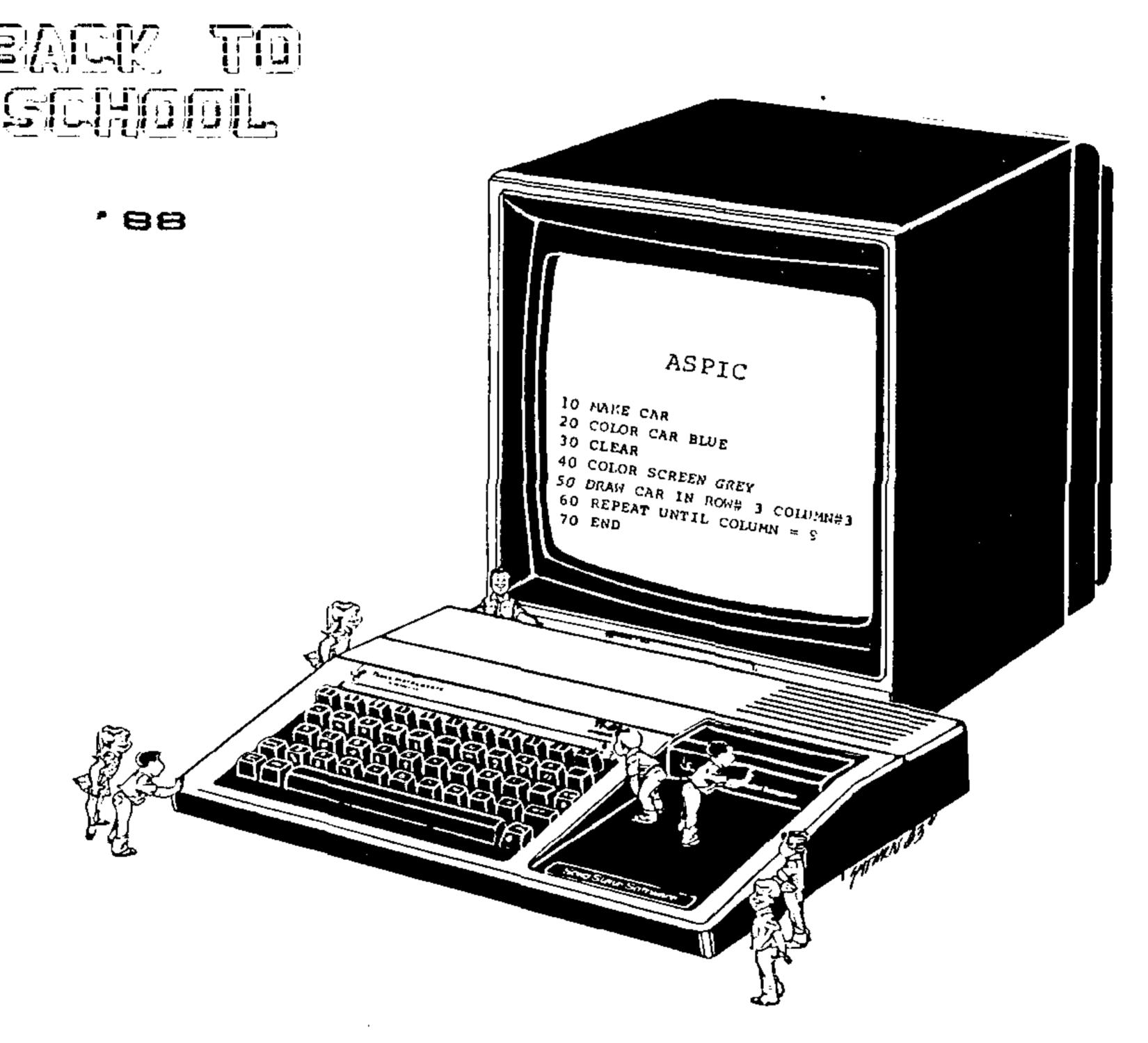


THE OFFICIAL NEWSLETTER OF THE CENTRAL DHIO NINETY-NINERS INC.

PUBLISHED MONTHLY IN COLUMBUS OHIO



A Language for Children

\$1.50 VOL.6 NO.9

SEPT

1988

THE OPPOSITE OF CENTRAL ORIGINATIONS



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Other non-profit user groups may use material from this newsletter only if source and credit is given.

Central Ohio Ninety Niners Inc. is a non profit organization comprised of ME MBERS who own or use the TI99/4A computer and it's related pro -ducts and have paid a yearly membership fee of \$28.00 and whose main objective is the exchange of Educational and inform-Scientific ation for the purpose of computer literacy.

C.O.N.N.I. meetings are held the 2nd Sat -urday of each month at the Martin Janis Senior Center - East Eleventh Ave, at the State fair-Ohio grounds. Meeting time is at 9 am. Meetings are open to the public. Membership dues (\$28.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member. (An application has been placed in this newsletter for your convenience) Please address it to: EVERETT WADE 179 ERIE ROAD COLUMBUS, OH 43214 ADVERTISEMENT:

We do accept commercial advertisement at The following rates: Business Card(2x3.5):

\$5.00/issue 1/4 Page: \$25.00 1/2 Page: \$45.00

Full Page: \$75.00 Write this newsletter for other size arrang -ements.

All ads should be submitted (camera ready) to advertising address above, payment enclosed. Members ads are published at no cost. (Limit of 25 words and must not be commercial please.)

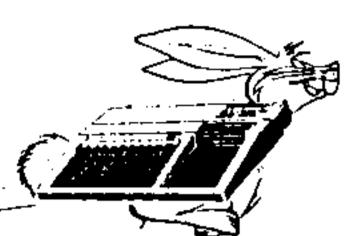
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ANNOUNCEMENTS



DON'T BE SLOW-PAY YOUR DUES



Dues are usually paid at or before the March meeting, and are \$28 per year for full membership, library and voting privileges, plus the newsletter. You may also pay your dues in two installments if desired: \$14 in March and \$14 in September. If only the newsletter is desired, then payment is \$20 per year. Those who join during other months of the year pay a lesser, prorated amount:

Mar---28.00 Apr---25.75 May---23.50 Jun---21.00 Jul---18.75 Aug---16.50 Sep---14.00 Oct---11.25 Nov----9.50 Dec----7.00 Jan----4.75 Feb----2.50

Fill out an application blank (one on the back of this newsletter), make a check out to C.O.N.N.I. and give it to Everett Wade, the membership registrar, at one of the meetings or mail to him at the following address:

Everett Wade

179 Erie Rd

Columbus, OH 43214

9 AM Library open - Raffle Bulletins available Registration - Membership
Officers meeting to plan
October Anniversary

9:35 AM Question and Answer session Hardware SIG - Cassette SIG Genealogy SIG 10:00 AM Demo Jean Eyerman - Safety with Safety

10:20 AM Business Meeting

10:55 AM Demo-John Cummings - Part II PRBASE

12:00 PM End - building must be locked

++++++++++++++++++++++

At each Saturday
meeting and hopefully
each evening meeting as
well, Curt Borders will
be leading a group designed to help members
add hardware options and
modifications to their
equipment. All welcome.

Sept- Dick+Lorita Beery



PASCAL PROGRAMMING by Bud Wright

Highlights of Lima conference on Video tape - edited and presented by John Parkins

NEXT WEDNESDAY EVENING MEETING - SEPTEMBER 28 SEE YOU THERE!!!!!!!!



by Dick Beery

After a month with no column to write, i feel kind of a desperate need to play catch up. Therefore, this will be a mixed bag of items.

At the August Saturday meeting, the minners of the programming contest were announced. Top minner was Ralph Lathouse, who submitted three programs, two in Assembly and one in Extended Basic. The Assembly programs were conversions from Decimal to Hex, and the reverse. The Extended Basic program was a loan amortization.

Other winners, with their programsian alphabetical order): Tim Brooks with a novelty program titled "Bugs"; Jim Klein with a cryptogram solver; Kevin Noesner with a musical program "Moonlight Sonata"; and Jon Van Minkle with a mortgage calculation program. All were in Basic or Extended Basic. The winners received various kinds of software selected to coincide with their interests. The programs will appear, one or more at a time, in this newsletter. The grand prize, awarded to Ralph Lathouse, was a year's free membership in C.O.N.N.I.

The August Evening meeting, on Wednesday, August 24, will feature: Programming with Pascal presented by Bud Wright, and highlights of the Lima Faire videocassette, edited and presented by John Parkins. This will have taken place by the time you receive your newsletter, but I wanted you to know what you missed?

On Saturday, September 10, John Cummings will present part II of his demo on setting up and printing with PR-Base. Both parts (and ii will soon be videotaped and made available to those who missed one or both. Try to make it to this one!

NEW PRODUCTS: Genial Computerware, P.O. Box 183, Grafton, MA 01519, announced on August 15 the debut of one exciting new product and revision of an earlier one. Revised is Graphics Expander(c) which now has the ability to shrink graphics and fonts, in addition to its regular capabilities. The BIG announcement, especially for you fans of graphics, is MacFlix(c), which allows you to "view, print, and save industry standard MacPaint graphics with your computer...these images are a full 8 by 10 inches...if you have an Epson compatible or

ProWriter printer the image day to these images have high-res quality, and even more! Natch saved to either My-Art(c) format. And even more! Natch for a review soon in this journal. The announcement included the new database by Narren Agee titled FirstBase(c) which is to be released by August 28. (Maybe, instead of version 2.1, 3.2, etc., they'll move us to 2ndBase...and finally HomePlate!). To be serious again, it is reportedly a leader for TI/9640 in the area of databases.

