

M\_A\_X 10000 120 9600 28 Y N Y Y Y

The external program must keep track of time remaining and lost  
carriers. When the program returns to the BBS, the BBS will make a  
time remaining adjustment (going by the change in the system clock, if  
any) to the user, and will hang-up if out of time.

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## 1.79 Function 28 - CLI:

This function allows the user (Sysop) to use the AmigaDOS ↔  
commands  
similar to the Amiga's "CLI". This function works in the following  
way; after you have entered the command, the BBS will execute that  
command and redirect the output (which would normally go to a "CLI"  
window) to a file called:

RAM:MAXsBBSFunct28.output

When the control returns back to the BBS a time adjustment is made  
(going by the change in the system clock, if any) to the user. The  
output file above is then printed/sent. This function should work  
with any AmigaDOS command or program that normally outputs to a "CLI"  
window. Note: Some programs may require extra input when executed and  
it may therefore never return to the BBS, they will wait for extra  
input from the local keyboard or mouse. It is recommended that you  
experiment with this function at a local login before you try it from  
remote.

Changes from version 1.18 to version 1.20:

\* The DOS command "CD" now works with the BBS menu function 28 - CLI.

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### 1.80 Function 29 - Deposit to the time bank:

This function allows the user to subtract time from ↔  
their time  
remaining and add it (deposit) to their time bank. The user can then  
later withdraw from the time bank into their time remaining (see  
below). The user can only deposit to a maximum time bank balance  
specified in the "System configure" window. If the time bank balance  
is at the maximum then a message "Time bank balance is too high" (line  
240) is given.

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### 1.81 Function 30 - Withdraw from the time bank:

This function allows the user to add time to their time ↔  
remaining by  
withdrawing time from their time bank. Note: If the pull down menu  
function "Countdown" has been activated then the message "Sysop needs  
to use the computer" (line 249) is given. The BBS will take into  
account the next system event when the user tries to withdraw time.

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### 1.82 Function 31 - Deposit all time remaining and log out:

This function is similar to the BBS menu function 29 - ↔  
Deposit to the  
time bank (see above), except all the user's time remaining is  
deposited to the time bank leaving only one minute. The BBS will then  
do a formal log out as described in BBS menu function 1 - Log out.

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**1.83 Function 32 - Send private echo message (n, [Dest address], [Name]):**

This function is used to generate a private "NetMail" message ←  
to later  
be picked up by or sent to the destination FidoNet system. The  
"Extra" gadget contains an argument. Use a "0" to tell the BBS to  
first check the destination address entered by the user to see if  
it exists in the "FidoNet mail distribution" window. Use a "1" to  
tell the BBS not to check the destination address entered by the user.  
Use a "2" to tell the BBS that the "Filename/Name/Dest" gadget  
contains the destination FidoNet address. The "Filename/Name/Dest"  
gadget can contain an optional user name for the message, except when  
argument "2" is used. All private mail must be sent straight to, or  
be picked up by the destination FidoNet system. Private "NetMail" can  
not be sent indirectly to the destination as the message would not be  
private.

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**1.84 Function 33 - Set default file transfer protocol:**

This function allows the user to set a default file transfer ←  
protocol.  
If the user always uses the same file transfer protocol, then they can  
specify that protocol in their user file. The BBS will not have to  
ask which file transfer protocol they wish to use every time an  
upload/download is selected. See the "User editor" for a list of the  
protocols available. This file is printed/sent when this function is  
selected:

ProtocolList.text

Changes from version 1.21 to version 1.30:

\* The BBS menu function 33 - Set default file transfer protocol, is now  
forced for a new (Guest) user login.

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## 1.85 \* BBS menu function 34 - Door

Changes from version 1.00 to version 1.10:

\* BBS menu function 34 - Door, has been added. This door is downward compatible with Paragon door programs. The door functions have been extended with M A X's BBS exclusive functions eg. The door program can use any of the 33 BBS menu functions and edit any part of the current online user. For information on programming for this door see the Paragon door docs file available in the "M A X's BBS support files" section. A list of extended M A X's BBS door functions will be available soon. The "Filename/Name/Dest" gadget in the "Menu editor" contains the file name and path of the door program to run.

Changes from version 1.12 to version 1.14:

\* The door command 11 now works the way it should. It finds out if a file in your file library is online or not. A carriage return is now printed after using the door command 6 - Input.

\* A M A X's BBS exclusive door command 201 has been added.

Changes from version 1.16 to version 1.18:

\* M A X's BBS exclusive door command 202 added.

