

BITS, BYTES & PIXELS

LIMA 99/4A USERS GROUP



OCTOBER 1995

Volume 11, #6

THE 1996 CLEVELAND ALL TI MULTI USER GROUP CONFERENCE
From: dd314@cleveland.Freenet.Edu (Glenn W. Bernasek)
Date: 31 Aug 1995 04:58:34 GMT

**** AN IMPORTANT ANNOUNCEMENT ****

ATTENTION *** ALL *** TI-99/4A AND GENEVE USER GROUPS,
PROGRAMMERS / DEVELOPERS / USERS, VENDORS AND CLOSET
CLEAN-OUTERS!

THE CLEVELAND AREA TI-99/4A USER GROUPS (THE TI-CHIPS AND THE
NORTHCOAST 99ers) ARE GIVING THE LIMA USER GROUP A MUCH NEEDED
AND WELL DESERVED BREAK IN 1996!!!

WE ARE PLEASED TO ANNOUNCE THAT THE POPULAR TI-99/4A AND GENEVE
M.U.G. CONFERENCE WILL BE HELD IN 1996 AT THE OHIO NATIONAL
GUARD ARMORY IN BROOKPARK, OHIO (A SOUTHWEST SUBURB OF
CLEVELAND).

(3 MINUTES FROM I-71, 5 MINUTES FROM I-480, 5-10 MINUTES FROM
CLEVELAND HOPKINS INTERNATIONAL AIRPORT AND 10 MINUTES FROM EXIT
10 OF THE OHIO TURNPIKE (I-80))

ON FRIDAY, MAY 24 (Set-up Night - From 3:30 pm to 8:00 pm) AND
SATURDAY, MAY 25 (Conference Day - From 8:00 am to 5:00 pm).

THE 1996 TI-99/4A and GENEVE M.U.G. CONFERENCE IN BROOKPARK, OHIO
WILL BE SET UP MUCH LIKE THE SUCCESSFUL LIMA USER GROUP M.U.G.
CONFERENCES.

AND LIKE THE CONFERENCES IN LIMA, THE 1996 CONFERENCE IN
BROOKPARK, OHIO WILL BE *** FREE *** !

THERE WILL BE *** NO *** ADMISSION CHARGE OR SET-UP FEE!

IF YOU HAVE SOMETHING FOR THE TI-99/4A AND/OR GENEVE YOU WOULD
LIKE TO SHOW, SHARE, SELL OR JUST TALK ABOUT, COME TO THE 1996
TI-99/4A AND GENEVE M.U.G CONFERENCE IN BROOKPARK, OHIO NEXT MAY
24 AND 25.

TO GET ANSWERS AND/OR MAKE CONFERENCE RESERVATIONS (PLEASE MAKE
YOUR RESERVATIONS AS-EARLY-AS-POSSIBLE).

CONTACT: GLENN BERNASEK
13246 HARPER ROAD
STRONGSVILLE, OHIO 44136

PHONE: (216) 846-0865 (After 9:00 pm EST)
(ALL MESSAGES WILL BE RETURNED!)

E-MAIL: dd314@cleveland.freenet.edu

***DONE**

Bits, Bytes & Pixels

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MESSAGE FROM JEFFERY BROWN ABOUT TERM 80

Sender: bb737@freenet3.carleton.ca (Jeffrey Brown)
Date: Sat, 26 Aug 1995 01:20:31 GMT

{BB&P Editor's note: The trial version of Term 80 is available archived on a DSSD disk by sending \$1 to the Lima User Group. This version lacks the automatic phone dialer and the ability to download. For these you have to pay the author as described below.}

Ok, for those who want the Full Term 80, just send \$20 Canadian, or \$15 US plus postage (\$3). This also registers you to be eligible for such niceties as notification of major new releases and software, as well as "Free" updates of Term 80 (with the price of shipping and all...)

Anyhow, another note. Term 80, the FULL version is COMMERCIAL, which means NO sticking the FULL version in your UG libraries!! The DEMO version is shareware/freeware, whatever (even PD if you like, not too much of a difference)... you are allowed to put this program anywhere you like, and distribute it so long as ALL files (meaning the archives) are kept in their ORIGINAL form (well... Unencoded or whatever if it was at some point transferred over Email or something like that).