In the field of Genealogy databases, I made oblique reference in an earlier issue to a new Australian offering written in Assembly. It is Genealogical Data Base(c) by Allan Wright, 77 Andrew Rd. VALENTINE 2280, N.S.W. AUSTRALIA. Members of C.O.N.N.I. can receive their copy by contacting Jean Hall, and are of course expected to send their Fairware offering to Allan. Other readers may send their orders directly to Allan, or may contact Chuck Brimes, C.O.N.N.I. disk librarian using the club's mailing address, and have a copy mailed to them. Among the numerous superlative features of the program are its capacity for storing siblings, and a cross-referencing capability that permits entering and relating both maternal and paternal lines. Plus more! It even includes a help file for the beginning genealogist. Either Jean Hall or I hope to present a detailed review of this program in a month or two, after we have had the opportunity to use it more extensively.

Jean recently bought the TI-Count program, and needs help setting up the General Ledger. If you can assist, please write or call her.

BBS program so that now you no longer have to wait for private and deleted messages to scroll past while waiting to read the next public message. A new Title Screen is in the works and should soon be complete, also. Thanks, Irwin.

The Brooks informs us that those of you who are looking for a good-quality Hayes-compatible 1200 baud modem can get an Avatex 1200hc for about \$79.00 from: Lyco, 1-800-233-8760. I am using an Avatex-e myself and find it both capable and dependable. The company is located in Pennsylvania.

Hats off to Jean, who though recently afflicted with a painful, though hopefully minor, illness, got the August one page newsletter substitution out on time, and is again on target with the September issue. Very few people have that kind of courage and dedication. We all salute you, Jean.



GETTING THE MOST FROM YOUR CASSETTE SYSTEM BY MICKEY SCHMITT NUMBER 9

UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES PART I

(Ed. note: Thanks to Mickey Schmitt and the West Penn 99'ers Club).

UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES IS NOT QUITE AS DIFFICULT AS IT MAY SEEM. UNFORTUNATELY, TRYING TO FIND A LIST OF THE ERROR CODES AND MESSAGES THAT DEAL SPECIFICALLY WITH THE CASSETTE RECORDER HAS BEEN A DIFFICULT TASK! IN DOING MY RESEARCH FOR THIS PARTICULAR ARTICLE, I HAVE HAD TO COMBINE MANY DIFFERENT SOURCES OF INFORMATION - IN ORDER TO BE AS INFORMATIVE AND AS COMPLETE AS POSSIBLE.

BASICALLY, CASSETTE ERROR CODES AND MESSAGES CAN OCCUR DURING ONE OF TWO DIFFERENT TYPES OF COMMANDS. MORE SPECIFICALLY, I AM REFERRING TO THE "LOADING" (OLD CS1) PROCEDURE AND THE "SAVING" (SAVE CS1) PROCEDURE.

THIS MONTH I WILL BE EXAMINING THE ERROR CODES AND MESSAGES THAT CAN OCCUR DURING THE "LOADING" (OLD CS1) PROCEDURE.

WHEN THE COMPUTER FINISHES LOADING THE DATA, IT TELLS YOU WHETHER OR NOT IT READ THE DATA PROPERLY. IF THE DATA WERE READ CORRECTLY, YOU WOULD SEE THE FOLLOWING MESSAGE APPEAR ON YOUR MONITOR OR TV SCREEN:

- * DATA OK
- * PRESS CASSETTE STOP CS1
 THEN PRESS ENTER
- IF, HOWEVER, THE COMPUTER DID NOT SUCCESSFULLY READ YOUR PROGRAM INTO MEMORY, AN ERROR OCCURS AND THE COMPUTER PRINTS ONE OF THE FOLLOWING ERROR MESSAGES:

WHEN THIS OCCURS - YOU HAVE A CHOICE OF USING ONE OF THE FOLLOWING THREE OPTIONS: NOTE, HOWEVER, THAT THE SINGLE-LETTER RESPONSES (R - C - E) THAT YOU TYPE IN AT THIS TIME MUST BE IN UPPER-CASE CHARACTERS!

- 1. PRESS R TO REPEAT THE READING PROCEDURE. HOWEVER, BEFORE REPEATING THIS PROCEDURE, CHECK TO MAKE SURE THAT YOU HAVE PUT THE CASSETTE TAPE IN CORRECTLY THAT IT IS THE CORRECT CASSETTE TAPE AND THAT IT HAS BEEN PLACED IN THE CASSETTE RECORDER WITH THE CORRECT SIDE FACING UP. THEN FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN.
- 2. PRESS C TO CHECK THE DATA YOU HAVE READ INTO MEMORY. AT THIS POINT YOU MAY WISH TO ADJUST YOUR CASSETTE RECORDER'S VOLUME CONTROL AND TONE SETTING. THEN FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN.
- 3. PRESS E TO EXIT FROM THE LOADING PROCEDURE. AT THIS TIME ANOTHER ERROR MESSAGE IS DISPLAYED, INDICATING THAT THE COMPUTER DID NOT PROPERLY READ YOUR PROGRAM INTO MEMORY:
 - * WARNING: CHECK PROGRAM IN MEMORY
 - * 1/0 ERROR 56

IF I/O ERROR 56 APPEARS, SOMETHING DEFINITELY WENT WRONG. BUT DON'T PANIC! GENERALLY SPEAKING, WHEN THE ERROR MESSAGE "ERROR - NO DATA FOUND" OCCURS - THE COMPUTER DID NOT RECOGNIZE THE CASSETTE RECORDER AT ALL DURING THE "OLD CS1" ROUTINE. ON THE OTHER HAND - WHEN THE ERROR MESSAGE "ERROR DETECTED IN DATA" OCCURS - THE COMPUTER RECOGNIZED ONLY PART OF THE DATA THAT THE CASSETTE RECORDER WAS SENDING TO THE COMPUTER. WHEN THIS HAPPENS, RECHECK YOUR CASSETTE RECORDER'S VOLUME CONTROL AND TONE SETTING. THEN RECHECK YOUR CASSETTE CABLE. MAKE SURE THAT BOTH ENDS OF THE CABLE ARE ATTACHED TO THE COMPUTER AND TO THE CASSETTE RECORDER. WHILE YOU ARE AT IT - MAKE SURE THAT THE COLOR-CODED WIRES LEADING TO THE CASSETTE RECORDER ARE CONNECTED CORRECTLY. THE CASSETTE RECORDER WILL NOT OPERATE PROPERLY IF THE COLOR-CODED WIRES ARE REVERSED!



(Ed. note: Thanks to Stan Katzman and the West Penn 99'ers Club).

Well, let's continue our discussion of dot commands in the Formatter. The next commands I want to discuss control the number of lines on a page (.PL __), if you want to have the document double or triple spaced (.LS _) and if you want to skip some lines in your document (.SP _).

Let's start with (.PL _) the page length command. The default setting for the number of lines on a page in T.I. Writer is 66. You cannot have more but you can have less. To do this, at the start of your document type .PL 60 press (ENTER). Now type ' your document. When your document is put through the Formatter there will be only 60 lines per page. If you want 55 just enter 55 in place of the 60 (or whatever you want to have).

The default setting for spacing in the Formatter is single spacing. If you want your document to be double spaced or triple spaced just type .LS 2 - press ENTER at the head of your document for double spacing or .LS 3 - press ENTER for triple spacing.

If you want, say, five blank lines, for some reason, in your document, on a separate line unto itself, type .SP 5 - press ENTER and the Formatter will skip five lines and then continue printing the rest of your document.

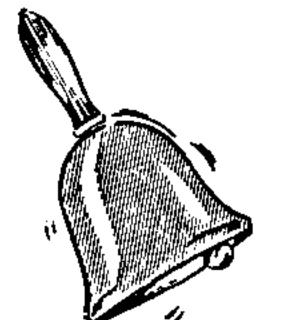
What I am going to discuss now is a handy feature but not dot commands. In the beginning of the Formatter there is a time when it says "What pages (A)". Meaning what pages do you want printed from a multipart document. If you just press enter it will print all pages from I until the end. If you want selected pages printed out, just enter them as

described next. Say we want to print page 6, pages 12 through 15 and 22 to the end, type the following in response to the "What Pages" question, 6,12-15,22-E and only those designated pages will to printed out.

As kind of a close out, I would like to show you what the Formatting (dot) commands would look like for a document to have margins of L 17, R 77, double spaced, right adjusted and a page length of 50.

- .LM 17<ENTER>
- .RM 77<ENTER>
- .FIKENTER>
- .LS 2<ENTER>
- .AD<ENTER>
- .PL 58(ENTER>

Try these Formatting commands and happy "processing".



NEW FREEWARE

* * BALLRANK * *

 \triangle

FOOTBALL

RANKING AND RATING

PROGRAM

This is a series of software programs and forms that can aid a football fan in determining expected scores and pointspread of up-coming games each week. It uses the primary source of data from Game Plan College Football Annual Preview, a publication of Sports Associates Inc.

The program requires: EXTENDED BASIC, MULTIPLAN, SIDE*PRINT, 32K MEMORY EXPANSION, AT LEAST 1 DISK DRIVE, AND A COMPATABLE PRINTER. The output is presented for a hard copy only, and does not appear on the monitor. The programs are for PIO parallel, but may be changed to RS232 if desired.

The POINTSPREAD program is used to update the previous week's scoring into new values to be used for the next week's games. It outputs the expected score, as well as the pointspread. This data gives an indication of the most likely winner.

The RATING program uses the data printed in the newspaper to produce data showing the strengths and weaknesses of each team, and "paints" a picture of how the game was played.

The RANKING program is produced on MULTIPLAN, and the SIDE*PRINT program produces the hard copy. The SIDE*PRINT program is available elsewhere and is not FREEWARE. You may obtain a copy of SIDE*PRINT from Jim Swedlow, 7301 Kirby Way, Stanton, CA 90680.

During the 1987 season I ran data on 451 games, and picked 323 winners, or 71.6% of the games. For the bowl games I picked the winner in 8 out of 14 games for 57.1%.

