

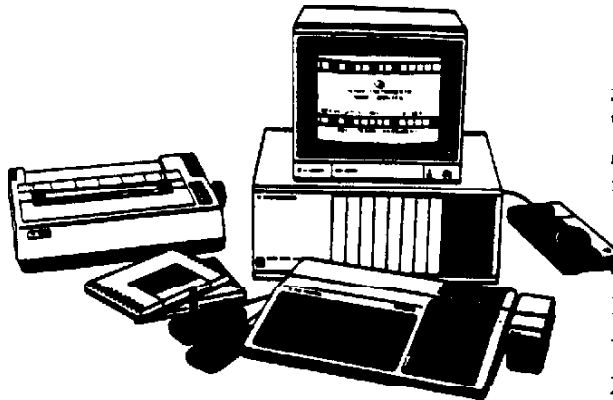
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JUNE 1988 NEWSLETTER
VOL 8 NUM 6

JUNE							JULY						
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This newsletter is the official publication of the AMARILLO 99/4A USERS GROUP, a non-profit organization serving member/users of the Texas Instruments 99/4A HOME COMPUTER and compatibles.

INSIDE THIS NEWSLETTER

Minutes of last meeting
President's Article
Editor's Comments
Treasurer's Report
STARFLEET drawings
Thumball Modification

FENNELWEB 4.0 DOCS
NOTE: A GENEVE IS COMING!
TI 99/5
Bits and Bytes
Computer Humor
Swap and Sell

* * * TEXAS INSTRUMENTS * * *
Do you have their number?

TI CARES : 1-800-842-2737
TI MANUALS : 806-741-2265
TECHNICAL ASS'T : 806-741-2663

The Amarillo 99/4A Users Group(AUG) releases its newsletter 12 times annually in Amarillo, Texas. Material contained within this newsletter has been freely compiled from various sources (cited when ever possible). While every attempt has been made to provide high quality factual and interesting articles, the AUG and its editorial staff cannot accept responsibility for errors in advertising or text appearing in this newsletter. Any articles concerning hardware modifications are printed with the understanding that the modifications void the warranty and are undertaken at the reader's own risk!

----- DISCLAIMER -----

The Amarillo 99/4A Users Group (AUG) is not affiliated with Texas Instruments and has no type of relationship with them, either implied or otherwise. WE are an independent non profit organization. Views expressed in this newsletter do not necessarily reflect the views of the group.

===== ADVERTISING RATES =====

For best results, each ad must be on white photocopy ready media. The AUG is not held liable for any damages exceeding the cost of advertising. Members of the AUG are permitted to advertise TI equipment in the Swap and Sell section at no cost.

FULL PAGE	\$10.00
HALF PAGE	5.00
QUARTER PAGE	3.00
BUSINESS CARD	2.00

SHARE YOUR KNOWLEDGE

Keep other TI99ers in touch with your work by contributing articles, programs and helpful tips. If you want to grow and prosper then your help is needed and appreciated by the officers and staff of the AUG. For information about submitting articles, call Sam Burton - Editor, at (806)-352-1778.

We welcome papers, tutorials and application articles. Length should be 400-500 words. We prefer delivery by mail or on a 5 1/4 diskette using TI-Writer compatible format. Double spaced, letter quality hard copy is acceptable. Original computer art work (TI-Artist or MAX-RLE files) are welcome. Please include a short biography and author's telephone number.

FROM THE EDITOR:

June is in the air and we seem to be well into a lovely summer here in the panhandle of Texas! The Dallas TI Fair has come and gone and school is out for most kids across the country. It has been very hectic getting the newsletters out these passed few weeks. The good news is that my wife Vicky and I are expecting our first child in October. So, time will be precious indeed and will certainly make deadlines hard to meet. As secretary I keep our group listed in COMPUTER SHOPPER and answer any letters and requests for information. The mail is just about caught up (the three day weekend really helped out a lot). We have been getting several requests for GENEVE support and new members trying to get started with garage sale systems.

It is now a full year since I took the office of secretary and about six months since taking over the office of editor of our group newsletter. I wish I could say that I always got the newsletter out on time but several times the work just did not get done. I am of course responsible for delays and missed deadlines. I know I will need some more help in the weeks to come.

The TI community seems healthy enough but what we need is more growth. The people who are going to switch to other computer probably have already done so. We need to find those shut ins who are still using the TI but don't know about the Users Group. How can we reach those people? Advertise...Post Memos...Talk to people...Handout flyers...these seem like good ways to start. Other groups in larger cities seem very lucky to have several hundred members and are able to host FAIRS on a yearly basis. Our group will be fortunate to have it's first GENEVE owner this month. That's right the new TI 99/4A compatible is finally here in Amarillo! Steve Eggers will try to demo the 9640 at our next meeting... this is one meeting you won't want to miss!

In this issue I've tried to get lots of information into some kind of reasonably coherent form. What do you think of the STAR TREK graphics of Mr. Barackman? He spent many hours making those drawing for TI ARTIST/ DISPLAY MASTER demonstration. They are very reasonably priced and can be ordered from address in the ADS section of the newsletter. I also received my film back from photos taken at the FAIR. If time permits I'd like to do a slide show and pass around the pictures at our next meeting.

This newsletter has a lot to offer this month. I'm continuing the Modifications Manual, Humor Page, Swap and Sell, and Programs section of the newsletter. Write me a letter, send me your graphics, and share your ideas. Send me any interesting computer articles or cartoons. I need them for the humor page. Get involved See you at the next meeting.

SAMUEL BURTON



MINUTES.....BY SAMUEL RM BURTON

The meeting was called to order by Joe Slutz at 7:15 PM.

Old Business consisted of FAIRE information. Attending officers were: Joe Slutz(President), Steve Eggers(Vice President), Sam Burton(Secretary and Editor), Diana Woods(Treasurer). Joe then continued the meeting with software demonstrations.