Enjoy!

BTW, I plan to get cracking on some nifty/cool AMS stuff soon enough. As soon as I get the first batch of Term 80's mailed, and do the preliminar planning!!

****DONE****

LIST OF MOST-ASKED QUESTIONS REGARDING SUPERAMS.

August 30, 1995 - Downloaded from Comp.sys.ti newsgroup

"What's All This SuperAMS About??"

A Brief Description

By J.W. Krych (c) 1995

May Be Reprinted As Long As Source

Is Identified

Hello!

One of the nicest features of the internet, is the ability to post information regarding new TI 99/4A products. The amount and quality of information is simply amazing! Over the years, much has been published on the subject of expanded memory, on the internet and other services.

Which means that there are those who have constantly been reading whatever material I or others have written. On the flip side of this, there are people, all of the time, who are just finding out what is going on. And the first question on the post is, simply, "What are you talking about?"

NEXT PAGE

Thence, the reason for this letter, which will be posted on the internet, and kept as a standard response to those who ask me weeks or months after the initial post. Or, when I post new SuperAMS information, and questions are again asked.

Q. What is SuperAMS?

A. SuperAMS is an expanded memory SYSTEM for the Texas Instruments 99/4A Home Computer, ONLY! SuperAMS will not work on the 99/4A clone, Geneve, or the original home computer-99/4. The system is stressed because the product is more than just a piece of hardware, but rather a full functioning system. Able to allow programmers and regular users to enjoy the enhanced and improved power of the 99/4A, through the use of expanded memory.

Q. What is expanded memory?

A. Expanded memory is anything that is above the standard 32k card that Texas Instruments and other third-parties designed and sold. This can be as little as 4k more or on up. Various methods have been tried over the years-adding memory to cartridges, etc.

Q. What does SuperAMS offer in expanded memory?

A. SuperAMS, by it's design, will allow from 128k all the way up to 1024k of memory. By using standard SRAM chips, the qauntity is as follows: 128k/256k using 128kx8 SRAM chips, or 512k/1024k using 512kx8 SRAM chips.

Q. What becomes of the 32k card?

A. SuperAMS both replaces and upgrades the 32k card. It is true that the 32k card and SuperAMS CANNOT exist in the Peripheral Expansion System, aka: PEB, at the same time.

Q. How does SuperAMS accomplish this feat?

A. SuperAMS has two(02) modes of operation. In PASS mode, the SuperAMS acts exactly as a 32k card, the 99/4A only "sees" 32k. Hence, all programs that require a 32k card, will run correctly and with no changes in performance. In MAP mode, the expanded memory takes effect. And programs written for this mode will be more powerful and capable than standard 32k programs.

Q. Will the SuperAMS in MAP mode allow me bigger TI-Writer files?

A. No! Programs need to be written to use the expanded memory. Nothing TI wrote, or for that matter, third-party software, will "see" this expanded memory, and adjust to accordingly.

Q. What has been written for the SuperAMS?

A. A extensive list of utilities, developmental software, game, and terminal software, are but the beginning. Software, since the re-introduction of the SuperAMS, has been coming down the line. And, top programmers have received SuperAMS cards and software to write for it.

Q. What are the technical specifications to SuperAMS?

A. Obviously, such a response would be lengthy and in-depth. However, some fundamentals can be told here. SuperAMS: replaces any and all 32k cards in the PEB, uses CRU address >1E00 to switch between MAP and PASS modes, uses the >4000 space for memory mapper registers, uses the 74HCT612 Memory Mapper

for expanded memory(a one-chip solution, 74HCT612 is the low-power version of the 74ls612), uses 4k page segments(note! in manual programming the page size is that, 4k, with the Linker system program modules can be from 4k up to 24k in length.), and is the first memory system to NOT utilize a DSR, Device Service Routine, for the expanded memory access. The upper 24k of the 99/4A is mapped out(registers A-F), and the lower 8k is mapped out(registers 2&3)

Q. What is the "system?"

A. The system is a new program loader, a new Macro Assembler, and an Object Linker. With this, the programmer need only to assemble his modules, and link them together. And, never worrying about how to page the expanded memory! This is the "ease-of-use" concept. In addition to assembly, a small c compiler, c99, is available for use with the above programs.