There are filenames for producing the different forms required for data.

For those wanting a copy of these programs they MUST send the following: 1-SS/SD FLOPPY DISK IN A DISK MAILER, RETURN POSTAGE, AND RETURN ADDRESS LABEL. THIS IS THE ONLY WAY I WILL GIVE A COPY!!! I CANNOT ACCEPT MONEY FOR COPYING.

ALLAN COX 728 JEFFERSON BLVD. TARRANT, AL 35217 (205) 849-5592

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5 **2**



TWO JOYSTICKS IN ONE

by CURTIS BORDERS

THIS IS HOW I MADE TWO JOYSTICKS OUT OF ONE.

FIRST YOU WILL NEED ONE OF THOSE SURPLUS JOYSTICK CABLES. ALL THE PINS WILL HAVE TO BE THERE WITH THE EXCEPTION OF PINS 1 AND 6.

PINS 1 AND 6 ARE NOT USED ON THE TI-994-A. YOU CAN GET ONE AT "STAR SURPLUS" ON N. HIGH ST. IN COLUMBUS. THEY SELL FOR ABOUT \$1.99.

OK, NOW THAT WE HAVE THE CABLE, TAKE YOUR FAVORITE JOYSTICK-IT CAN BE ATARI, BOSS, EPSX500XJ OR WICO, BUT I WOULD NOT WASTE MY TIME ON TI-99 JOYSTICKS.

TAKE THE JOYSTICK APART AND UNSOLDER THE CABLE FROM THE CONNECTORS, ALL BUT THE GROUND OR (COMMON), THAT'S THE WIRE THAT CONNECTS ALL THE PADS TOGETHER.

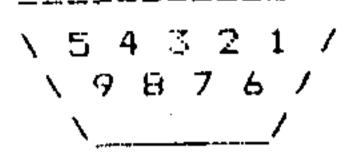
TAKE YOUR NEW CABLE AND A OHM METER AND WRITE DOWN ALL THE PIN NUMBERS AND WHAT COLOR WIDE

COLOR CODES MAY NOT BE THE SAME.
TAKE THECOLOR WIRE FROM PIN 2 TO ONE OF THE OUTSIDE TERMINALS OF THE SWITCH.
TAKE THECOLOR WIRE FROM PIN 7 TO THE OTHER SIDE OF THE SWITCH.
TAKE A SHORT PIECE OF WIRE FROM THE CENTER OF THE SWITCH AND SOLDER IT TO THE GROUND OR (COMMON). IF THE SWITCH IS WIRED UP RIGHT WHEN IT IS IN ONE POSITION YOU WILL BE USING JOYSTICK NUMBER 1, WHEN IT IS IN THE OTHER POSITION YOU WILL BE USING JOYSRICK NUMBER 2.
TAKE THECOLOR WIRE FROM PIN 3 TO THE JOYSTICK UP POSITION.
TAKE THECOLOR WIRE FROM PIN 8 TO THE JOYSTICK DOWN POSITION.
TAKE THECOLOR WIRE FROM PIN 9 TO THE JOYSTICK RIGHT POSITION.
TAKE THECOLOR WIRE FROM PIN 5 TO THE JOYSTICK LEFT POSITION.
TAKE THECOLOR WIRE FROM PIN 4 TO THE JOYSTICK FIRE

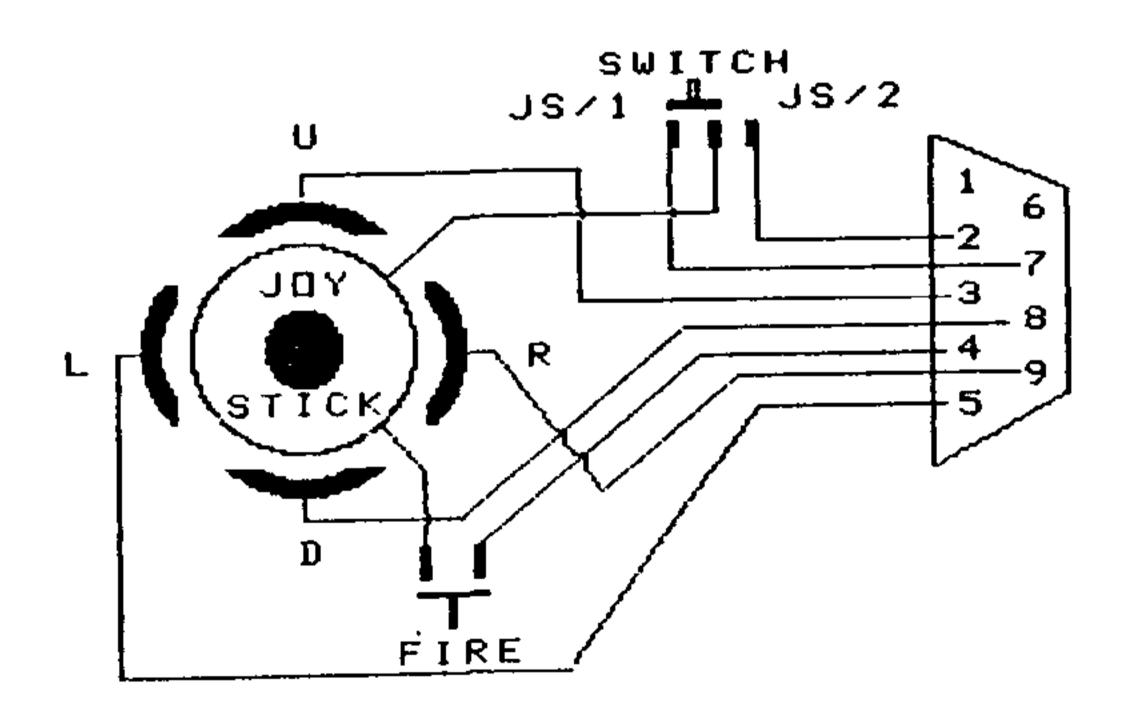
GROUND OR (COMMON).

BUTTON, THE OTHER SIDE OF THE FIRE BUTTON WILL GO TO

JOYSTICK PIN OUT



PIN	USE
	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
1	NOT USED
2	COMMON LINE JOYST #2
3	UP
4	FIRE
5	LEFT
6	NOT USED
7	COMMON LINE JOYST #1
8	DOMN
9	RIGHT





#51

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TIGERCUB SOFTWARE 156 Collingwood Ave. Columbus, OH 43213

Software to TI-99/4A Users broups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

Over 120 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST \$1.00 EACH!, plus \$1.50 per order for cassette or disk and PP&M. Minimum order of \$10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Handy Dandy series, and Color Programing Tutor, are no longer available on cassette.

Descriptive catalogs, while they last, \$1.00 which is deductable from your first order.

Tigercub Full Disk Collections, reduced to \$5 postpaid. Each of these contains
either 5 or 6 of my regular
catalog programs, and the
remaining disk space has
been filled with some of the
best public domain programs
of the same category. I am
NOT selling public domain
programs — they are a free
bonus!

TIGERCUB'S BEST, FROGRAMMING
TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN
TEASERS, BRAIN BUSTERS!,
MANEUVERING GAMES, ACTION
GAMES, REFLEX AND CONCENTRATION, TWO-PLAYER GAMES,
KID GAMES, MORE GAMES, WORD
GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCAB-

ULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

NUTS & BOLTS DISKS

These are full disks of 100 or more utility subprograms in MERGE format, which you can merge into your own programs and use, almost like having another hundred CALLs available in Extended Basic. Each is accompanied by printed documentation giving an example of the use of each. NUIS & BOLTS (No. 1) has 100 subprograms, a tutorial on using them, and 5 pp. documentation, NUTS & BOLTS No. 2 has 108 subprograms, 10 pp. documentation. NUTS & BOLTS #3 has 140 subprograms and 11 pp. of documentation. NOW JUST \$15 EACH, POSTPALD.

These are full disks which contain the programs and routines from the Tips from the Tips from the Tipercub newsletters, in ready-to-run program format, plus text files of tips and instructions.

TIPS (Vol. 1) contains 50 original programs and files from Tips newsletters No. 1 through No. 14. TIPS VOL. 2 contains over 60 programs and files from Nos. 15 thru 24. TIPS VOL. 3 has another 62 from Nos. 25 through 32. TIPS VOL. 4 has 48 more from issues No. 33 through 41. NOW JUST \$10 EACH, POSTPAID.

NOW READY

1 TIPS FROM TIGERCUB VOL.5

1 Another 49 programs and 4

1 files from issues No. 42

1 through 50. Also \$10 ppd \$

1 through 50. Also \$10 ppd \$1

TIGERCUB CARE DISKS #1,#2,#3 and #4. Full disks of text files (printer required).
No. 1 contains the Tips news letters #42 thru #45, etc.
Nos. 2 and 3 have articles mostly on Extended Basic

Tips newsletters Nos. 46-52. These were prepared for user group newsletter editors but are available to anyone else for \$5 each postpaid.

. I believe this word game is totally different from anything you have ever seen, and very challenging if you don't use the AID key. The first time you run it, pick option 3 to create a file of phrases and give it the file name COMPUTE. This will then become the computer's file, option 1, and you can create as many of your own files as you want. Recommend phrases of several to as many as 20 words - short ones are too difficult.