New Business consisted of a treasurer's report. \$256.00 makes up our current balance. Joe read a list of dues paying members and let everyone know their individual membership status.

Steve Eggers demonstrated the 4AFLYER cartridge. Several other flight simulators were discussed. (Sam Burton demonstrated a flight simulator program at the last meeting.) TI-ARTIST art work on STARFLEET technical drawings by Mr. STEVE BRACKMANS was then shown and well received by the group. (See the ad section for ordering details). The various other programs purchased at the Dallas Faire were presented by Joe Slutz. A demo of GREAT LAKES SOFTWARE program CALENDAR 99 was a real hit! Finally you can make calandars with graphics combined. The small instances were really impressive and added a lot to the usually bland calendars generated by other programs. The group meeting was followed by discussion and adjourned at 8:30 PM.

Two new TI users were introduced: Leon Miller and Justin Miller - let us welcome these new comers!

ATTENDING WERE: Joe Slutz, Steve Eggers, Sam Burton, Diana Woods, Fred Dennis, James Billingsley, Larry DeSierra, Erwin Kohn, Jake Fortenberry, Frank Aleman, Robert McGaughey, Leon Miller, Justin Miller

***** TREASURER'S REPORT *****
JUNE 1988

FOR THE PERIOD MAY 1 - MAY 31

CASH ON HAND, BEGIN	\$ 276.26
CASH RECEIPTS	00.00
CASH AVAILABLE	276.26
CASH DISBURSED	20.00
CASH ON HAND , END	256.26

RESPECTFULLY SUBMITTED: DIANA WOODS, TREASURER AUG

This is page six of a continuing effort to log in a coherent and easily used manual the many known TI hardware modifications that are of interest to the more technically inclined user. This month's additions come to us from Douglas Garner and others of the Langley Research Center, Hampton Virginia. It is a thumb ball for the joystick of your dreams! It is only a suggested model but will work if constructed. It brings to mind that the TI 99 premium joystick was built for the Milton Bradley Xpansion (MBX) System. I wish somebody would release the codes to program it!

"Thumbball" Auxiliary Data-Input Device

A track-ball-type device is mounted on a joystick and operated by a thumb.

Langley Research Center, Hampton, Virginia

The Thumbball is designed to enable the precise input of data about two different axes to an autopilot, avionics computer, or other electronic device without the need for the operator to remove his or her hands from the joystick or other vehicle control levers.

The Thumbball mechanism (see figure) includes a ball retained in a socket in the end of the control handle in such a way that it is free to rotate. Two rollers are pressed by spring-loaded bearings against the ball at points 90° apart about its circumference. As the ball is turned by the operator's thumb, friction drives the two rollers and their respective disks through angles proportional to the rotation of the ball about its x and y axes. This well-known mechanism, called a spherical integrator, simply resolves the motion of the ball into its components about the x and y axes.

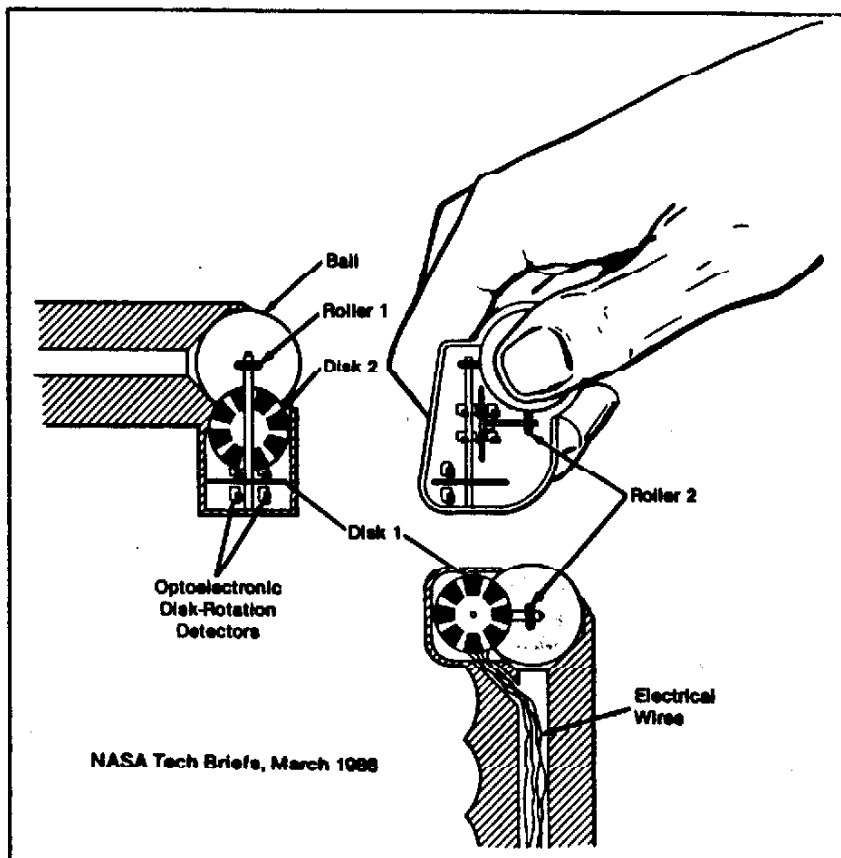
The two disks are made of transparent material and have a pattern of dark and transparent sectors printed on their surfaces. A pair of light sources and a pair of photodetectors are mounted on opposite sides of each disk in such a way that, as the disk rotates, light is alternately transmitted to and cut off from the photodetectors. As the disk rotates, the outputs of its two photodetectors produce two square waves, displaced from each other by 90°. The direction of the displacement is an indication of the direction of rotation of the disk, and the number of pulses produced is a measure of the amount of rotation of the disk. The square waves are passed through suitable decoding logic that converts them into a series of clockwise or counterclockwise pulses that can be fed directly to the autopilot or avionics compu-

ter to effect a change in heading and/or pitch trim, to reposition a cursor on the screen of a cathode-ray tube, or to make any other precise adjustment required.