Q. Do all programs use the system?

A. Not all. It is a matter of preference by the programmers involved. People are not limited to just the system, as several programs and utilities manually program the SuperAMS.

Q. Final question, where can SuperAMS be purchased?

A. SuperAMS, the second generation AMS, is available NOW from the SW99ers User Group, in Tuscon Az. Price for 128k is \$85.00 U.S. and for 256k, \$100.00. Plus, \$5.00 S & H. The 512k and 1024k prices are not listed, due to price flucuations of the 512kx8 SRAM chips. Each SuperAMS card is tested and subject to a 24hr burn-in before shipment. Problem cards are to be sent back for repair, to the SW99ers. Each SuperAMS also comes with the current software on disks. AMS CARDS WILL ALSO BE AVAILABLE FOR PURCHASE AT THE SEPT 30 NEW ENGLAND FALL FAIR AT WOSTER MA.

When one realizes, just how much went into the SuperAMS, the AEMS Project, a tremendous accomplishment has been achieved. The TI 99/4A has been given a much-needed boost. The power, and speed, are finally here, with real software. And, as funny as it may seem, SuperAMS is REAL! Not vaporware, or promised "soon."

For those who want it, a response via email, will get you the SuperAMS Order Sheet, complete with instructions on where to send the check and who to write it out to. I thank you for your time and patience! And, I pray that this has answered most of anyone's questions! Welcome to the AMS Family!

Take care and God Bless!
Regards,
J.W. Krych
Sw99ers Representative

***DONE**

**VIDEOTEXT CARD SOFTWARE AND
Q*BERT ON AN 80 COLUMN SYSTEM
by Oliver Arnold**

Hello Charles!

Here are two infos for the next BITS and BYTES...

I have just written some new software for the Teletextcard. It contains an improved version of the MENU80/40 (now v2.1) program and a new program called VIDEOSCRIPTLOADER.

In MENU80/40 you have now the possibility to control the TV channels. This is

be done using three Relais controlled by the PIO or the 16 Bit Port (a new hardware development of our user group). The Relais are connected to the remote controller of your TV. The program switches the TV on and change to the channel you like. This technique is also supported in the following program.

The VIDEOSCRIPTLOADER is a program which helps you to save time because you needn't sit in front of your computer. All searching processes are done automatically. The program is controlled by a script file. A script File is edited by any text editor you like e.g. the new Funnelweb editor. In this script file you type in some short commands and the numbers of pages you like to save. If you start it the program loads the script file and starts to search the selected pages and saves them to any device you like. In the following you see a typical script file:

```
* a STAR means this is not recognized = REM in Basic
N
* grafics are stripped of
F DSK7.NEWS
* selected pages should be saved on file NEWS
P 13
* change to channel 13
111-149 all pages from 111 to 149 should be saved, if there are
* subpages they will be saved too
P 32
* change to channel 32
F DSK7.WEATHER
* old File will be closed and a new File WEATHER will be opened
200/4 Page 200 but only subpage 4 will be saved
C FW all Files will be closed and a user defined CALL will be
* executed (HORIZON RAMDISK)
* some other commands are
* C means grafics on
* Z save two page next to each other using full 80 columns
* E save one page after one page
* V 1000 delay time for switching to the next channel
* this time depends on your computer system and your remote-
controller, you must check it out
```

If you use a time switch to start your computer everyday automatically you get an independent system to get e.g. an electronic newspaper or the topics you are interested to.

If you are interested in this software or other products for the TELETEXT-Card

please contact me.

My email adress is: oliver@thorin.swb.de

Correction of Q*BERT (Parker Brother game)

Till now I didn't get a version of Q*Bert which works correctly with 80 column card systems or the Geneve. So I tried to find the error by myself. I used the Explorer program (from Miller Graphics) to analyse the Q*BERT modul and I found it. The error is a loop routine which sets the VDP-Registers. This loop is going to counter eight. On an original TI this has no effect because the old VDP has only seven registers. But the new VDP9938 has a 8th VDP register. This registers sets a new mode which blanks the screen.

To correct the program you need a sector editor e.g. DISKREVIEW.