100 DIM W\$(20):: DIM D\$(20)
110 60T0 150
120 D\$,K.S,B.F\$.E,FLAG.X,J,X
\$,Y\$.A,B,M\$,DY\$,V,A\$(),C\$,CH
.CH\$,Y,W\$(),L.M,D\$(),F,Z,C,R
.H
130 CALL CHAR :: CALL KEY ::
CALL SOUND :: CALL CLEAR ::
CALL SCREEN :: CALL COLOR
:: CALL SCREEN :: CALL VCHAR
:: CALL SPRITE :: CALL LOCA
TE :: CALL DELSPRITE
140 !@P150 CALL CHAR(94, "3C4299A1A1
99423C"):: DISPLAY AT(2,1)ER
ASF ALL: TIGERCUB SHUTTLESEA

99423C"):: DISPLAY AT(2,1)ER
ASE ALL: TIGERCUB SHUTTLESEA
RCH V.1.1": "": "^ Tigercub So
ftware for free": "distributi
on but no price"
160 DISPLAY AT(6,1): "or copy

ing fee to be charged":"":"!

f you should feel moved to":
"send me a few bucks for my"
:"work, I won't be offended!

terson*: "156 Collingwood Ave
.": "Columbus, OH 43213"
180 DISPLAY AT(16,5): "Instructions? (Y/N) N* :: ACCEPT A
T(16,25)SIZE(-1)VALIDATE("YN
"): Q\$:: IF Q\$="N" THEN 260
190 DISPLAY AT(2.1)ERASE ALL
:" The computer will display
a": "phrase or saying concea
led": "within a grid of rando

200 0100100 100 1100 1100 ត្រី§ មុខនុស one word per line and them to onsecutive lines, but": "not necessarily beginning on" 210 DISPLAY AT(10,1): "the to p line, and the phrase": "may 'wrap around' from the":"bo ttom row to the top." 220 DISPLAY AT(13,1): You c an find the phrase by":"shut tling columns of letters": "u p and down, looking for":"co nsecutive rows with letter* 230 DISPLAY AT(17.1): combin ations that could be": "parts of words.": A cheat key is available,": "if you are rea Ily stuck, but*

11y stuck, but"
240 DISPLAY AT(21,1):"try no
t to use it!"
250 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 250
260 DISPLAY AT(3,2)ERASE ALL
:"Do you want to - 1":"":" (
1) Solve a saving from my

file?":":" (2) Solve a p
hrase from your file
?"

270 DISPLAY AT(11,2):"(3) Create a file of":" phrase 5?":"":" (4) Have someone ty pe in a phrase to solve ?"

280 ACCEPT AT(3,19)SIZE(-1)V ALIDATE(DIGIT):0 :: IF Q(1 O R Q)4 THEN 280

290 ON D 6010 300,310,410,47

300 F\$="1.CUMPUTE" :: E=1 :: GOTO 320

310 DISPLAY AT(18,1): "Filena #e7 DSK" :: ACCEPT AT(18,14) :F\$:: E=2

320 DN ERROR 370

330 IF FLAG=1 THEN 350 :: FL AG=1 :: OPEN #1: DSK AFF, FIX ED, RELATIVE, INPUT :: ON ERRO R STOP

340 IMPUT #1, REC 0:X :: CLOS E #1 :: FOR J=1 TO X :: X*=X \$&CHR*(J):: NEXT J :: Y*=X* 350 RANDOMIZE :: A=INT(RND*L EN(Y*)+1):: B=ASC(SEG*(Y*,A, 1)):: Y*=SEG*(Y*,1,A-1)*SEG* (Y*,A+1,255):: IF LEN(Y*)=0 [HEN Y*=X*

MO. 360 OPEN #1:"DSK"&F\$,FIXED,R ELATIVE, INPUT :: ON ERROR ST 1 C DP :: INPUT #1, REC B: M\$:: C LOSE 11 :: 6010 490 370 FOR J=1 TO 10 :: DISPLAY to AT(20,1):"" :: DISPLAY AT(2 0,1):"CANNOT OPEN FILE!" :: :94 bо CALL SOUND (-99, 110, 5, -4, 5):: HEXY 3 380 ON ERROR 390 :: CLOSE #1 ut 390 FLAG=0 :: INPUT "CHECK D ISK AND DRIVE, PRESS ANY KEY ÇQ *: DY\$ 400 IF E=1 THEN RETURN 260 E ŧΜ LSE IF E=2 THEN RETURN 310 E t s LSE RETURN 410 15 410 DISPLAY AT(B, 1) ERASE ALL **ea** :"Filename? DSk" :: ACCEPT A T(0,14):F\$ ŊΟ 420 E=3 :: ON ERROR 370 :: 0 PEN #1: "DSK"&F\$, F1XED 124, RE LATIVE, OUTPUT :: ON ERROR ST OP :: X=0 ٤¥ 430 DISPLAY AT(12,1): "Enter END when finished":"":"Ty ιŁ pe phrases, not more than 20 words and 124 characters" 440 X=X+1 :: ACCEPT M\$:: IF LEN(HS)>124 THEN PRINT "TOO l e LONG!" :: X=X-1 :: 60TO 440 450 IF M\$<>"END" THEN PRINT Ĉ٢ #1,REC X:M\$:: 60TO 440 50 460 PRINT #1, REC 0:X :: CLOS t y E #1 :: 60TO 260 76 470 CALL KEY(3, K, S):: DISPLA Y AT(12,1) ERASE ALL: "Type a) V phrase of less than 20 word s and press Enter" 480 ACCEPT MS :: CALL CLEAR 47 490 DISPLAY AT (3, 2) ERASE ALL : Choose skill level - !":"" :: :" (1) All words begin in":" first column" ពង 500 DISPLAY AT(8,2): (2) All 4) words begin in same":" column":"":" (3) Each word m ay appear in":" a differ ۶Ļ ent column" [] 510 DISPLAY AT(14,2):"(4) As RO No. 3 but AID key is":" disabled":"":" (5) Quit")S 520 ACCEPT AT(3,23)SIZE(-1)V ŢŢ ALIDATE (DIGIT): V :: IF V(1 0 R V>5 THEN 520 :: IF V=5 THE #L N CALL CLEAR :: STOP À, 530 DISPLAY AT (12,6) ERASE AL 6\$ L: "SCRAMBLING....." 540 A\${1}="jkzae klepr vgaho nceci sdufy boijw astrf urd sa nvjxe blbig trakv nobth w

ehey vnijo ohero umbai rtika opleg nosve tarkh zeski 🦜 550 A\$(2)="!boid m.fgt krac, pjip? tn-un osheg kar,q ibl .p tons! idrix ?uhig ebarf u ks,k ,,jhge vifyt kibrn taga , .!ry lakle ilf.! inst" 560 E\$=A\$(1)&A\$(2) 570 FOR CH=65 TO 90 :: CALL CHARPAT(CH, CH\$):: CALL CHAR(CH+32, CH\$):: NEXT CH :: CALL CHAR(42, "82444428281010") 580 CALL CHAR (143, *18243C4A4 A3C2418"):: CALL COLOR(14,16 , 1) 590 M\$=M\$&" " :: Y=1 600 X=POS(M\$, " ",1):: W\$(Y)= SEG\$(M\$,1,X):: L=LEN(W\$(Y)): : M=MAX(M,L):: RANDOM17E :: W\$(Y)=W\$(Y)&SEG\$(C\$, INT(230)) RND+11,20-L) 610 Y=Y+1 :: IF Y=21 THEN 62 0 :: M\$=SE6\$(M\$, X+1, 255):: 1 F LEN(M\$1)0 THEN 600 620 FOR J=Y TO 20 :: W\$(J)=S E6\$(C\$, INT(2304RND+1), 20):: NEXT J 630 DN V 6010 670,640,650,65 640 X=INT(RND#(20-M))+M+1 :: FOR J=1 TO Y :: W\$(J)=SE6\$(W\$(J), X, 255) & SEG\$(W\$(J), 1, X-1):: NEXT J :: 60TD 670 650 FOR J=1 TO Y :: X=INT(RN D1(20-H))+H+1 :: W1(J)=SE61(W\$(J), X, 255) &SE6\$(W\$(J), L, X-1):: NEXT J :: 60TO 670 660! the string 670 FOR J=1 TO 20 :: FOR L=1 TD 20 :: D\$(J)=D\$(J)&SE6\$(W \$(L), J, 1):: NEXT L :: NEXT J 680 IF V=1 THEN F=M ELSE F=2 690 FOR J=1 TO F :: I=INT(20 #RND+1):: D\$(J)=SEB\$(D\$(J),I ,255) &SEG\$ (D\$ (J),1,2-1):: NE XT J 700 CALL CLEAR :: CALL SCREE N(5):: FOR S=1 TO 13 :: CALL COLOR(S, 5, 16):: NEXT S :: C ALL VCHAR(1,31,1,96) 710 CALL VCHAR(4,5,143,20):: CALL VCHAR(4, 28, 143, 20) 720 FOR C=1 TO 20 :: FOR R=1 TO 20 :: CALL VCHAR(R+3,C+6 ,ASC(SE6\$(D\$(C),R,1))):: NEX T R :: NEXT C 730 DISPLAY AT(1,1): "s&d to select, eax to scrollictn 7

740 H=1 :: C=48 :: CALL SPRI TE(#1,42,7,18,C) 750 CALL KEY (3, K, S):: IF S=0 THEN 750 ELSE ON POSITEXSOT &CHR\$(1)&CHR\$(6),EHR\$(K),1)+ 1 6010 750,800,810,820,830,7 60,840 760 IF V=4 THEN 750 770 FOR S=5 TO B :: CALL COL OR(S,16,5):: NEXT S 780 CALL KEY(3,K,S):: IF S=-1 THEN 780 790 FOR S=5 TO B :: CALL COL OR(S,5,16):: NEXT S :: 60TO 750 800 D\$(H)=SE6\$(D\$(H),2,19)&S E6\$(D\$(H),1,1):: FOR R=1 TO 20 :: CALL VCHAR(R+3,H+6,ASC (SE6# (D# (H), R, 1))):: NEXT R 1: 6010 750 810 D\$(H)=SEG\$(D\$(H),20,1)&S E6\$(D\$(H),1,19):: FOR R=1 TO 20 :: CALL VCHAR(R+3,H+6,AS C(SE6*(D*(H),R,1))):: NEXT R :: 6010 750 820 C=C-8-(C=48)18 :: H=C/8-5 :: CALL LOCATE(#1,18,C):: 6010 750 830 C=C+B+(C=200) #8 :: H=C/8 -5 :: CALL LOCATE(#1,18,C):: 6010 750 840 CALL CLEAR :: FOR J=1 TO 20 :: D\$(J)="" :: NEXT J :: M=0 :: CALL DELSPRITE(#1):: IF D=1 DR G=2 THEN 350 ELSE 470

Here are three screen display subprograms of the type you will find on my Nuts and Bolts disks. Note that subprograms can read DATA from the main program. The double colons in the DATA statement cause input of null strings of data for spacing between the lines. The M\$() in the subprogram parameter lists is necessary, even though the array is not passed from the main program, in order to DiMension the array in the subprogram - unless you prefer to place the DIM in the subprogram itself. I is the number of DATA items to be read.