This work was done by H. Douglas Garner, Anthony M. Busquets, Thomas W. Hogge, and Russell V. Parrish of Langley Research Center. For further information,

Circle 24 on the TSP Request Card.

This invention is owned by NASA, and a patent application has been filed. Inquiries concerning nonexclusive or exclusive license for its commercial development should be addressed to the Patent Counsel, Langley Research Center [see page 16]. Refer to LAR-13626.



The Thumbball Mechanism is mounted on the end of a joystick.

HHH HHH IIIIIIIIII
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 HHHHHHHHHH III
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 HHH HHH IIIIIIIIII
 HHH HHH IIIIIIIIII

and Cheerio. Well, it's time for another newsletter and I am all ready to get going and all fired up about getting into the swing of things for June. I am very pleased to see the new members in the users group and I hope that we can get some more. I am interested in programming in TMS 9900 Assembly language so I can try a thought that I have going through my head at this point in time. The idea I have is to make an Icon environment on the 99/4A using the mouse and have pull down menus. I hope that it can be done without running out of memory and having to get a 128k card.

I recently got a P-Code card from Sam Burton, and it was broken. So, I sent it to TI and in two days I got it back, and along with a new P-Code card, I also recieved all the UCSD p-SYSTEM manuals! I find this very generous of Texas Instruments. I thank them for this.

Talking to a friend in Dallas, he told me that there were a few unreleased games from TI that might interest our users such as Joust (Atarisoft) and Battlestar Gallactica (TI) and many more. We have one, Lasso, and we need to get some more. Well not much more to say, See you at the Meeting!!!!!!!!!!!!

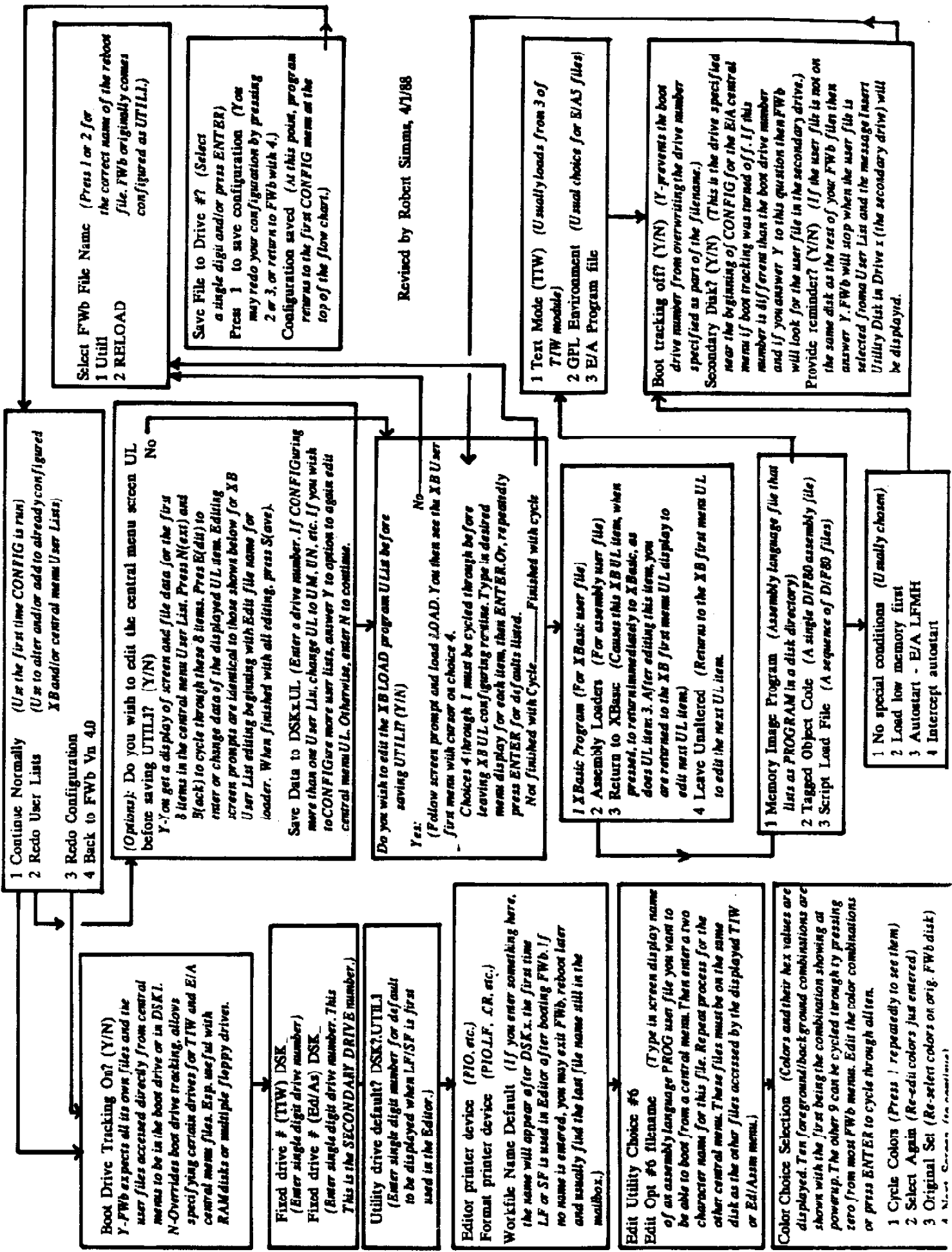
Steve Eggers

FOR SALE:

- Peripheral Expansion Box with 32K, disk controller and drive.....\$190.00*
 - Empty expansion box w/flex cable.....\$40.00*
 - UCSD P-Code card with manuals.....\$150.00*
 - Mechatronics TI-MOUSE w/software.....\$150.00*
 - 4A FLYER flight simulator cartridge.....\$20.00*
- CALL STEVE EGGERS at 353-6867 evenings*



FUNNELWEB 4.0 CONFIGURE PROGRAM FLOW CHART



Revised by Robert Simms, 4/1/88

Select FWb File Name (Press 1 or 2 for the correct name of the reboot file. FWb originally comes configured as UTIL1.)