Search for the bytes >02808800

and change them to >02808700

That all.

If you want to start the Q*Bert game with the EXPLORER here are the necessary addresses:

CPU: GROM:
WS >83E0 AD >E022
PC >006A

During the start process you can see e.g. how the GPL interpreter works.

Oliver Arnold

***DONE**

AN FTP INTERNET SITE FOR THE 99/4A

From: freon@solutions.solon.com (T. M. Pederson)

Date: 1 Sep 1995 10:00:19 -0500

Hello,

I'd like to take this opportunity to announce a new anonymous ftp site for TI-99 (and Geneve) software. Submissions to the archive should be mailed (uuencoded please) to me. All 99er software will be archived via ARC 3.03g (eventually), while Geneve files will usually remain in whatever format they're sent. (I don't have a Geneve to play with.)

ftp://solutions.solon.com/pub/ti99

40 Column files, Disk 1 of 3. Main system files

Filename TYPE Comment

***DONE**

The PRESS Word Processor
reviewed by Charles Good
Lima Ohio User Group

In the past I have reviewed 99/4A and CC40 products that were never officially released but which nevertheless managed to get into my hands as working software or hardware. This review is the first I have ever done of a product that never did exist.

PRESS is probably the most legendary piece of vaporware in the history of the 99/4A. I remember seeing it in September 1988 advertised in the Fall 1988 Triton catalog ("available November 1"), probably the only time Triton ever advertised a TI product sight unseen. I was impressed and wrote Osgard asking about its availability at the upcoming Chicago Faire. Chris Bobbitt responded with a two page personal letter listing many virtues of PRESS and I was hooked. Chris is a very good sales person. At the Chicago

show that year Chris said PRESS wasn't quite ready, but he took my check for \$60 and promised the product shortly. Two years later I got my uncashed check back. Charles Earl, the PRESS programmer never came through, but in the meantime Chris Bobbitt managed to sell himself and the rest of the TI community on this fantastic word processor.

I now have a copy of the September 1, 1989 beta test version of PRESS and its ready for release documentation. Having seen the software I'm glad I didn't purchase it. If completed it would have had a couple of significant features I don't like.

The documentation is very fancy looking and probably cost Asgard software a lot of money up front to print. You get a paper-with-plastic-coating box containing a 8x9 inch 3 ring plastic coated binder. Both the box and binder have professional artwork on the outside. The pages in the binder are professionally printed on heavy paper with plastic index tabs dividing the pages into different sections. In the back of the binder is the program disk (there are supposed to be 3 other disks containing the spelling checker) and a quick reference card. Very professional!

A little quote from the voluminous advertising text Chris put on the back of the box gives you some idea of why PRESS seemed so great to me and Chris Bobbitt back then. "PRESS has hundreds of features - including hundreds available in no other word processor for the TI99/4A or its compatibles. You can easily do things in PRESS that are difficult or impossible in TI-Writer or enhancements of it such as MY-Word."

The main advertised features are unlimited document size and on screen formatting, and a 100000 word built in spelling checker. Document size is limited only to the size of the mass storage medium, since only a piece of the document is in memory at any one time. With a hard drive I could easily have put my great American PhD dissertation all in one continuous file. This feature actually works in my Sept 1989 version. On screen formatting means there is no separate formatter. Right and left justification are shown on screen as you type (not yet in my Sept 1989 version). Double strike, underline, and italic, or any combination of these show up just like that on screen as you type (this is in my Sept 1989 version). Just like most PC word processors you can insert text and all the text to the right of the cursor just moves over one letter at a time to make room for your inserted text (not in my Sept 1989 version). Like a lot of PC word processors such as Word Perfect, many operations of PRESS are performed on blocks of text. Move the cursor next to the beginning of a block and press Fctn/B. Move the cursor down to the end of the block and press Fctn/B again (doesn't work on my version). Then delete or move or save only the blocked text.

My version comes with a mouse driver usable with the Myarc mouse on a Geneve. It is supposed to come with a bunch of printer drivers for common dot matrix printers so that you can print the fancy text displayed WYSIWYG on screen. My version has no printer drivers and I can't get it to print anything from its editor.