100 CALL CLEAR 110 DATA THIS IS A DEMO,, OF THREE SCREEN PRINTING,, SUBPR OGRAMS PUBLISHED IN, TIPS FR OM THE TIGERCUR, No. 51, BY TIGERCUB SOFTWARE 120 DIM M\$(11):: CALL DOWNPR INT(M\$(),11):: FOR D=1 TO 10 00 :: NEXT D :: CALL CLEAR : : RESTORE 110 :: CALL DIAGPR INT(M\$(),11) 130 FOR D=1 TO 1000 :: NEXT D :: CALL CLEAR :: RESTORE 1 10 :: CALL INWARD(N\$(),11) 1000 SUB DOWNPRINT(M\$(),T) 1001 FOR J=1 TO T :: READ M\$ (J):: L=INT(LEN(M\$(J))+.5):: M\$(J)=RPT\$(" ",14-INT(L/2)) #M\$(J):: M\$(J)=M\$(J)&RFT\$(* ",28-LEN(M\$(J))):: NEXT J 1002 FOR J=1 TO 28 :: FOR L= 1 TO T 1003 DISPLAY AT(L,1):SEG\$(M\$ (L),1,J):: NEXT L 1004 NEXT J :: SUBEND 2000 SUB 1NWARD(M\$1), T):: FO R J=1 TO T :: READ M\$(J):: N EXT J :: R=1 :: FOR A=1 TO T 2001 L=INT(LEN(M\$(A))):: F=1 3-L/2 :: 6=1+F 2002 FOR J=1 TO INT(L/2+.5): : DISPLAY AT(R,F+1):SEG\$(M\$(A), J, 1);:: DISPLAY AT(R, 6):S E6\$(M\$(A),L-J+1,1);:: F=F+1 :: 6=6-1 :: NEXT J :: R=R+1 :: NEXT A :: SUBEND 3000 SUB DIAGPRINT(M\$(),T):: FOR J=1 TO T :: READ M\$(J): : L=INT(LEN(M\$(J))+,5):: M\${ 11=RP1\$(" ",14-(L/2))&M\$(3): : M\$(J)=M\$(J)&RPT\$(" ",28-LE N(M\$(J))):: NEXT J 3001 FOR J=1 10 28+L :: FOR L=1 TO T 3002 IF J(L THEN 3007 3003 DISPLAY AT(L,1):SE6\$(M\$

Just in case you didn't know - to jump directly to the first or last line in a TI-Writer file, use FCTM 9 and S(earch) and 1 for the first line or E for the last.

MEMORY ALMOST FULL...

(L),1,J-L):: NEXT L

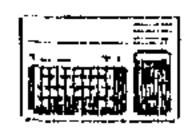
3004 NEXT J :: SUBEND

Ji∎ Peterson



aid, fctn 8 restart*

GENEVE



Thanks to Mid South 3074A User Group for the following: three articles taxon from August 1988 issue of TIDBITER

BENEVE NOTES by Kerry Astron

Well folks, not ten much has happened since the last newsietter to really mention. As of July 30, 1988, it was strongly rugored that Myaru had started shipping the HDCC: to distributors. If this should be the case, I would expect wine to be delivered before the next meeting, but as always, don't hold your breath as there could likely be a software delay. The latest gossip has it that the MDOS for the MDCL will be greater than 90k and will be available only for HDEC purchasers as I do not think any new features have been added except for hard drive support (It is summered to have all support for MDOS and GPL except for OSki emulation.) Myare now claims to have the source code for the likely finished 5Pt Interpreter and GPL support for I1MODE which includes a command line argument for a module file to load and RAMDISK carry over in both directions from MDOS to GPL.

I and I that now has been changed so that John Johnson's Menu arrigram is stored in that place and or boot up, allows 6K files to be roaded from it sown menu, EA \$5 files, and up to 27 files with a single keypress can be loaded from the 80 column menu. One last program that I almost forgot about is NOT-MY-COPY running for the Cor Comp disk controller and the II Controller that is faster than any other track copy program on the market. A Myarc controller version is in the near future. This is a 6PL program available for the 9640 that is just absolutely tast at 80 seconds most for a DS/DD copy with verification. The slowest portion is disk formatting, as reading and writing one can barely tell when the track advances occur as it goes so fast.

One last thing I would like to mention is my adventure with Mriting *964(News*. This is going to be a Geneve specific *9640 Newsletter or disk. More information on this magazine can be found elsewhere in this memsletter. I encourage all Geneve owners to unite under this magazine as this has the potential of becoming a major addition to the II Community. That is about all that I have on the Geneve for this Newsletter, however, if you would like to leave more, subscribe to *9640 News*.

GENEVE-NEWS

Now introducing the first disk newsletter specifically for the benevo 964: --**9640 News* will contain the latest information or advancements with the

released 6-Base, a prece of sociation and providing limited data base capabilities will be received and with your subscription to "9640 News", no freeware payments, etc will be required. The latest software and hardware backs and advancements will be released by "9640 News".

As currently stated, only Geneve specific software and information will be available on the disk. No 4A compatible software will be included on the disk as I do not wish to compete directly with another fine Disk Magazine that is currently available for the 4A.

Contributions by software developers are welcome provided they are Geneve specific. The current subscription rate for 5 disk issues is:

\$25 for U.S. delivery

\$30 for foreign delivery surface wail

\$38 for foreign delivery air mail

Outside U.S. pay postal or international money order, within the U.S., personal checks are welcome.

Mail your check or money order to:

Beery W. Miller

1561 Galveston

Memphis, TN 38114

Include the following information:

Name:

Address:

City:

State:

lip Code.

Double Density capability (Y/N):

Double Sided capability (Y/N):

1

LAST MINUTE NEWS

by Michael Dorman

The Myarc Hard/Floppy Drive Controller card (HFDC) is now shipping. The HFDC is fully functional on the 4A and it works on the Geneve 9640 with some limitations. The HFDC, which is available for about \$325.00, includes the Myarc Disk Manager V and a comprehensive manual.

For Geneve owners, MDOS v1.06, GPLv.1.01, and My-Word v1.20 are also included. This combination of MDOS and GPL allow the passing of a 120K randisk (larger with a modified 512K card) form MDOS to GPL and back. To use this, the command TIMODE must be present in an AUTOEXEC file. A 16K print spooler is automatically created.

Until the external DSR that J. Peter Hoddie 15 writing is completed, the MDOS hard drive commands (e.g. RMDIR, MKDIR, TREE) are not operational. Also, the HFDC will not control floppy drives on the 9640 until the DSRs are finished. The disk file emulation will not work for the same reason.

This controller card should really help expand the potential of both the TI-99/4A and the Myarc 964G.

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THE NEW FEATURES OF FUNNELWED



v4.i by Charles Good Lima Ohio User Group

FUNNELWEB is probably the most significant software ever for the 99/4A. After booting FUNNELWEB v4.1 from XBASIC (you can boot FWB from any assembly language loader, but the XBASIC module is the best way) you can do all of the following without changing modules.

- 1. With a single keypress you can load from a selection of user created menus almost any software ever written for the 99-4A. If the software you want to load isn't configured into one of your user created software menus, you can call up a disk directory anywhere within FWB, mark the file name of software seen in the directory, and then load that software.
 - 2. Do word processing with a much improved version of TI-WRITER.
 - 3. Create assembly source code and then assemble it as you would with the E/A module.
- 4. Manage disks with a modified version of DM1000 which is supplied with the FWB package. Pre-configured menu entry points for other common disk managers are also provided.
 - 5. View and edit disk sectors with a modified version or DISK PATCH, also sometimes known as DISKO.

This review will describe the changes and additions in v4.1 as compared to v4.0. Although this description is based on the May 30, 1988 release which says "Memorial Day" on the XBASIC title screen, the review should be valid for all subsequent releases of 4.1.

Enhanced CENTRAL MENU capabilities.

Each central menu now has 8 items, and items 4-7 are completely configurable to load any kind of assembly language file. This includes autostarting D/F80 source code and assembly PROGRAM files. In previous versions of FWB the central menus could only load PROGRAM files and only a limited number of central menu slots were configurable.

The TI-WRITER menu reads as follows:

1. EDITOR

t

4

- 2. FORMATTER
- 3. DISK UTILITIES
- 4. HODEN
- 5. DATA BASE
- 6. DM1000
- 7. DSKU
- 8. USER LIST

As noted above, items 4-7 can be configured to suit the user. MODEM is an entry point for terminal emulation software such as FAST TERM or TELCO. DSKU refers to John Birdwell's "DISK UTILITIES." This fairware disk management is so good that some former users of DM1000, myself included, have switched to DSKU for most disk management uses. DSKU is not provided as part of the FWB package, but can be obtained directly from John Birdwell or from most user group libraries.