1 UTIL1
2 RELOAD

Save File to Drive #? (Select a single digit and/or press ENTER) Press 1 to save configuration (You may redo your configuration by pressing 2 or 3, or return to FWb with 4.) Configuration saved (At this point, program returns to the first CONFIG menu at the top of the flow chart.)

1 Continue Normally (Use the first time CONFIG is run)
2 Redo User Lists (Use to alter and/or add to already configured XB and/or central menus User Lists)
3 Redo Configuration
4 Back to FWb Vn 4.0

(Options): Do you wish to edit the central menu screen UL before saving UTIL1? (Y/N)
Y-You get a display of screen and file data for the first 8 items in the central menu User List. Press N(Exit) and B(Back) to cycle through these 8 items. Press E(Exit) to enter or change data of the displayed UL item. Editing screen prompts are identical to those shown below for XB User List editing beginning with Edit file name for loader. When finished with all editing, press S(ave).
Save Data to DSKx.UL (Enter a drive number. If CONFIGuring more than one User List, change UL to UM, UN, etc. If you wish to CONFIGure more user lists, answer Y to option to again edit central menu.UL. Otherwise, enter N to continue.)

Do you wish to edit the XB LOAD program UL list before saving UTIL1? (Y/N)
Yes:
(Follow screen prompts and load LOAD. You then see the XB User first menu with cursor on choice 4.
Choices 4 through 1 must be cycled through before leaving XB UL configuring routine. Type in desired menu display for each item, then ENTER. Or, repeatedly press ENTER for defaults listed.
Not finished with Cycle _____ Finished with cycle _____

1 XBasic Program (For XBasic user file)
2 Assembly Loaders (For assembly user file)
3 Return to XBasic (Causes this XB UL item, when pressed, to return immediately to XBasic, as does UL item 3. After editing this item, you are returned to the XB first menu UL display to edit next UL item)
4 Leave Unaltered (Returns to the XB first menu UL to edit the next UL item)

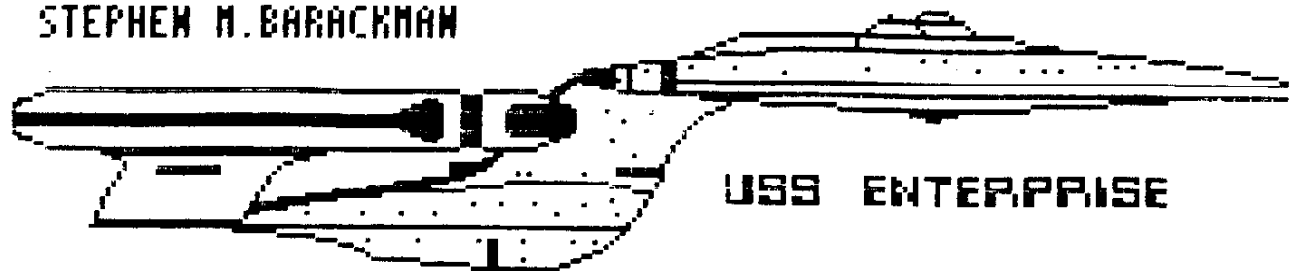
1 Memory Image Program (Assembly language file that lists as PROGRAM in a disk directory)
2 Tagged Object Code (A single DIF80 assembly file)
3 Script Load File (A sequence of DIF80 files)

1 No special conditions (Usually chosen)
2 Load low memory first
3 Autostart - E/A LFMH
4 Intercept autostart

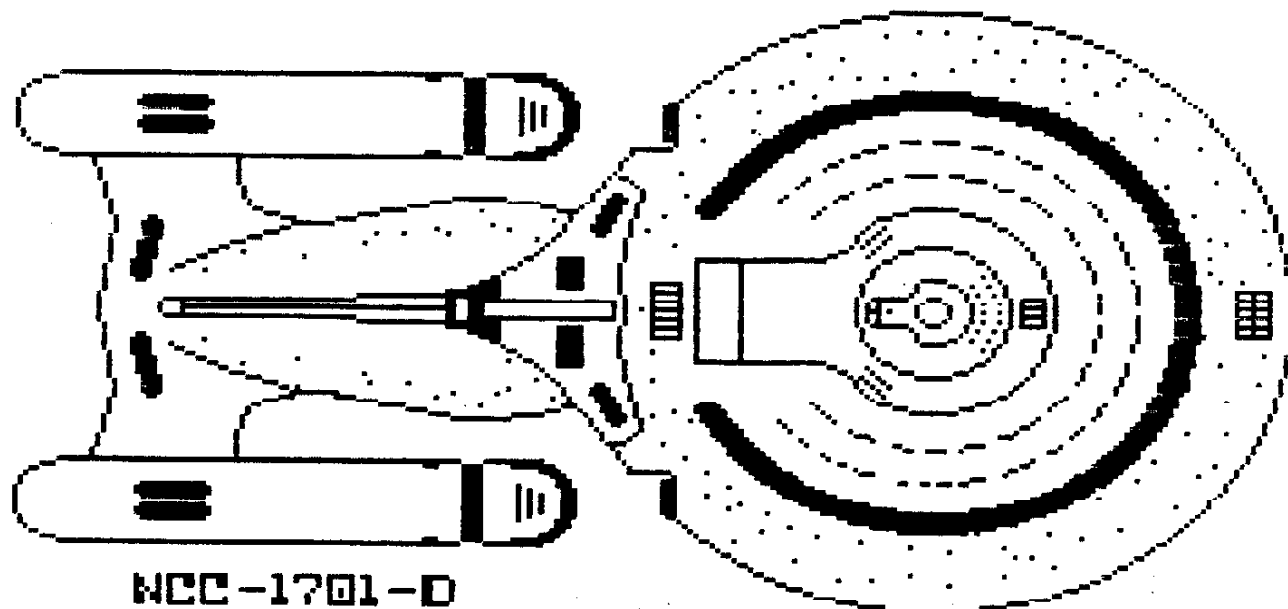
1 Text Mode (TIW) (Usually loads from 3 of TIW module)
2 GPL Environment (Usual choice for E/As files)
3 E/A Program file