The software loads parts of itself off of disk as needed. The numerous features planned just couldn't be made by the programmer to properly fit into the 99/4A's limited memory. When your first boot PRESS you get a fancy title screen with a picture of an old fashioned printing press. Then you are asked for bitmap or text mode. Bitmap mode shows on screen all the fancy fonts. Text mode is faster but doesn't show the fancy fonts. You can still select italic, etc, but all looks the same on screen. Bitmap is slow, particularly at work wrap and at left/right up/down screen scrolling. Because of this slowness in redrawing the screen the software includes a keyboard buffer. You can type ahead of the screen and the screen will eventually catch up. Keyboard buffers are automatic in the PC world since they are built into the PC keyboard. PRESS is the only 99/4A software I know of that simulates a keyboard buffer.

After selecting bitmap or text if the software senses that you have an 80 column card or Geneve you are asked for 40 or 80 column display. You are then given the main menu which offers you EDIT DISK FORMAT PRINT SPELL CONFIG and QUIT. The 80 column display looks quite good with a white background. 40 columns are windowed right with Fctn/5 and (unlike TI Writer) left with Ctrl/5. Windowing in bitmap mode is kinda slow.

At startup from the main menu you must first choose DISK and then open a document. You enter a document name, then press Fctn/9 (back), then use the left arrow to move to EDIT, and then press <enter> to display the first part of the document. This seems to be to be a very cumbersome procedure. If you have a file in memory and you want to look at another file you first have to close the current file and then load in the next file. The procedure for closing a file is Fctn/9 (Back), then right arrow to DISK, then <enter>, then down arrow to "Close Document", then up arrow to "Open Document" to load in the next document. This also is a cumbersome procedure but there are hot key shortcuts to these commands.

I DON'T LIKE THE PRESS DISK FILE FORMAT. Minimum file size is 51 sectors! When you open a file, if the specified file isn't on disk a new empty file 51 sectors long is created with the open name you specified. Have a two sentence note you want saved? 51 sectors. How about a 1 page letter? 51 sectors. If you have a really long document it is saved in multiples of 50 sectors plus one file allocation sector (51, 101, 151, etc sectors long). This wastes lots and lots of disk space. Files are saved in DF255 format,

which means that only PRESS can read PRESS text files. PRESS is supposed to be able to import DV80 files into an already open PRESS document (cumbersome) and export its text to DV80 format. My beta test PRESS can't do these things. Like it or not DV80 is the text format standard in the 99/4A world. The inability to scan a disk of PRESS files on screen with a file viewer such as DM1000, DSKU, or Funnelweb is potentially very inconvenient. Because of the 51 sector minimum DF255 file format I would not now purchase PRESS even if I had the chance.

Here are the options available from each of the PRESS main menu headings. Most of these features can also be accessed directly using Ctrl or Fctn plus a letter key. You can also create macros which are user defined hot keys that invoke a specific chain of these commands. Macros can make some cumbersome repetitive keypresses easier and more user friendly.

EDIT. This puts you in edit mode and displays one screen of the current document. Most of the document is not in memory and remains in "virtual memory" on disk. As you write the document is continuously being saved to disk.

DISK. Open Document- do this before moving to EDIT. Close Document- this exits a document saving it. Merge Document- similar to TI Writer's mail/merge option. Get Document- merges a second document into the current document at the cursor position. Import File- Input a DV80 file into an already opened PRESS document. Export File- save text as DV80 with no left margin. Save Block- Saves a blocked part of current document as a separate smaller document while retaining current document on disk and in memory. Directory- of any path. You move the cursor next to a file name and press a key to open import copy delete protect get view move rename or unprotect the file and you can move forward and back among the directory tree structure of a hard drive. None of this Directory stuff works on my beta test version.

FORMAT. Vertical Dimensions- This gives you a sub menu that lists Top Margin, Bottom Margin, Lines/Page, Lines/Inch, and Line Spacing. Margins- which gives you a sub menu listing Left and Right. Tabs-. Indent-. Outdent-. Pitch- which gives you the sub menu 10 Chars/in, 12 Chars/in, Compressed, and Proportional. Justification- which gives you your choices of Left (even margins on left only), Right (even margins on right only), and Full (even margins on both sides). Header-. Footer-. Page Numset-. Center- which gives your choice of Page (vertically between top and bottom of page) and Text (current line centered between margins). Define Columns- in which your choices are Snaking (like a newspaper text goes to top of next column) and Parallel (for aligning tables of numbers). With each of these column types you get a new menu that says Automatic or Custom. Notes- include a short note with the document that is displayed on screen but not printed with the document.