Changes from version 1.18 to version 1.20:

\* Multiple doors can now be run as a user logs in. The BBS now looks in the door files file path for the following text files:

```
GuestDoor.text
IntroDoor.text
BulletinDoor.text
MainDoor.text
```

The above text files contain the file name(s) of the door program(s) you wish to run. The text files must contain only one door file name per line. The doors are run one after another in the order of the text file. There is no limit to the amount of doors you can run from each text file! Arguments can now be passed to the door program and are added after the file name of the door. Do not specify paths, the BBS assumes that all door programs are found in the door files file path.

Changes from version 1.33 to version 1.40:

\* The BBS now allows you to put arguments after a door's file name when using BBS menu function 34 - Door.

\* "LockOutDoor" has been added. Works the same way as the others.

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## 1.86 \* BBS menu function 35

Changes from version 1.30 to version 1.31:

\* BBS menu function 35 - Read messages w/o reply, has been added. This function is exactly the same as BBS menu function 17 - Read messages, except the user does not have the option to reply to the messages.

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## 1.87 \* BBS menu function 36

Changes from version 1.33 to version 1.40:

\* BBS menu function 36 - Set junk mail flag, has been added to allow users to set their own "Junk mail" flags.

Changes from version 1.43 to version 1.50:

\* BBS menu function 36 - Set junk mail flag, now defaults to "No" when the user presses <RETURN>.

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## 1.88 \* BBS menu function 37

Changes from version 1.33 to version 1.40:

\* BBS menu function 37 - Raw download, has been added. This function allows the user to download any file in the BBS files file paths, or optionally, specify any file path. To allow file paths enter a "1" in the "Extra" gadget in the "Menu editor". Enter a "0" in the "Extra" gadget to stop file paths from being used.

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## 1.89 \* BBS menu function 38

Changes from version 1.33 to version 1.40:

\* BBS menu function 38 - Who's online, has been added. This function allows the user to see who is online on a multi-line system. The node number, name and suburb of current online users are shown.

Changes from version 1.50 to version 1.51:

\* BBS menu functions 38 - Who's online, and 39 - Internode chat, should now be more stable. It was possible before to have two nodes waiting on a reply from each other, causing both nodes to hang. Note: If one node hangs for some reason and a user then selects the "Who's online" function on a different node, it will cause that node to hang as well. This is because the working node is waiting for a reply from the hanging node.

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## 1.90 \* BBS menu function 39

Changes from version 1.33 to version 1.40:

\* BBS menu function 39 - Internode chat, has been added. This function allows users to chat to each other in private or in a "Conference" on a multi-line system. Note: This function will only work when two or more nodes are running. A user can send a message to a user on another node asking for a chat etc. even if the other user is not in this function. In "Conference" mode, all users in this mode will receive the conference messages. In private mode, only the destination node will see the message.

Changes from version 1.42 to version 1.43:

\* Bug fixed. Auto inserts are no longer allowed in the internode chat message lines.

Changes from version 1.50 to version 1.51:

\* BBS menu function 39 - Internode chat, now remembers all keys pressed during a message interruption from another node.

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## 1.91 \* BBS menu function 40

Changes from version 1.43 to version 1.50:

\* Added BBS menu function 40 - Edit marked files. This new BBS menu function allows the user to manually add marked files or UnMark files. The current marked files are first listed, then the user is ask to enter the file name of the file they wish to Mark/UnMark. The "Extra" gadget must contain a file section number. This function work much the same way as BBS menu function 24 - Download files, in that partial strings are accepted.

\* Full screen file marking has been implemented! This is the ultimate in file marking as you no longer have to type in file names. To use the new full screen file marking you just move the cursor up and down in a file listing, and press <RETURN> when the cursor is over the desired file. The file name will then change colour. If you select a file that is already marked it will automatically be UnMarked. The "ListFileHelp.text" file has been updated with the new information on file marking. When BBS menu function 24 - Download files, is used, the marked files can then be included automatically in the download. 30 marked files is the maximum. Marked file are automatically UnMarked as they are successfully transferred, making the mark files list abort proof.

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## 1.92 \* BBS menu function 41

Changes from version 1.43 to version 1.50:

\* Added BBS menu function 41 - UnMark all marked files. This BBS function simply UnMarks all marked files.

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## 1.93 \* BBS menu function 42

Changes from version 1.50 to version 1.51:

\* BBS menu function 42 - Send a private NetMail message via Hub, has been added. This function allows the user to write a NetMail message to a destination which is routed through a Hub. The "Extra" gadget contains the phone number pseudo section number as found in the "FidoNet mail

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distribution" window (ie. 101 - 121). The "Filename/Name/Dest/Path" can hold an optional destination address (Zone:Net/Node.Point).