Boot tracking off? (Y/N) (Y-prevents the boot drive number from overwriting the drive number specified as part of the filename.)
Secondary Disk? (Y/N) (This is the drive specified near the beginning of CONFIG for the E/A central menu. If boot tracking was turned off, if this number is different than the boot drive number and if you answer Y to this question then FWb will look for the user file in the secondary drive.)
Provide reminder? (Y/N) (If the user file is not on the same disk as the rest of your FWb files then answer Y. FWb will stop when the user file is selected from a User List and the message Insert Utility Disk in Drive x (the secondary drive) will be displayed.)

STEPHEN M. BARACKMAN



USS ENTERPRISE



NCC-1701-D

STARFLEET



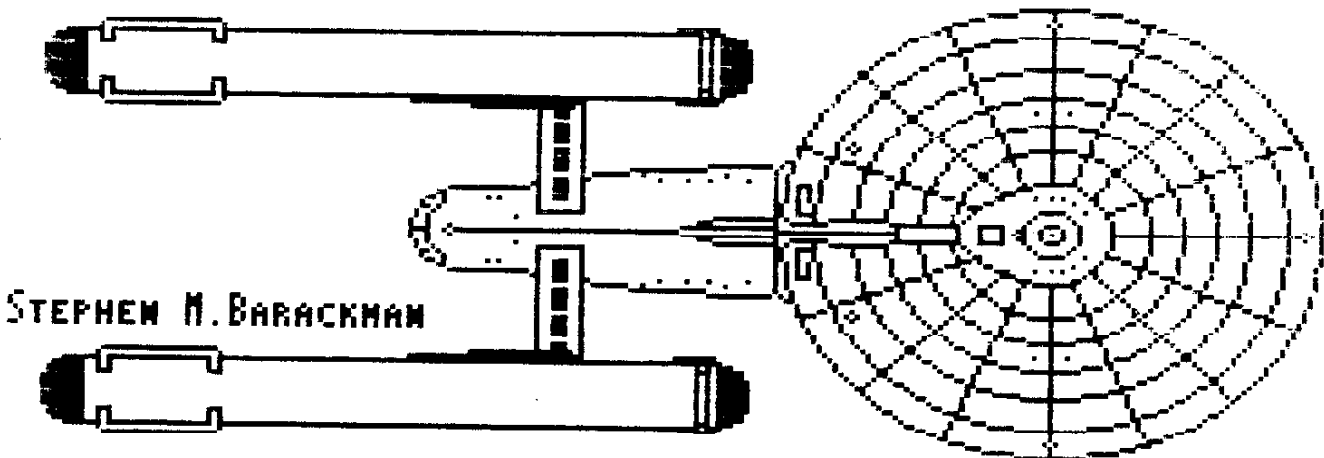
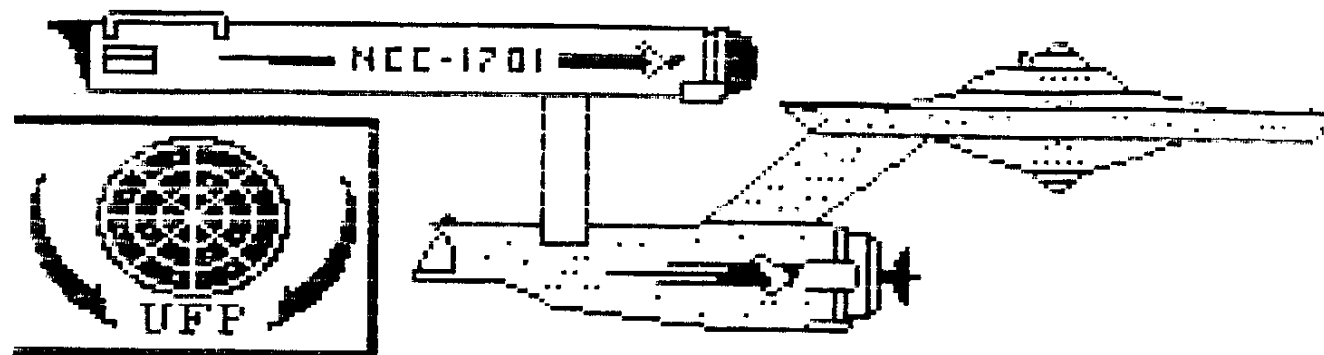
USS ENTERPRISE

