S.O.F.T.W.O.R.X BBS v1.0

Coded by: Mark Shields

Powered by Bryan Wilcutt's Zyolog Machine Language

Documentation by: Chris Schneider (SHIFT838)

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First off let me state that I believe this is version 1.0 as this was the first version that Mark Shields gave me before he rewrote it completely.

Filename: *ZYOLOGV1

The files is in TIFILES format and archived with Barry Boones Archiver

Hardware Requirements (real iron – not tested on emulation):

- TI-99/4A
- Extended Basic
- Disk System
    - Recommended
        - Minimum 3 DS/SD 180k Floppy drives
- 32k Memory Expansion
- RS232 Card
- Modem / UDS device
- Parallel Printer (PIO)
    - The printer is used for logging of feedback, user login, files uploaded and downloaded.

This diskette was provided to me by a friend that had a copy of it. I was **not** able to recover one file called '**DECODELDR**', which is a TE-II decoding routine program, which is listed as option #3 on the LOAD menu. (To Load DV Converter)

I believe I have the BBS completely reset.

Cable Requirements:

A standard TI Serial cable can be used as follows but in order to detect the carrier it will need to be modified to run a wire to the joystick port.

TI RS232/1	Serial Device	UDS	Description
2	3	3	Receive Data (RX)
3	2	2	Transmit Data (TX)
5	5	4	Clear to Send (CTS)
7	7	7	Ground
20	20	5	Data Terminal Ready (DTR)

TI RS232/2	Modem	UDS	Description
14	3	3	Receive Data (RX)
16	2	2	Transmit Data (TX)
13	5	4	Clear to Send (CTS)
7	7	7	Ground
19	20	5	Data Terminal Ready (DTR)

Modem/serial device	Joystick	Description
8	9	For Carrier Detect

**Note the cable only gets plugged in when the BBS starts to run and after you input the date and turning CHAT ON/OFF. The program will tell you when to plug the cable in.

Setup

Files Included:

Filename	Description	File Type
)BASES	Menu of Message base Names	DV80
)BORDER	Border comments left by users	DV80
)BULLETIN	Bulletin file	DV80
)COLORS	Colors picking menu for TE-II users	DV80
)DOWNLOADS	List of files available for download	DV80
)INFOONBBS	BBS Information file	DV80
)LOGIN	Login text file displayed to users at login	DV80
)MAINMENU	Main Menu	DV80
)MEMBERS	BBS Member List	DV80
)PASSWORDS	BBS User file	DF50
)RANK	BBS User Level Info	DV80
)SYSTEM	BBS System File	DV80
)TB1	Titles to messages in Base 1	DV80
)TB2	Titles to messages in Base 2	DV80
)TB3	Titles to messages in Base 3	DV80
B1-1	Message Base #1	DV80
B2-1	Message Base #2	DV80
B3-1	Message Base #3	DV80
CATALOG	Catalog Program	PROGRAM
CURSOR	Cursor Definition Program	PROGRAM
LOAD	BBS load Program	PROGRAM
MAINT	BBS Maintenance Program	PROGRAM
TBBS	Main BBS Program	IV254
ZYOLOGML	Zyolog Machine Language Program for CALL LINKS used in TBBS	PROGRAM

LOGIN Message [File =)LOGIN]

Login message displayed to users when connected

Menus & Text Files

When making menus/text files instead of saving the file use the PF command in TI-Writer or BA-Writer. This will perform a 'Print File' and then give the device name as the DSKx.FILENAME

This will remove the odd characters at the end of the file when displayed via a terminal program.

Line #'s to edit for your BBS

There are quite a few lines of code that need to be edited that reference DSK1 or '1.' You will need to go through each line of code for both TBBS, MAINT, CURSOR, etc. to find where you need to change. Mark coded some with the DSK1 and some with "FILE$=1."&….. This calls DSK1 from a GOSUB of 1750 to read text files.

150 – Change DSK1 to the drive you want

210 – Change DSK1 to the drive you want

430 – Change to your BBS Name

450 – Change sysop password

490 – Change to your BBS Name

850 – This line has your BBS name backwards first and then another statement with it forward. The below statement you will need to change the '24' to how every many letters are your bbs name. Notice below the '<<<' and '>>>' characters. These are counted.