PRINT. Current Document- with a sub menu listing Selected Pages, Range of Pages, All, or Merge. External Document- ie a PRESS file that isn't the one currently open. Select Printer- from the list of printer drivers (that doesn't exist in my beta version). Device Path- to redirect output to a disk file. Printer Feed Options- your choice of Continuous or Single Sheet. Insert Printer Code-.

SPELL. Word- the word under the cursor. Selected Pages-. Range of Pages-. Full Document-.

CONFIG. This does absolutely nothing in my beta version and there is nothing about this menu item in the docs. Presumably this lets you set up a path name for loading PRESS, a default printer with driver, and extra memory. The documentation says PRESS takes advantage of "extra memory in minimegs, supercards, etc." but it doesn't say what this memory is used for.

QUIT. This closes the current document and returns you to the TI title screen with just one keypress.

In conclusion, PRESS does some tricks that other TI word processors can't do, such as on screen underlining and italics. Nevertheless, the huge minimum file size and non standard file type would make many TI users unhappy. I talked to Jack Sughrue, a beta tester mentioned in the documentation, and he agrees with me about these two problem areas. I think Funnelweb, with its on screen right justification and IBM graphics, is now better than PRESS was supposed to be.

****DONE****

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THE MEANING OF FUNNELWEB'S FILES by Charles Good Lima Ohio User Group

Listed below are the Funnelweb files on our two 3 disk sets of complete 40 and 80 column sets. Next to each file is Charles Good's DSKU comment detailing the function of that particular file. These are all the current files from v4.4 and v5.01 for 40 columns, and from v4.4 and v5.21 for 80 columns. Any of the original v4.4 files not listed below are now obsolete. Any user can obtain either or both of these 3 disk sets by sending 3 disks and a paid return mailer to me at P.O. Box 647, Venedocia Ohio 45894.

40 Column files, Disk 1 of 3. Main system files

Filename	TYPE	Comment
AS	PGM	Assembly code ASSEMBLER part 1
AT	PGM	Assembly code ASSEMBLER part 2
C1	PGM	Char set for use by central menus
C2	PGM	Another char set for central menus
CF	PGM	Configures all funnelweb but editor
CG	PGM	part 2 of funnelweb config program (NOTE: 8 bit char sets have All Chars graphics)
CHAR@1	PGM	USA 8 bit IBM graphics char set
CHAR@2	PGM	British 8 bit IBM graphics charset
CHAR@3	PGM	French 8 bit IBM graphics char set
CHAR@4	PGM	German 8 bit IBM graphics char set
CHAR@5	PGM	Italian 8 bit IBM graphics char set
CHAR@6	PGM	Swedish 8 bit IBM graphics char set
CHAR@7	PGM	Dutch 8 bit IBM graphics char set
CHAR@8	PGM	Spanish 8 bit IBM graphic char set (NOTE: These 7 bit char sets used in Eurowriter mode)
CHARA1	PGM	British 7 bit national char set
CHARB1	PGM	French 7 bit national char set
CHARC1	PGM	German 7 bit national char set
CHARD1	PGM	Italian 7 bit national char set
CHARE1	PGM	Swedish 7 bit national char set
CHARF1	PGM	Dutch 7 bit national char set
CHAR@1	PGM	No Spanish national 7 bit char set
CONFIG/40	D/V	Expanded editor config data file
D1	PGM	"Disk Utilities" user list
DR	PGM	40 column Disk Review, part 1
DS	PGM	40 column Disk Review part 2
EA	PGM	Needed on disk for FW loaders work
ED	PGM	8 bit v5.01 40 column editor, part 1
EE	PGM	8 bit v5.01 40 column editor, part 2
F4TXAE	PGM	British 40 column editor command line
F4TXBE	PGM	French 40 col editor command line
F4TXCE	PGM	German 40 col editor command line
F4TXDE	PGM	Italian 40 col editor command line
F4TXEE	PGM	Swedish 40 col editor command line
F4TXFE	PGM	Dutch 40 col editor command line
FO	PGM	Text formatter part 1
FP	PGM	Text formatter part 2
FW	PGM	MAIN FW PROGRAM FILE, boots as EAS