UNITED
FEDERATION
OF
PLANETS



DRAWN BY

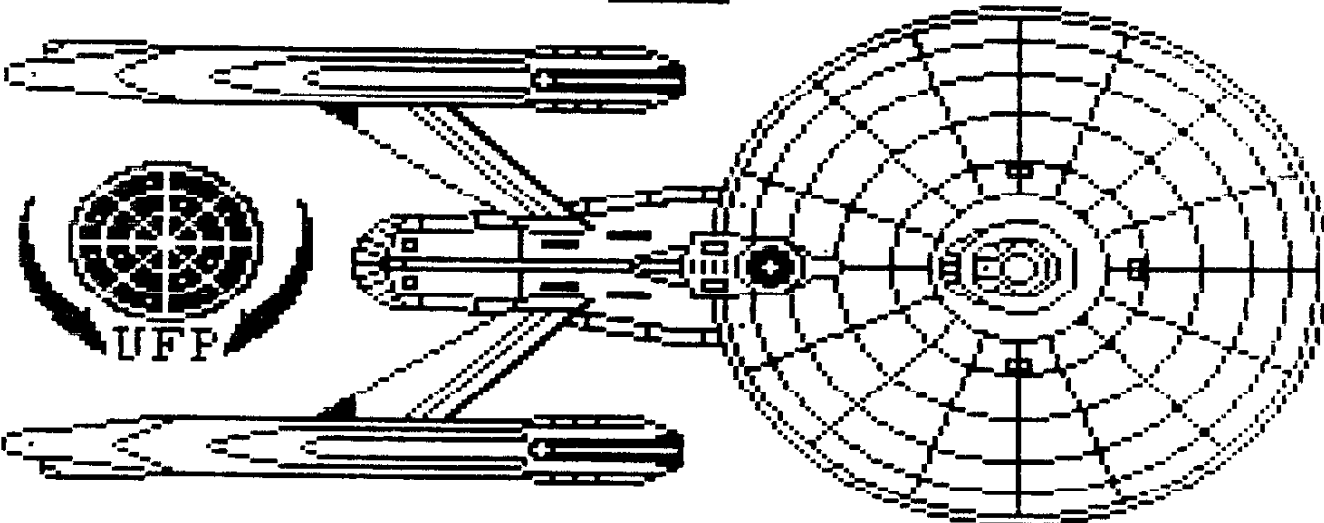
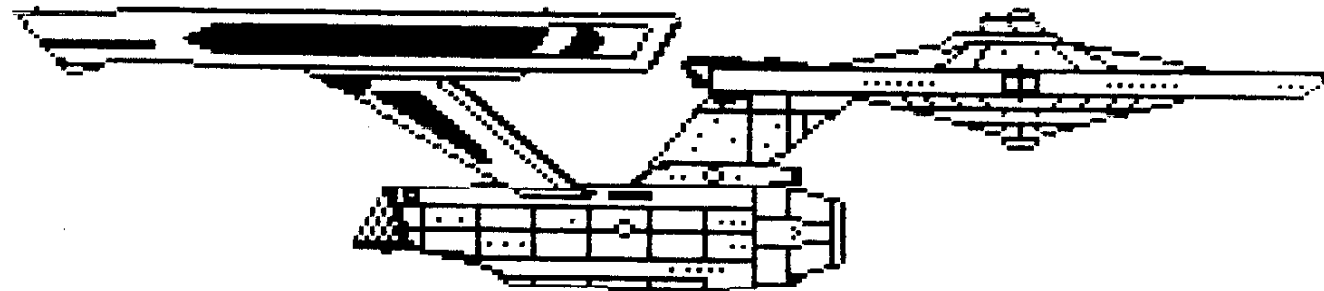
Stephen M. Barackman



STEPHEN M. BARACKMAN

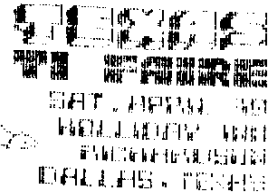
NCC 1701

U.S.S. ENTERPRISE



N.C.C. 1701A

U.S.S. ENTERPRISE



Sam Burton

Bits and Bytes.....by Sam Burton

Our Users Group is listed in a national magazine , check out this month's Computer Shopper in your local bookstore.(When we get our BBS running I will try to get it listed as well.

If you need ANYTHING for your TI call 352-4778 or contact Fred Dennis at 355-3868.

IMPORTANT!!!- This next meeting Steve Eggers will demo his new GENEVE computer. You will want to see this machine in action!

DID YOU KNOW THAT TI STILL SUPPORTS THE TI COMMUNITY?

Sure enough that is the sign of a good company...customer service. We usually hear negative comment from other vendors but Texas Instruments does not need to do anything for the 99er community yet still does provide information, repairs, and diagnostic aids. (I bet IBM PC jr. users wish they had that kind of support from IBM.)

Our mailing rates are getting more expensive all the time...please consider this fact when the vote for raising dues is taken. (An alternative would be to apply for non-profit group status.)

The Dallas Fair photos and slides are in! I will try to get a projector reserved for the next meeting.

ONE LAST TIME FOR THOSE WHO MAY HAVE MISSED IT...Get your latest TI-WRITER Manual Update from Dick Altman. He rewrote that whole manual into an easier to read version. It can be run interactive with TI-WRITER to give you direct use of the instructions in a real application mode. This is available on disk from Dick at no charge! Please be sure to support the reproduction and mailing costs or he'll loose his enthusiasm. The address is DICK ALTMAN

1053 SCHRADER STREET
TEL #(415)-661-1994 SAN FRANCISCO, CA 94117

Our group MICROPENDIUM subscription runs out next month so I have sent in our renewal. These magazines are available from the secretary. Newsletters from other groups are stored in the main library metal files (first floor). If your not reading them your missing a lot of good information on your TI home computer. Ask for more details.....

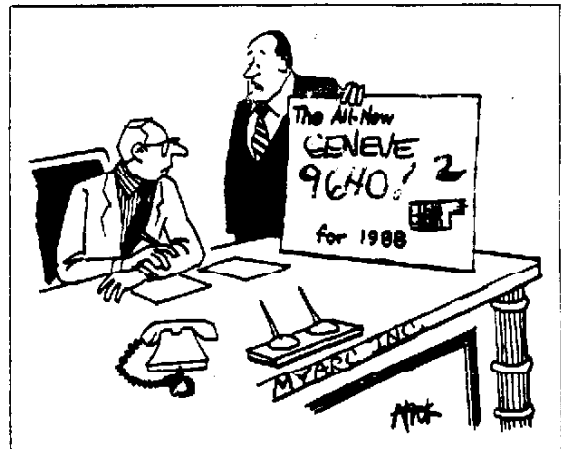
If you like golfing you will like PAR-FORE. This 3d graphics program will be demonstrated at the next meeting. Come prepared to enjoy yourself!!!!