Item 3 in the above TIW central menu leads to a specially created user list menu in which disk management software is grouped togther. The DISK UTILITIES menu reads as follows:

- 1. DM1000
- 2. OSKU
- MYARC DM
- 4. SPATCH
- 5. SCREAMER
- 6. TRACKER
- 7. ARCHIVER
- a. CONFIGURE
- 9. (CTR ROM)

DPATCH is the modified sector editor DISKO which is provided as part of the FMB package. SCREAMER is a good entry point for an ultra fast whole disk copier such as REDISKIT or TURBO COPY. TRACKER can be used to, load one of the various "copies anything including protected disks" track copiers. Mill McGovern, one of the FMB authors, has written a fairware track copier called TRACKER that is one of the few (maybe the only) that works with a Myarc controller. Send him a few tucks in Australia and he will send it to you, or look in your user group library. ARCHIVER will load the latest version

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of Barry Boone's archiver/compressing program. This archiving software is not part of the FMB package. CONFIGURE boots the FMB configuration files CF/CG. Items 1-8 in the above DISY UTILITIES user list menu can be altered with CF/CG to boot any assembly D/F80 (autostarting or not) or PROGRAM files.

The Edit/Assem central looks this way as configured on the FWH distribution disk:

- L. EDITOR
- 2. ASSEMBLER
- 3. LOADERS
- 4. C-COMPILER
- 5. DISK PATCH
- 6. LINEHUNTER
- ï. ..
- E. RESET

Item 4 loads the latest 44 release of c99. LOADERS, unchanged from FMB v4.0, leads to a menu for loading assembly D/F80 or PROGRAM Files that aren't already configured into one of the FMB user lists;. LINEHUNIER is new to v4.1. It is an assembly programming utility that prints on the screen any specified line of assembly D/V80 source code. You can also type the name of a label, and LINEHUNIER will display lines that have that label

THE CONFIGURATION PROGRAM, FILES CE/CG:

This has been totally redone for v4.1 and MUST be used to do any configuring of the various user lists. It is no longer possible to directly edit FWE's XBASIC LOAD program to alter the XBASIC user—list—because—there is very little XBASIC code in LOAD. There are only a few XBASIC line numbers in LOAD and the rest of LOAD is all in assembly.

CONFIGURE is much easier to use in v4.1 than it was in v4.0. CF/CG has a tree structure which allows you to quickly get to any part of the configuration without redoing the entire configuration process. The configuration program is very professional looking with sound effects, overlaping menu windows that pop into view, and help screens that are available at various points in the configuration process by pressing "?". Obviously much effort went into the preparation of the new v4.1 configuration files. The authors note that CF/CG was condensed from over 500 sectors of source code.

Basically what you do is load a configuration data file, alter the configuration, resave the altered data file to disk, and then while it is still in memory install the new configuration data into the FWB LOAD and UTILL files. If you later obtain a more recent release of FWB v4.1 you can configure the more recent release simply by loading your old configuration data file and installing this data into the newer LOAD and UTILL files. This is REALLY EASY' I had access to a pre-release beta testing edition of FWB v4.1 and was able to use the beta testing edition's configuration data file configure my "Memorial Day" v4.1 in about 30 seconds. Hopefully the FWB authors will maintain this configuration data file system in all future upgrades of FWB and allow this easy transfer of v4.1 configuration information into all future FWB updates. Unfortunately, configuration into all future FWB updates.

The important universal keys to remember in the configuration routine are (ENTER) to advance to the next window, and BACK to return to the previous-part of the program (often the previous window). AID will get you a disk directory from most places in the program, and the brings up the help screens. When a window is displayed, you press the first letter of the text line in the window to perform the thinction indicated. If the window says:

:Load:

:Edit:

:Save:

then you press "L", "E", or "S". Sometimes "N" and "B" are used to move the cursor up and down within the window when the functions "Next" and "Back" are displayed in the previous window. When more than one window is visible at the same time, the active window is indicated by a fat (2 pixel wide) horder. The borders of the windows get alternately fat and skinny depending upon which is the corrently active window.

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The early windows in the configuration process are as follow:

: Sysinfo		Qui t	Install:	First
				Windo
Save:	Loading Devices Colors Menu XB List UL List	Boot tracking OFF: TI-Writer side 1 LOADING Edit/Assm side 1 WINDOW Working Drive 2		
	THIRD	, 2-2-	nter: DEVICE ile : WINDO	
		: NEXT: (: NEXT: (: BACK: V : XCH6: : REDO: : VIEW:		
		 !TJ-Weita	er side: MEI	V III

:Edit/Assm side: WINDOW

You start out by pressing Siysinfo) to display the second window, and then press L(oad) to load the configuration data file, following the prompts for loading. The name of this file on the FWB distribution disk is SYSCON, but you can use any name. You can create different FWB configurations on different configuration data files each with a different file name. After loading the configuration file, you press E(dit), change the configuration data and display the third window. From here you bring up fourth series of windows where much of the configuration actually occurs.

LOADING WINDOW: Boot Tracking toggles between ON and OFF by pressing "B". Usually it is left ON unless FWB is installed on a randisk. In that case, the authors suggest it is sometimes best to leave boot tracking OFF. If the files loaded by FWB's central menus are in different drives (or randisks) these drive numbers are specified next to "TI-Writer side" and "Edit/Assm side". The "Working Drive" is the default drive number that appears after "DSK" if the mailbox workfile name is empty when you LF from the editor or use the Formatter.

DEVICES WINDOW: Printer names are self explanatory. "Object File" name is the default that appears on the screen next to DSKx. when you select LOADERS from Edit/Assm central menu and try to load a O/RO assembly file. I have "Object Fil" name configurated as "DF/BOFILE" to remind me that only this type of file can be loaded from certain parts of LOADERS. "Mork File" is the default file name used the first time you LF> It is best to leave this blank as it is on the distribution disk. If "Mork File" is left blank, you can exit FMB, go through the title screen and do something in BASIC without turning off the PE box, return to FMB and find the previous workfile name still there when you LF. "Program" is the default displayed on the screen when you use the LOADERS menu t load assembly PROGRAM files. The ability to set "Object File" and "Program" defaults is a feature new to FMB v4.1.

(continued on page 17)

作员的各人对金贝里 一角组的内侧型 医食品的复数形式 电自己系统 国德国的国际企业 电自己系统

.TL 126:94; .TL 123:64; .TL 125:38; .TL 124:42; .TL 92:46; . NF 100 (=0 :: [=1 ::]=2 :: =3 :: \=4 :: 60TO 120 :: INC\$, LP\$, MP\$, N\$, V\$, W\$, X\$, XX\$, Y\$: : (,A,B,C,D,E,F.6,H,I,INC,K, L, M, P, Q, R, T, U, UU, V, W, X, Z, C, \ ,1,_ :: CALL CLEAR 110 ! (P-120 (={ :: [=[::]=] :: _=_ :: \=\ :: 6010 130 :: INC\$, LF\$, MP\$, N\$, V\$, X\$, XX\$, Y\$:: A ,B,C,D,E,F,G,H,1,INC,K,L,M,P ,0,R,T,U,UU,X.Z :: CALL CLEA R :: !{P-130 !FILE NAME "LOAN-AMURT" 3/30/87 THIS PROGRAM WILL CA LCULATE YOUR PERIODIC 140 !PAYMENT AMOUNT TO PAY O FF A FIXED AMOUNT, RATE AND TERM LOAN IF DESIRED 150 III WILL PRINT A COPY OR AN AMORTIZATION SCHEDULE SH ONING THE AMOUNT OF 160 'PAYMENT TO INTEREST, PR INCIPAL AND THE LOAN BALANCE AT EACH PERIOD\ ALSO 170 PADDITIONAL AMOUNTS TO P RINCIPAL CAN BE INCLUDED! 180 !BY Ralph Lathouse, Colu mbus, OH 190 CALL CLEAR 200 DISPLAY AT((,\):"!!!!!! 210 DISPLAY AT(), \):"; LOAN AMORTIZATION !" 220 DISPLAY AT(_,\):"; CAL CULATIONS :* 230 DISPLAY AT(\,\): "!!!!!!! 240 DISPLAY AT(5,10): "BASIC DATA" 250 DISPLAY AT(6,[): "AMOUNT OF LOAN?: * 260 ACCEPT AT(6, 2018EEP VALI DATE(NUMERIC)SIZE(-9):A :: D ISPLAY AT(6, 20): USING *#### 4:"##/# 270 DISPLAY AT(8,1): "ANNUAL INTEREST RATE: *

280 ACCEPT AT(8,24) BEEP VALL DATE (NUMERIC) SIZE (-7):R :: [F (R(I)+(R)25) THEN 280 ELSE DISPLAY AT(B, 22):USING *##\# ##X":R :: X\$=" 12" 290 DISPLAY AT(10, [): "NUM\ 0 F PAYM'TS PER YEAR: ") X\$ 300 ACCEPT AT (10,27) BEEP VAL IDATE(NUMERIC)SIZE(-3):X\$:: X=VAL(X\$):: 1=R/(X:100) 310 DISPLAY AT(12,_): "00 YOU WANT TO CALCULATE" 320 DISPLAY AT (14, [):"1 9MDU NT PERIODIC PAYMENT?" 330 DISPLAY RI(16, D: "2 NUMY PM'TS TO PAY OFF LOAN* 340 ACCEPT AT(17, 1) STZE (-[) V ALIDATE("12") REEP: V\$:: IF V \$=*1* 11'E4 350 :: 1F V\$=*2* THEN 390 350 DISPLAY A1(12,1):" ISPLAY 41 (14. ():" 360 DISPLAY AT (16, ():" " :: D ISPLAY AT:17, D:" " 370 DISPLAY AT (12, D): "NUSA F M'TS PAY OFF LOAN?" 380 ACCEPT AT(12,26)SITE(-_) VALIDATE (NUMERIC) BEEP: M :: F 010 460 390 DISPLAY AT (19, (): *PERTOC IC LOAN PH'T?" 400 ACCEPT AT(19,21)SIZE(-8) VALIDATE (NUMERIC) BEEP:P :: D ISPLAY AT(19,21):USING ***** #\##":P 410 DISPLAY 41 (23, 1): *FRESS ENTER TO CONTINUE" :: ACCEPT AT (23, 25) BEEF: XX\$ 420 DISPLAY A1(23, [):" • :: DISPLOY A 1(19,1):* 430 DISPLAY AT (12, 1):" * :: D ISPLAY AT(14.1):" 440 DISPLAY AT(16, D): ' :: D ISPLAY AT(17,1):