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## 1.94 File transfer:

When a file transfer has been started the BBS opens the "File transfer" window. A file transfer can be aborted at any time by clicking on the "Close window" gadget. The BBS may not respond to your abort request straight away, but it will eventually (click once and wait). Here is the information displayed in this window:

**Protocol:** This shows which protocol is being used for the file transfer (XModem, YModem, ZModem). **Definition:** Protocols are agreements between people or processes about which may do what to whom, and when.

**Filename:** This is the filename of the file currently being transferred.

**Size:** This is the size in bytes of the file currently being transferred.

**Total blocks:** This is the total number of blocks for the current file being transferred. Block sizes change depending on which protocol is being used. With the ZModem protocol the block size can change during the file transfer when errors are detected (see "Errors" below). **Note:** For batch downloads the initial number of blocks is the total number of blocks for the batch transfer.

**Estimated time:** This is the estimated time for the current file being transferred. The estimated time depends on the bps rate that the user is connected at. This is only an estimate, and if errors occur during the file transfer then the transfer will take longer. The estimated time was calculated on the average characters per second rate for each protocol at 2400 bps. This time is used to check that a user has enough time remaining to complete the file transfer. **Note:** For batch downloads the initial estimated time is the estimated time for the batch transfer.

**Actual time:** This is the actual time (timer) for the current file being transferred. The actual time is in real seconds ie. updated every second. The timer starts from when the transfer window is first opened. Some file transfer programs only update the actual time after each block. Some blocks can take up to thirty three seconds to send! Therefore it may look like there is no activity for this time.

**Bytes:** This is the number of bytes transferred so far for the current file. With the ZModem protocol this may not start at zero

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because the receiving side of a ZModem transfer can start the transfer at any position. The ZModem protocol can also change the current file position at any time during the transfer.

**Blocks:** This is the number of blocks transferred so far for the current file. With the ZModem protocol the block size can change during the file transfer when errors are detected (see "Errors" below).

**Errors in this block:** This is the number of errors detected in the file transfer (due to line noise) for this block. If the total number of errors in a block is higher than ten (six for the ZModem protocol) then the transfer is aborted. Note: For ZModem send this field is not used as the ZModem protocol can change the file position when an error is detected, ie. may not be the same block.

**Errors:** This is the total number of errors so far for the current file being transferred. Errors are caused by line noise and are detected by Cyclic Redundancy Checks (CRC). The CRC is performed on the block being transferred before and after the transmission, if the CRC's do not match then an error has occurred with the block during the transmission, the block is then re-sent. When an error has occurred in a ZModem download the block size will become smaller (minimum 256 bytes) as successive errors are detected. This helps the file transfer time on very noisy lines.

**Chars per second:** This is the characters per second rate for the current file transfer. The "CPS" gauge is accurate to twenty milliseconds. If errors occur during a file transfer then the "CPS" rate will drop. If you are multi-tasking the BBS with other programs then this will also slow down the file transfer. When calculating maximum characters per second for file transfers, remember that each character has 1 start bit plus 8 data bits plus 1 stop bit. Giving a total of 10 bits per character. Therefore a 2400 bps rate will give a maximum of:

$$2400 / 10 = 240 \text{ characters per second.}$$

**Last ZModem header:** This line is only used for ZModem file transfers. It displays the last ZModem frame type and position/flags. This may be useful for debugging a ZModem program or to give you an idea of how the ZModem protocol works.

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## 1.95 CUSTOMIZING THE BBS

M A X's BBS is supplied with sample menus and text files to ↔ give you an idea of the features that M A X's BBS has. You may wish to use the BBS as it is. Most users do not want to call a BBS which is exactly the same as one already online. Therefore it is up to your

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imagination and needs as to what group of users you wish to attract to your BBS. M A X's BBS was written with the concept of being able to completely customize the look and feel of the BBS. All the text files can be edited with any text editor. You can also add your own text files. All menus have separate text files. All BBS text can be edited with the "Text editor" function (see "Configuring the BBS"). In fact you could even change the language of the BBS! Here are descriptions of the default text files used by the BBS:

**BBS.text:** This is the file seen when the BBS is waiting for a call (idle).

**Bulletin.text:** This is the file seen by the users after they have logged on. The user will only see this if the "Bulletin" flag is not set, ie. when you make an update to the news bulletin, use the global edit function to force all users to read the new news bulletin (see "User editor").

**FSEHelp.text:** This is the full screen editor help file seen when the user selects the help option in the full screen editor. It is recommended that you only change the ANSI colours in this file.