Assembly Language Humor

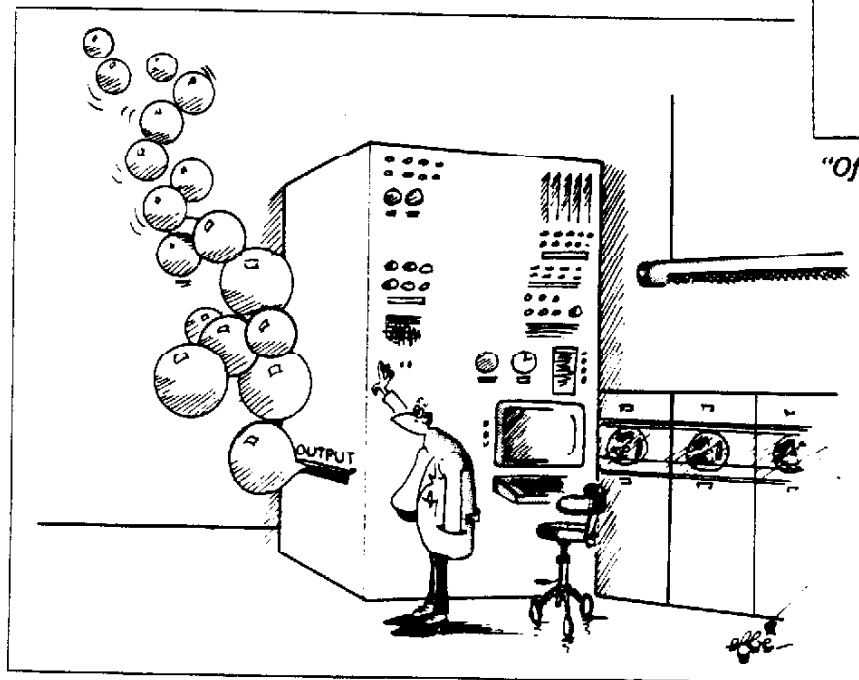
Everybody is familiar with the programmers guide. Here is one for the assembly language programmers.

BH	BRANCH AND HANG	RIRG	READ INTER-RECORD GAP
BST	BACKSPACE AND STRETCH TAPE	RLF	REVERSE LINE FEED
COCF	CONDENSE DISC AND CROSS FILES	RL	RANDOM LOGIN LOCKOUT
CKSF	CONVERT KEY TREE TO SEQUENTIAL FILE	RPA	RANDOMIZE PORT ASSIGNMENTS
CN	CIRCULATE MEMORY	RS	RANDOM SLEW
CPPD	CRITICAL POINT POWER DUMP	SFFR	SET FALSE FORWARD OR FAST FORWARD AND REMIND
CRN	CONVERT TO ROMAN NUMERALS	SFOP	SET FALSE OUT-OF-PAPER CONDITION
DAD	DIVIDE AND OVERFLOW	SFTT	STRIP FROM TRACTOR TEETH
EB	ERASE DIRECTORY	SH	SPONTANEOUS HALT
EDR	EXECUTE DESTRUCTIVE READ	SMD	SPONTANEOUS MEMORY DUMP
EIDE	ERASE INSTRUCTION BEFORE EXECUTION	SPE	SET PARITY ERROR SPEC
EIDC	EXECUTE INVALID OP CODE	SRSO	SEEK RECORD AND SCAR DISC
EMU	EMULATE SYSTEM 3	SRZ	SUBTRACT AND RESET TO ZERO
ERCF	EXTRACT RECORD AND CROSS FILE	SSB	SCRAMBLE STATUS BYTE
ESP	ERASE SECTOR POOL	SSJ	SELECT STACKER AND JAM
FOTA	FAULT ONLY ON TECHNICIAN'S ABSENCE	SSSD	SEEK SPINDLE SHAFT AND DESTRUCT
FSRA	FORM SKIP AND RUN AWAY	SMP	SELECT WRONG PRINTER
HCF	HALT AND CATCH FIRE	UDR	UPDATE AND DELETE RECORD
IDPS	IGNORE DISC WRITE PROTECT SWITCH	USML	URGENT-SENSITIVE MODEN LOCKUP
IEDF	IGNORE END OF FILE	WMLR	WRITE WRONG LENGTH RECORD
IETH	IGNORE END OF TAPE MARKER		
IFL	INVERT FORWARD LINK		
IIB	IGNORE INTERRUPT AND BRANCH		
IRAC	INJECT RANDOM ASCII CHARACTERS		
LCM	LOAD AND CLEAR MEMORY		
MLR	MOVE AND LOSE RECORD		
PACSP	PRINT ALL CHARACTERS IN SAME POSITION		
PBD	PRINT AND BREAK DRUM		
PPL	PERFORM PERPETUAL LOOP		
RAST	READ AND SHRED TAPE		
RCR	REWIND CARD READER		
RI	RANDOM IGNORE		

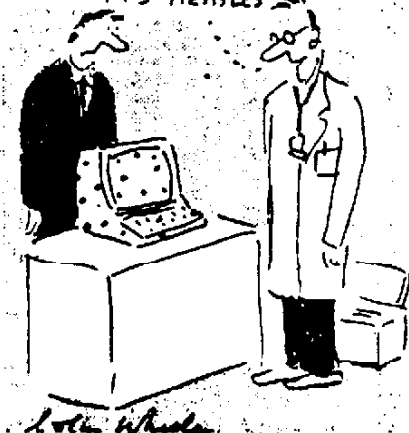
From The Cleveland Free Net, (216) 368-3888.