HELP4A	PGM	40 col help screen
HELP4B	PGM	40 col help screen
HELP4C	PGM	40 col help screen
HELP4D	PGM	40 col help screen
HELP4E	PGM	40 col editor help screen
HELP4F	PGM	40 col editor help screen
HELP4G	PGM	40 col editor help screen
HELP4H	PGM	40 col editor help screen
HELP4I	PGM	40 col editor help screen
HELP4J	PGM	40 col editor help screen
INSTALL/ED	PGM	40 col editor config software
LL	PGM	LOW LOADER, needed to boot LL files
LOAD	PGM	MAIN FW PROGRAM FILE, boots from XB
NL	PGM	40 column MULTI LIST user list
QD	PGM	QUICK DIRECTORY, use with formatter
QF	PGM	part 2 of QUICK DIRECTORY
SL	PGM	Needed to boot script load files
SYSCON	PGM	CF/CG configuration data file
UL	PGM	Central menu "User List"

40 column files. Disk 2 of 3. Other system files, docs

Filename	Type	Comment
-READ-ME	D/V	General v4.4 overview doc
44REVIEW	D/V	C. Good's review of v4.4
4PRINTFILE	D/V	Sample source for editor help file
5-01REVIEW	D/V	C Good's review of v5.01 editor
5-0REVIEW	D/V	C Good's review of v5.0 editor
AR	PGM	Archiver v3.03
C99PFI;0	D/F	Used with C99 from within funnelweb
CHARA1	PGM	Char set for use with DSKU
CHARUTIL	PGM	Converts custom chars to 8 bit set
CHRCAL/S	D/V	Char set source code sample
COM/ED	D/V	Condensed editor config data file
CP	PGM	Boots c99 & returns to funnelweb
CT8K/D	D/F	Boots funnelweb from supercart
DU	PGM	Birdwell's DSKU v4.2 part 1
DV	PGM	DSKU v4.2 part 2
DW	PGM	DSKU v4.2 part 3
ED-BASIC	PGM	Basic 7 bit 40 col editor, part 1
EE-BASIC	PGM	Basic 7 bit v5.01 40 col editor pt2
FSAVE	D/F	SAVE utility to make EAS programs
FWDOC/EASH	D/V	PROGRAM EDITOR doc
FWDOC/LOAD	D/V	The XB LOAD menu doc
FWDOC/REPT	D/V	Bug and update report of FW & LOAD
HELPMAKE40	PGM	Turns DV80 source into 40col ed help
LDFW	D/F	Boots FW from Minimer or EA module
M6	PGM	DM1000 v3.5 part 1 of 2
MH	PGM	DM1000 v3.5 part 2
SCRIPT	D/V	Sample SL file
XB4THLD	PGM	Boots 11 FORTH from XB menu

40 column files. Disk 3 of 3. Documentation files

Filename	Type	Comment
FWDOC/DR40	D/V	40 col Disk Review doc pt 1
FWDOC/DR41	D/V	40 col Disk Review doc part 2