460 F=1NT(M):: IF V\$="1" THE N 480 :: JF M-F(\01 DR M-F)\ 99 THEN F=INT(M+\1) 470 L=A:([+])~F-P:(([+])~F-[1/1 480 IF L(\01 THEN L={ :: M=F ELSE IF L(\1!P THEN F=F-[: : L=L+P ELSE L=L1([+]) 490 L=INT(L:100+\5)/100 500 P=A!(Z!([+I)~H)/(([+I)~ M)-[):: P=[NT(P!100+\5)/100 :: IF V\$="2" THEN 1130 510 DISPLAY AT(12,1):USING " TERM OF LOAN IN PAYMENTS *** ": N 520 DISPLAY ATT14, [1:USING * LOAN PAYMENT IS ######### ":P 530 T=(P(F)+L :: T=INT(T:100 +\5)/100 :: D=T-A :: D=INT(D :100+\5)/100 540 DISPLAY AT(16, (): USING " *:D 550 DISPLAY AT(18,1):USING " TOTAL COST 15 ******** 560 DISPLAY AT(24,_): "PRESS ENTER TO CONTINUEY" :: ACCEP T AT (24,27) BEEP: XX\$ 570 CALL CLEAR :: N*="1" 580 DISPLAY AT([,23): "PRESS" 590 DISPLAY AT(),[):"WANT PR INTED COPY OF ": "BASIC LOAN D ATA? 600 DISPLAY AT(5,1): "WANT A DISPLAY OF": "PAYMENT DATA? 610 DISPLAY AT(B, [): "WANT PR INTED COPY OF LOAN": "AMORTIZ ATION SCHEDULE? 3" 620 DISPLAY AT(11, [): "WANT T O RESTART CALC? 630 DISPLAY AT(13,1): "QUIT 5" :: N\$ n* | * 640 DISPLAY AT(15, U: WANT A DD AM'T PRINCY PAY? 6" 650 DISPLAY AT(17,27):"1" 660 ACCEPT AT(17,27) BEEP VAL IDATE("123456")SIZE(-():N\$: : UU=VAL(N\$) 670 IF UU=6 THEN 1240 :: IF

UU=] THEN 830 :: A=A+6 :: I= 1-1 :: 6=6-6 :: IF UU=(THEN 710 680 IF UU=\ THEN 190 :: IF U U=5 THEN 1320 :: IF UU=_ THE N V=(:: 60SUR 700 690 U={ :: 6010 870 700 OPEN #[:"PIO" :: PRINT # [:CHR\$(27);CHR\$(67);CHR\$({); CHR\$(11), CHR\$(27); CHR\$(78); C HR\$(5):: RETURN 710 GOSUB 700 720 PRINT #E: CHR\$ (27); "W"; CH R\$([); * LOAN AMORTIZATION* 730 PRINT #[:TAP(5); "CALCULA TIONS"; CHR\$ (27); "W"; CHR\$ ((); : : AMOU 740 PRINT #1,USING * *******/ RT OF LOAN, ##":A 750 PRINT #E,USING * UNNA 48/88 AL INTEREST RATE. #%":R NUMB 760 PRINT #1,USING " ER OF PAYMENTS PER YEAR, ##":X 770 IF V\$="2" THEH 1160 780 PRINT #1.USING * TERM OF LOAN IN PAYMENTS ##":M 790 PRINT #L,USING " LOAH ****** PAYMENT IS ##":P 800 PRINT #1,USING " TOTA ######\ L INTEREST IS. ##*:D BIO PRINT #[,USING " ******* L COST IS, ##":T 820 PRINT #[:CHR\$(27);CHR\$(7 9):: PRINT #[:CHR\$(27);CHR\$(64):: CLOSE #1 :: 6010 570 B30 IF B THEN A=A+6 :: IF B THEN I=I-I :: IF P THEN G=G-6 :: N={ :: V={ :: U={ 840 CALL CLEAR :: DISPLAY AT (),(): "ENTER NUMBER OF PAYME NT TO": "BE DISPLAYED" 850 ACCEPT AT (_.16) BEEP VALT DATE (NUMERIC) SIZE (-_):0 :: C ALL ELEAR 860 IF B>\5 THEN INC=9 :: E= [:: 6010 930

450 M=LOG(P/(P-A(I))/LOG([+I

10

870 CALL CLEAR :: DISPLAY AT (8, (): "NUMBER OF PAYMENTS TO BE": "PRINTED" 880 ACCEPT AT(9,15) BEEP VALI DATE (NUMERIC) SIZE (-_):E 890 INC\$="1 " :> Q={ 900 DISPLAY AT(12,[):"DO YOU WANT EVERY PAYMENT": "SHOWN ON PRINTOUT OR IN": "INCREMEN IS OF PAYMENTS\" 910 DISPLAY AT(14,15):"1 920 ACCEPT AT(14,15)BEEP VAL IDATE("1234567890")SIZE(-_): INC# :: INC=VAL(INC#) 930 FOR H=[TO E :: FOR C=[TO INC 940 IF U=V-1 THEN P=P+W 950 K=A17 :: B=P-K :: IF K+B)A THEN B=A :: A=A-B ELSE A= A-B 960 K=1NT(K:100+\5)/100 :: I $=I+K :: B=INT(B|100+\5)/100$:: 6=6+B :: A=1NT(A:100+\5}/ 100 :: U=U+[970 NEXT C :: Y\$=" " 980 IF U=Q THEN DISPLAY AT(1 6,[):USING 1200:U,K,B,A 990 IF 8>\5 THEN 1050 1000 IF (U+1=C): (H=1) THEN 10

10 ELSE 1030 1010 PRINT #C:" PAYMENT PAYMENT PAYMENT BALANCE ADDED TO* 1020 PRINT #[:" NUMBER TO INTEREST TO PRINCIPAL OF LOAN PAYMENT* 1030 IF W THEN PRINT #1, USIN 6 1190:U,K,B,A,W :: P=P-W :: W={ :: IF U>V-1 THEN 1050 1040 PRINT #C, USING 1310:U,K , B, A 1050 NEXT H 1060 IF 0>\5 THEN DISPLAY AT (20,():USING 1230:Y\$,U,I,6: : A=A+6 :: I=1-1 :: 6=6-6 :: U=(:: 60TO 1110 1070 IF B={ THEN PRINT #E,US 1N6 1210:Y\$,1,6,U :: [F A=0 THEN 1090 1080 6010 820 1090 DISPLAY AT(21,5):"LOAN BALANCE ZERO\" :: A=6 :: I=0 :: 6=0 :: U=0 1100 DISPLAY AT(24, {): "PRESS ENTER TO CONTINUE" :: ACCEP T AT(24,24)BEEP:XX\$:: 60TO 820 1110 DISPLAY AT(24,[):"PRESS

ENTER TO CONTINUE" :: ACCEP T AT(24,24):XX\$:: CALL CLEA R :: 6010 570 1120 PRINT #E:CHR\$(27);CHR\$(79):: PRINT #(:CHR\$(27);CHR\$ (64):: CLOSE #C :: 50TO 190 1130 MP\$="### PAYMENTS OF ####### \##" :: DISPLAY AT(11 ,():USING MP\$:F,P 1140 LP\$="LAST PAYMENT IS ######*** :: DISPLAY AT(13 ,():USIN6 LP#:L :: 60TQ 530 1150 DISPLAY AT (24, (): "PRESS ENTER TO CONTINUE" :: ACCEP T AT(24,24) BEEP: XX\$:: 60TD 570 1160 PRINT #[,USING 1180:F,P 1170 PRINT 4C, USING * - LAS T PAYMENT IS, ##### \##":L :: 6010 800 1180 IMAGE ****** PAYMENTS ****** OF 1190 1MAGE ###### **** ##\## 191311111 ******/** ****** 1200 IMAGE ::::::::PAYMENT## ##:::::::TO INT'ST TO LOAN BALANCE #####\## #####\## *******/**

1210 IMAGE ####TOTAL **** #######\## ##\## THRU P AYMENT ###\ 1220 !{P+ 1230 IMAGE ####TOTAL THRU P AYMENT ### ####\## #####\ 1240 60SU8 700 1250 CALL CLEAR :: WS="0 " :: DISPLAY AT(],(): "EXTR A PAYMENT? ") NS 1260 ACCEPT AT(1,16)BEEP VAL IDATE(NUMERIC)SIZE(-9):W\$:: W=VAL(W\$) 1270 DISPLAY AT(), 16):USING "######\##":W :: V=U+1 :: IF UK1 THEN V=1 1280 DISPLAY AT (23, (): *PRESS ENTER TO CONTINUE" :: ACCEP T AT(23,25) BEEP:XX\$ 1290 CALL CLEAR :: 60TO 870 1300 !{P+ 1310 IMAGE ###### 1111 11/11 ******** ******/** 1320 CALL CLEAR :: END .Fl;AD;

• •

Funnelweb 4.1 continued from page 15

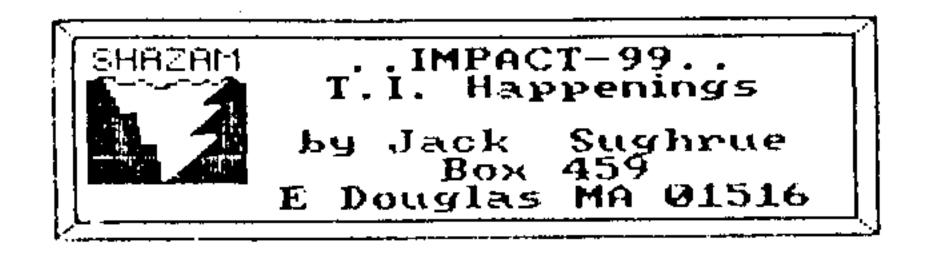
COLOR WINDOW: Here you can edit and view your choice of 10 color combinations. You can alternate between two sets of such combinations. The one listed at the top of the list is the combination that appears first when you boot FWB.