"Of course, if it doesn't run, we could all be in big trouble."



COULD BE WORSE - IT'S MEASLES



TI-99/4A SUPPLIERS
 Courtesy of Janet Ryan
 NUTMEG TI-99ERS Users Group
 12/12/87
 Via SFV Times 1/88
 Updated by
 Barry Long
 Central Pa 99/4A Users Group
 1/26/88

FROM NET 99ERS
 APRIL 1988

Codes: S=software H=Hardware K=Keyboards P=Publication * =Catalog Available

- | | | |
|---|--|---|
| AMNION HELPLINE (S)
114 Carl St.
San Francisco, CA 94117
(415) 753-5581 | MCCANN SOFTWARE (S)
P.O. Box 34160
Omaha, NE 68134 | TENEX COMPUTER EXPRESS (SH)
P.O. Box 6578
South Bend, IN 46660
(219) 259-7051 (info)
(800) 348-2778 (order line)
(800) 259-7053 (order stat) |
| ARMADILLO BYTES (SH*)
Box 181662
Dallas, TX 75218
(214) 328-9257
(also hardware repairs) | MILLERS GRAPHICS (SH*)
1475 W. Cypress
San Dimas, CA 91773 | TEX-COMP (SH*)
P.O. Box 33084
Granada Hills, CA 91344
(818)-366-6631 |
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Rockville, MD 20850
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BOX 268
Valley Falls, RI 02864 | TEXAMENTS (S*)
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Patchogue, NY 11772
(516) 475-3480 |
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(317) 423-4879 | MYARC, INC. (SH*)
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P.O. Box 8123
San Francisco, CA 94128
(800) 227-6900 |
| DATABITOICS, INC (SH*)
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Portland, OR 97214 | VIDEOVISION (SH*)
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Grafton, MA 01519
(617) 839-4134 |
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San Diego, CA 92103 | PILGRIMS PRIDE (SH*)
P.O. Box 2
S. Williams Lane
Hatboro, PA 19040
(215) 441-4262 | MICROpendium (P)
P.O. Box 1343
Round Rock, TX 78680
TI-99/4A monthly news
publication (GOOD!) |
| DISC ONLY SOFTWARE (SH*)
P.O. Box 4170
Rockville, MD 20850 | QUALITY 99 SOFTWARE (S*)
1884 Columbia Rd #1021
Washington, DC 20009
(202) 667-3374 | COMPUTER SHOPPER (P)
P.O. Box 1419
Titusville, FL 32781-9988
(800) 327-9926
May be purchased locally |
| ENHANCED PC PURSUIT SERV.
GTE Telenet Comm. Corp.
12490 Sunrise Valley Dr.
Reston, VA 22096
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1-800-833-0001 24 hrs | QUEEN ANNE COMPUTER
SHOPPE (SH*)
6102 ROOSEVELT WAY N.E.
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(206) 283-0953 | CORCOMP (SH*)
2211-G Winston Rd
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(714) 956-4450 |
| GENIAL COMPUTERWARE (SP)
833 Green Valley Dr.
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("DISC-A-ZINE") | RAVE 99 Co. (KH)
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(203) 872-9272 | THE BUNYARD GROUP
P.O. Box 53171
Lubbock, TX 79453
Manual for TI (hardware) |
| GREAT LAKES SOFTWARE (S*)
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Columbus, OH 43213 |
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Walbridge, OH 43465
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210 Mountain St.
Haliburton, Ontario
K0M 1S0
(705) 457-277 (order) | |
| INNOVATIVE PROGRAMMING (S)
P.O. Box 2737
Rohnert Park, CA 94928
(707) 585-3922 | T.A.P.E. Ltd. (SH*)
1439 Solano Pl.
Ontario, CA 91764
(714) 989-9906 | |

Note: Discontinuing support

The Peripheral Shoppe



- New half-height DS/DD disk drives - \$80.00
- Used half-height DS/DD disk drives - \$50.00
- TI external disk drive assembly - \$60.00
- TI RS-232 card for P.E. box - \$60.00
- CorComp RS-232 card for PEB - \$40.00
- Unitech Modem/Speakerphone - \$40.00
- Volksmodem with TI cable - \$20.00
- Radio Shack Modem 1B - \$20.00
- TI speech synthesizer - \$25.00
- TI joysticks (set of 2) - \$10.00
- TI-WRITER package - \$20.00
- TI LOGO package \$20.00
- Disk Fixer module \$10.00
- 25 original PLATO DISKS (make offer)

Call Fred Dennis at 355-3868 (evenings)

WANTED: TI COLOR MONITOR in good shape.....
Call Sam Burton 352-4778 after 6 PM

Wanted :Your sellable TI items....call Sam Burton

FOR SALE: Various Cartridge Games (\$5-10)
2 Modems 300 baud rate
TI-Writer in Original unopened package
3 complete starter consoles(power supply,RF
mod,books) \$60.00 /each

PE-BOX (32K,disk controller,ss Shugart drive,RS 232
flex cable, all cards original TI equipment)
\$320.00

32k memory expansion card (TI original) \$90.00
RS 232 card (TI original) \$80.00

TI tape recorder with cables \$45.00
Call Sam Burton

FOR SALE:Console, PE BOX, monochrome monitor, and various
cartridges....\$300.00.....call Richard Whitehead
352-5281

FOR SALE: Mechatronics Mouse for your TI system.. works with
TI-Artist. Call Steven Eggers \$150.00

NOTICE: The Swap and Sell section of this newsletter is
provided for your computer needs. Should you have an item to
sell or swap let the editor put your ads here at NO CHARGE.

FOR SALE OR TRADE:

TI-99/4A black console with
Rave-99 keyboard \$150.00

TI expansion box with 32K &
single disk drive \$125.00

Complete system - \$250.00

Call Mike Phillips in Lubbock
at 791-4894 (evenings)