FWDOC/EASM D/V PROGRAM EDITOR doc

FWDOC/ED40 D/V v5.01 40 col editor doc part 1

FWDOC/ED41 D/V v5.01 40 col editor doc part 2

FWDOC/ED42 D/V v5.01 40 col editor doc part 3

FWDOC/PSRV D/V Assembly links to FW doc

FWDOC/SCLL D/V SL,UL,LL, and ML40/80 doc

FWDOC/UTIL D/V CF,CP,FSAVE,LDFW,UL,LH,CTBK/O doc

80 column system/Disk 1 of 3. Main system files

Filename Type Comment

AS	PGM Assembly code ASSEMBLER part 1
AT	PGM Assembly code ASSEMBLER part 2
C1	PGM Char set for use by central menus
C2	PGM Another char set for use by central
CF	PGM Configures all funnelweb but editor
CG	PGM part 2 of funnelweb config program
(NOTE: The 8 bit char sets have IBM graphics)	
CHAR@1	PGM USA 8 bit IBM graphics char set
CHAR@2	PGM British 8 bit IBM graphic char set
CHAR@3	PGM French 8 bit IBM graphic char set
CHAR@4	PGM German 8 bit IBM graphic char set
CHAR@5	PGM Italian 8 bit IBM graphic char set
CHAR@6	PGM Swedish 8 bit IBM graphic char set
CHAR@7	PGM Dutch 8 bit IBM graphic char set
CHAR@8	PGM Spanish 8 bit IBM graphic char set
(NOTE: 7 bit char sets are for Eurowriter mode)	
CHARA1	PGM USA 7 bit char set
CHARB1	PGM British 7 bit national char set
CHARC1	PGM French 7 bit national char set
CHARD1	PGM German 8 bit national char set
CHAR@1	PGM Swedish 7 bit national char set
CHARF1	PGM Dutch 7 bit national char set
CHARG1	PGM Spanish 7 bit national char set
DR	PGM 80 column Disk Review part 1
DS	PGM 80 column Disk Review part 2
EA	PGM Needed on disk for FW loaders work
ED	PGM v5.21 80 column editor, part 1
EE	PGM v5.21 80 column editor part 2
EF	PGM v5.21 80 column editor part 3
FBTXBE	PGM French command line for v5.21editor
FBTXCE	PGM German command line for v5.21editor
FBTXEE	PGM Swedish command line for v5.21editor
FQ	PGM Text formatter part 1
FP	PGM Text formatter part 1
FW	PGM MAIN FW PROGRAM FILE, boots as EAS
HELPSP	D/V Program editor help file for v5.21
HELPSW	D/V Text editor help file for v5.21
LOAD	PGM MAIN FW PROGRAM FILE, boots from XB
ML	PGM 80 column MULTI LIST user list
WD	PGM QUICK DIRECTORY use with formatter
WF	PGM part 2 of QUICK DIRECTORY
SYSCON	PGM CF/CG configuration data file
UL	PGM Central menu "User List"

80 column system/Disk 2 of 3. Other system files, ed doc
Filename Type Comment

S-01REVIEW	D/V C Good's review of v5.01 editor
AR	PGM No Archiver v3.03
C99PF1;0	D/F Used with C99 from within funnelweb
CHARA1	PGM Char set for use with DSKU
CON/ED	D/F Short version of CONFIG/ED
CONFIG/ED	D/V Configuration data/use with INSTALL80
CP	PGM Boots c99 & returns to funnelweb
CTBK/O	D/F Boots funnelweb from supercart
DU	PGM DSKU v4.2 part 1
DV	PGM DSKU v4.2 part 2
DW	PGM DSKU v4.2 part 3
FSAVE	D/F SAVE utility to make EAS programs
FWDOC/E128	D/V Doc for v5.21 80 column editor
INSTALL80	PGM Configures v5.21 80 col editor
LDFW	D/F Boots FW from Minimec or EA module
LH	PGM LINE HUNTER assembly utility
LL	PGM LOW LOADER, needed to boot LL files
MG	PGM DM1000 v3.5
MH	PGM DM1000 v3.5
SCRIPT	D/V Sample SL file
SL	PGM Needed to boot script load files
XB4THLD	PGM Boots TI FORTH from XB menu

80 column system/Disk 3 of 3. Docs

Filename Type Comment

-READ-ME	D/V General v4.4 overview doc
4\$4REVIEW	D/V C. Good's review of v4.4
FWDOC/DR80	D/V column Disk Review doc
FWDOC/DR81	D/V column Disk Review doc
FWDOC/DR82	D/V column Disk Review doc
FWDOC/EASM	D/V Editor/assembler doc
FWDOC/LOAD	D/V The XB LOAD menu doc
FWDOC/PSRV	D/V
FWDOC/REPT	D/V Bug and update report of FW & LOAD
FWDOC/SCLL	D/V SL,UL,LL, and ML40/80 doc
FWDOC/UTIL	D/V CF,CP,FSAVE,LDFW,UL,LH,CTBK/O doc

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