This line will print your bbs backwards first then go back over it and change the BBS name forwards so it's readable.

880 – Change FILE$="1."&…. To the disk drive # you want

1100 - Change FILE$="1."&…. To the disk drive # you want

1370 - Change FILE$="1."&…. To the disk drive # you want

1400 – Change to your BBS name.

1420 – Change to your BBS Name and Number, etc.

2020 - Change FILE$=”1.”&…. To the disk drive # you want for the message base files

2130 - Change FILE$=”1.”&…. To the disk drive # you want

2180 - Change FILE$=”1.”&…. To the disk drive # you want

2210 - Change FILE$=”1.”&…. To the disk drive # you want

2220 – Change FILE$=”1.”&…. To the disk drive # you want

2230 – Change FILE$=”1.”&…. To the disk drive # you want

2250 - Change FILE$=”1.”&…. To the disk drive # you want

2460 – Change to your BBS Name

2490 - Change FILE$=”1.”&…. To the disk drive # you want

2540 – Change to your Baudrate

2560 – Change to your disk drive #. Reference CALL LINK(“XMODEM”) routine.

2590 - Change FILE$=”1.”&…. To the disk drive # you want

2890 – change the primary password

2900 – Change the remote password

2910 – Change the SYSOP NAME

CALL LOADS

-24573,A	A=ASCII Character to echo over modem(0=Normal)
-24574,B	(0 or 1, not sure what this does)
-24576,C	C=character length

CALL LINKS

CLRWIN	Clear Sysop Window
CLRSCR	Clear Screen
CHAT	Enter CHAT mode ("CHAT") ;CTRL-Q exits chat.
FCOL	Set 40 Column Sysop Window
IN	Accept input Numeric and String ("IN",A$)
NUMIN	Accept Input - Numeric only ("NUMIN",A$)
ONE	Allow only one character input ("ONE",A$)
PRINT	Enables to quit text files during display (CTRL-S and CTRL-Q still enabled)

PRINTC	Print to sysop window;similar to DISPLAY AT at cursor location. ("PRINTC",100,A$)
PRINTX	Sends characters over modem ("PRINTX","STRING HERE") ; Does not allow quit during display
SPINOF	Turns Cursor Spin Off
SPINON	Turns Cursor Spin On
XMODEM	Start XMODEM transfer ("XMODEM",PATH,FILENAME,AA,RR) PATH=DISK DRIVE # (FLOPPY DRIVES ONLY, EXAMPLE 1 = DSK1, ETC.) FILENAME = FILENAME TO DOWNLOAD AA=UPLOAD/DOWNLOAD 0=DOWNLOAD 1=UPLOAD RR= CRC/CHECKSUM Error checking ; 1=CRC 2=Checksum

There may be more CALL LINKS and CALL LOADS, but these are all the ones used in the BBS and I do not have any documentation to the Zyolog machine language. I have tried to get in touch with Bryan Wilcutt but have not been successful.

Running the BBS

The BBS auto loads via XB.

Once the LOAD program executes you will be need to select to run the BBS. You will get instructions to issue a CALL FILES(6) command, which is a must in order to open the proper amount of files required for the BBS to run. You will also have to issue a 'RUN 300' after the CALL FILES(6) to start loading the BBS.

Once the BBS starts you will then have to enter the DATE in format of ##/##/## and then enter On or Off for chat.

Plug in the carrier detect cable to the joystick plug and it will run.

BBS Operation

If I remember correctly the BBS does not write user #'s to the password file. The new users are issued a random password.

I also believe the users have to be validated before they can login after the initial new user application. This must be done by a sysop via the maintenance program.

The sysop name and password are not stored in the)PASSWORDS file, but are hard coded in the program. Line #'s are listed in '**Line #'s to edit for your BBS'** section.

HOT KEYS for BBS

The below HOT KEYS are configured for use with the BBS.

Key	Held Where?	Command
A or a	At waiting for call screen (OFF)	Force modem carrier
C or c	Held down before prompt appears for online user and until command is executed.	Enter Chat
M or m	Held down before prompt appears for online user and until command is executed.	Enter online maintenance mode
O or o	Held down before prompt appears for online user and until command is executed.	Force Logoff of user
SPACE	Held down during displaying of menu for online maintenance mode above.	Aborts menu display and just shows 'CHOICE'