**Guest.text:** This is the file seen by a new or "Guest" user when they have logged on your BBS for the first time. This file would normally contain introduction and membership information for new users.

**Intro.text:** This is the file seen by all users just after they have logged in. This file would normally contain information and statistics about the user.

**ListFilesHelp.text:** This is the BBS menu function 20 - List files, the file seen when the user selects the help option from the sub menu. It is recommended that you only change the ANSI colours in this file.

**ListFilesMenu.text:** This is the sub menu file for the BBS menu function 20 - List files. The selection keys can not be changed and it is intended that you only change the look and colours.

**LockOut.text:** This is the file seen by a user who has been locked out of your BBS (access 0). Better change this!

**LogIn.text:** This is the file seen by the user when the user first connects to your BBS. You should change this to the name that you intend to call your BBS. Note: Pause is turned off when printing/sending this file.

**LogOut.text:** This is the file seen by the user with the BBS menu function 1 - Log out. Note: Pause is turned off when printing/sending this file.

**MsgEdHelp.text:** This is the BBS menu function 16 - Leave a message, the file seen when the user selects the help option from the sub menu. It is recommended that you only change the ANSI colours in this file.

**MsgEdMenu.text:** This is the sub menu file for the BBS menu function 16 - Leave a message. The selection keys can not be changed and it is

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intended that you only change the look and colours.

MsgRdHelp.text: This is the BBS menu function 17 - Read messages, the file seen when the user selects the help option from the sub menu. It is recommended that you only change the ANSI colours in this file.

MsgRdMenu.text: This is the first sub menu file for the BBS menu function 17 - Read messages. The selection keys can not be changed and it is intended that you only change the look and colours.

MsgSearchMenu.text: This is second sub menu file for the BBS menu function 17 - Read messages. This menu is seen when the user selects "(S)earch msgs" from the first sub menu. The selection keys can not be changed and it is intended that you only change the look and colours.

ProtocolHelp.text: This is the BBS menu function 23/24 - Upload/download a file, the protocol help file seen when the user selects the help option from the sub menu. It is recommended that you only change the ANSI colours in this file.

ProtocolList.text: This is the BBS menu function 33 - Set default file transfer protocol, the file seen when the user selects this function.

ProtocolMenu.text: This is the sub menu protocol selection file for the BBS menu functions 23/24 - Upload/download a file. The selection keys can not be changed and it is intended that you only change the look and colours.

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## 1.96 ANSI codes:

M A X's BBS supports all the ANSI colour codes plus ←  
some cursor  
movement codes. All ANSI codes begin with these two characters "Escape" (^[]) and "[", the following codes are optional numbers separated by a semi colon (;) and terminated with an "m" for a colour code, "A, B, C, or D" for a delta cursor movement or "H" for cursor position. The colour codes can be as long as you like and are terminated with the "m" character.

eg:

```
<Esc>[n;n...m
```

```
<Esc> - the "Escape" (^[]) character
[ - The "[" character
n - A number (see below)
; - Separates numbers
m - Terminates the ANSI colour code
```

Where the "n" is a number representing a colour or attribute. Here are the available colours:

- 30 - Black foreground
- 31 - Red foreground
- 32 - Green foreground
- 33 - Yellow foreground
- 34 - Blue foreground
- 35 - Magenta foreground
- 36 - Cyan foreground
- 37 - White foreground
- 40 - Black background
- 41 - Red background
- 42 - Green background
- 43 - Yellow background
- 44 - Blue background
- 45 - Magenta background
- 46 - Cyan background
- 47 - White background

Here are the available attributes:

- 0 - All attributes off (normal white on black)
- 1 - Bold on (high intensity)
- 3 - Italics on
- 4 - Underscore on
- 5 - Blink on (or italic if flashing text is turned off)
- 7 - Reverse video on (swaps foreground and background)

For a delta cursor movement the ANSI string is similar to the above, except that you can only have one number and the termination character gives the direction of movement:

- A - Cursor move up by n (north)
- B - Cursor move down by n (south)
- C - Cursor move right by n (east)
- D - Cursor move left by n (west)

eg:

```
<Esc>[10A
```

The cursor will move up by ten lines

For cursor position the ANSI string is terminated by the "H" character:

eg:

```
<Esc>[n1;n2H
```

- n1 - Row (line)
- n2 - Column

If the number for both delta cursor movement and cursor position are zero (0) or omitted, then they will default to one (1).

---

Changes from version 1.00 to version 1.10:

\* The ANSI cursor position code now accepts just a row number and no column number.

eg:

```
<Esc>[20H
```

Changes from version 1.16 to version 1.18:

\* The ANSI codes "<Esc>[2J" and "<Esc>[2K" have been implemented. Some door programs use these codes.

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## 1.97 Auto

M A X's BBS will automatically insert text into any BBS menu, text file or BBS text. There are forty seven auto inserts available. To insert text the character "%" is used followed by the character code representing the insert to be placed there. If you wish to use the "%" character without an auto insert then use two "%" characters (you will only see one). It is recommended that you print out the auto insert summary file as a quick look-up called:

```
AutoInsert.text
```

Here is the list of auto inserts available:

```
%a - Sysop name (line 0)
%b - Full date & time
%c - Date
%d - Time
%e - Talking clock

%f - User name
%R - User first name
%g - Suburb
%h - Phone number
%i - Computer description
%j - Comment
%k - Time remaining
%l - Access
%u - Status
%m - Time limit
%n - D/U ratio
%o - Last message read
%p - Page length
```

---



%q - # of calls  
%r - # of messages  
%s - # of uploads  
%t - # of downloads  
%M - Time bank  
%N - File transfer protocol  
%O - Future  
%v - Last on date & time  
%w - bps rate

%x - Total calls  
%y - Number of users  
%z - Active messages  
%A - Lowest message  
%B - Highest message  
%C - Active files  
%D - Calls today  
%E - Messages today  
%F - Files today  
%G - Guests today  
%Q - Imports today

%H - Last user's name  
%I - Last logon date & time  
%J - Date & time user logged on  
%K - Elapsed time  
%L - Percentage time used  
%P - Mins before next system event  
\* %S - Node number  
\* %T - Number of online users  
\* %U - Section for current menu

%X - Forces hangup  
%Y - Waits for a second  
%Z - Forces a pause

Changes from version 1.21 to version 1.30:

\* The auto insert "%T" has been added. This is the number of users online.

Changes from version 1.43 to version 1.50:

\* Added auto insert %U - Section of current menu. This new auto insert will check the current menu for a menu function which requires a section number. It will use this section number to look up the section name as defined in the "Sections configure" window, and insert it. This allows you to use the same menu text file for many different menus. The search starts from the top and looks for the first menu function that the user has access to that requires a section number. Note: Section 100 and higher are ignored.

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## 1.98 Hiding parts of text:

Parts of menus or parts of any text file can be hidden ←  
from users  
depending on their access level. This is useful to hide menu functions from users who do not have access to them, and hiding parts of news bulletins with information you do not want some users to see. This is how it works; the "@" character is followed by an access level. Only users with the same or higher access level can see the text following the "@n" code. If you want to use the character "@" without an access level check, then use two "@" characters (you will only see one). Here is an example to hide the text "Only sysops can see this" from users with an access level of less than 5000:

eg:

```
@5000Only sysops can see this@0
```

Put an access level check of zero ("@0") after the part of the text you are hiding, so that all users can see the remaining part of the text file.

Changes from version 1.16 to version 1.18:

\* Text can now be hidden from users with higher access levels. This is similar to the minimum access level specifier "@". To specify a maximum access level use the "|" character followed by the access level. Only users with the same or lower access level can see the text following the "|n" code. If you want to use the character "|" without an access level check, then use two "|" characters (you will only see one).

eg:

```
|5000Sysops can not see this|10000
```

Put a maximum access level check of 10000 after the part of the text you are hiding, so that all users can see the remaining part of the text.

Changes from version 1.43 to version 1.50:

\* The BBS now allows an access range to be used when hiding parts of text in text or menu files. Before, only one or the other could be used. Example:

```
@10Only access 10 to 10000 can see this.  
@5|20Only access 5 to 20 can see this.  
@15Only access 15 to 20 can see this.  
|15Only access 15 can see this.  
|10000Only access 15 to 10000 can see this.  
@0Everybody can see this (normal).
```

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## 1.99 About

Hi all,

I decided to do this to the MAX's MANUAL due to the fact that I have had a few people ask for the docs as they would like to start their own BBS, now the docs in there original form left a lot to be desired so I did this to them to make life easier.

All UPDATES are included in this guide and are marked with a \* at the start and have the version numbers that they came into effect above them.

Each divided sub chapter is also linked with NEXT & PREVIOUS buttons as well as a contents button so you can read the guide like a book when you have finished with one sub chapter hit NEXT to go to the next sub chapter, each main chapter has to be entered from the contents.

I hope that this guide makes life easier for you all and setting up MAX's BBS more enjoyable.

Greg...

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