MENU WINDOW: This choice allows you to configure items 4-7 in each of the central; meus. You can configure autostaring D-FBO assembly files or assembly PROGRAM files. Each file name is limited to two characters and should either be on boot disk in the either one of the two central menu drive numbers specified above in the LOADING MENU. Press BACK to exit this part of the configuration process.

XB LIST AND UL LIST CONFIGURATIONS: These are both done in a similar manner. First F(etch) the list by pressing "F". Then press N(ext) or B(ack) to select the item to be configured and press E(dit) to change that item. Press (ENTER) to go from menu to menu in the editing process. When asked for the "Secondary" this refers to the drive number specified in the device window for the E/A central menu files. If you ask for a "Reminder", FWB will display the message INSERT UTILITY DISK when you attempt to boot the configured program from a FWB menu. When XB List or UL List configuration is finished (and S(aved) in the case of UL List, press BACK to return to the third window.

THE FINAL CONFIGURATION STEPS: Press BACK several times to return to the second window and then press S(ave) to save the modified SYSCON configuration data file back to disk for later use. Then press BACK, and from the first window press I(nstall) to install the configuration data into the LOAD and UTILI files. Follow the prompts. An alternate name for the UTILI file is FM and you can use this name if you want. The alternate name used to be RELOAD in earlier versions of FMB, but this name is too long to use with current Horizon Ramdisk Menu software. It is necessary to save the configuration data to 80TH the LOAD and the FM/UTILI files, so cycle through the installation process twice. Then press BACK a couple of times to return to the first window and press Q(uit) to return to FMB. If you exit configuration with Q(uit) you will not inmediately se your new configurations. It is necessary to reboot FMB from the beginning for the new configurations to appear on screen.

(to be continued in Oct 1988 issue of Spirit of 99)



6000 OLD DAYS ARE COMING BACK'

Remember those good old days of 1982-84 when there were loads of books and magazines for us Tiers? When we could buy text materials for our computer faster than we could read and use them?

Methinks these days may be returning. At least a little.

At recent fairs and meeting I've attended there has been lots of talk about the disappearing textware in the II World Community. No more books. No more magazines. No more...

Actually, there is more good, intelligent, useful TI stuff being written for textware today than there was four or five years ago. It's just that most of it is being written by users in user groups, not by some writer in an ivory tower somewhere. Most of these new writings are free (in newsletters with membership or in exchanges with other groups) and readily available.

Someday, I'd love to publish a list of my favorite dozen newsletters worldwide, but then the IMPAC) column may be reduced to only 12 oublications.

So such for that idea.

Joining a user group, even by mail if there aren't any nearby, may be the most sensible investment a 99er could make.

However, there are still lots of other sources for textware in our fellowship.

COMPUTER SHOPPER (\$21 for 12 monthly issues) P.O. Box 1419, Titusville, FL 32781-9988. This 10 X 14 500-plus page giant is probably the best single source for inexpensive disks, drives, cables, monitors, printers, what-have-you. It also has a listing of user groups (Check to see if yours is there,) and a II classified section. But the reason most of us subscribe is the TI FORUM written by Ron Albright and John littrain. These two guys have a folksy approach to the realm of TI computing. Their monthly articles are full of wit and information and lots of heady reviews and predictions.

MICROpendium (\$20 for 12 monthly issues) P.O. Box 1343, Round Rock, TX 78680. This is the best magazine source for all II owners, from super techne all the way down the ladder to people like myself. The 40-page newsprint periodical is totally devoted to the II world and is as up-to-date as one can get. If you can only

afford one II magazine, this is probably the one. (John littrain, Ron Albright, Barry Traver, Chris Bobbitt, and Bruce Forbes are probably going to kill me for saying that.)

ASSARD NEWS (\$6 for 4 quarterly issues) P.O. Box 10306, Rockville, MD 20850. Though this magazine is fairly new, the editor — Chris Bobbitt — has been programming and writing steadily for the TI community since his teenage years. So it's a natural step up to see a full-fledged magazine come out. Most of the first issue was devoted to previews of coming attractions and reviews of many of Asgard's products. Each issue, though, has an extended article (the 9640 vs the 99/8, for example) and editorials and regular columns and corners. Lots of small, helpful hints and comments are given on a variety of II subjects.

benial TRAVelER (\$36 for a one-year, six-disk subscription; \$65 for a two-year subscription. These subscriptions also have bonuses.) 835 Green Valley Drive, Philadelphia, PA 19128. In a way Barry Traver's diskazines are not strictly a hardcopy magazine, but the DV/80 files dumped will give you the equivalent of a novel. To be a 99er with a disk drive and not have this service is to live a deprived life. These are packed! Keally packed disks of an incredible variety of things for the TI: music, utilities, games, wordprocessing, everything else. Far less than a penny a sector, these disks may be ordered as Volume One (the set already complete), Volume Two (still some to come), or both. I would recommend Volume One first.

All of the above you may already own or at least know about. But there is another text/disk setup out there that is really worth discovering. It's been around since September of '87, and it is another large value for we 99ers, though it just hasn't gotten the attention many other II efforts have gotten.

IId Bits is a bimonthly magazine for only \$8 (6 15sues) for hardcopy or \$12 (6 issues) for disk (SSSU flippy). The disk contains lots of additional PD and Fairware stuff to extend to two sides. The magazine contains photos and graphics.

Mail to Bruce Forbes, editor; Route 2, Box 412; Sumerduck, VA 22742.

yersion to get - disk or text. Although the disk contains the exact text of the hardcopy (and a lot of other surprise goodies besides), I personally am partial to the hardcopy for a number of reasons.

Ild Bits pilot issue contained some screen photos, graphics of an envelope cataloguer, and a screen graphic to go along with a program printed out.

The next issues, however, contained some of the best photographs I have ever seen of the internal structure of our computer. The text talks about thip replacements and

SPIRIT OF 99

gives some very precise, easy-to-follow photographs and enlargements that make the process very logical, very clear, and - even to a non-terhie like myself - very unfrighteningly practical.

It's one thing to see drawings (which are also in the magazine), but it's quite another to have step-by-step photographs of the entire process.

These magazines are jam-packed with all kinds of stuff that you don't find in MICROpendium, ASBARD NEWS, or - because of the nature of the zine - Genial TRAVelER.

Bruce supplies the reader with all kinds of inside information on a large variety of things for us 99ers. Lots of prices of things. Lots of addresses. Lots of reviews. Lots of programs.

It's a one-man operation at this point, and each issue gets better and better.

Bruce has promised to continue this magazine through at least one year's subscription. And hardcopies of all past issues will be available through 1988 with each subscription. The disk versions will continue to be available, I assume, for a long time to come. Newsletter editors may be interested in getting this version for an excellent source of some interesting material.

Bruce says of his excellent efforts, "A lot of thought went into the pricing of TId Bits. We were keeping in mind that the TI community has feen shafted too many times. Therefore, we set a break-even factor projected to December 1988. If we should pick up a sponsor or advertiser throughout the year, those funds would be used to lure a II Brain to produce unique artitles for us." [['m available, Bruce.]

"We are committed to 1988 and are cautiously optimistically looking to 1989. If the world doesn't end or the Il community completely collapse we project some kind of survival into 1989 and beyond."

Hoor ay!

Writers and programmers and technes and non-technes, take note! Here is a good source for you to get those articles and designs and comic strips published.

Readers, here is another great TI source that needs

all our support. For only \$8 we could be supporting our own futures with our fabulous machices.

bood luck, Bruce:

HELPFUL HINS OF THE MONTH

this has to do with II WRITER for any version: FUNNELWEB, BA WRITER, whatever).

Did you know you can type anything you want after a carriage return ON THE SAME LINE and it won't print out. But it'll SAVE. This is great for text notes for screen reading. I've used this a lot, particularly when I'm writing articles or poems. Very handy.

Also handy is the space use in LF and SF.

When you LF and there is already a DSK2.HEMENWAY up there on auto and you want to load DSK2.KDN6, all you have to do is type the KONG and press the Spacebar and Enter, even though it'll say DSK2.KON6 WAY on the screen. Actually, you can even SAVE a file with a long (up to BO-col) note after a filename and space. This will disk SAVE and screen read but not print out. Lots of handy reasons for this on working disks.

Another handy-dandy is letter saving. If you write as many letters as 1 do (between 30 and 40 a week), it's a good idea to let your FUNNELWEB do the sorting and hard work for you. Just name the letter by date and name in the following way. If I write to Jim Peterson on May 17 I would SAVE the file as DSK2.517JIMPETE. Always month first (5) followed by day (17) and the mame as far as it'll go. So if I wrote to Jim on November 27 it would be 11273IMPET, but if I wrote on April Fool's Day it would be 41JIMPETER. This is also handy if you write a lot of letters on the same day, as II WRITER will sort them for cataloguing first by number then by letter. So they will be numerically AND alphabetically sorted in the catalog.

Have any handy-dandys of your own for ones you've come across)? Send them along. I'll be happy to IMPACT them for you, with full credit, of course.



JOHN S. KOVACH

Manager

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MEETING DATES FOR 1988-1989

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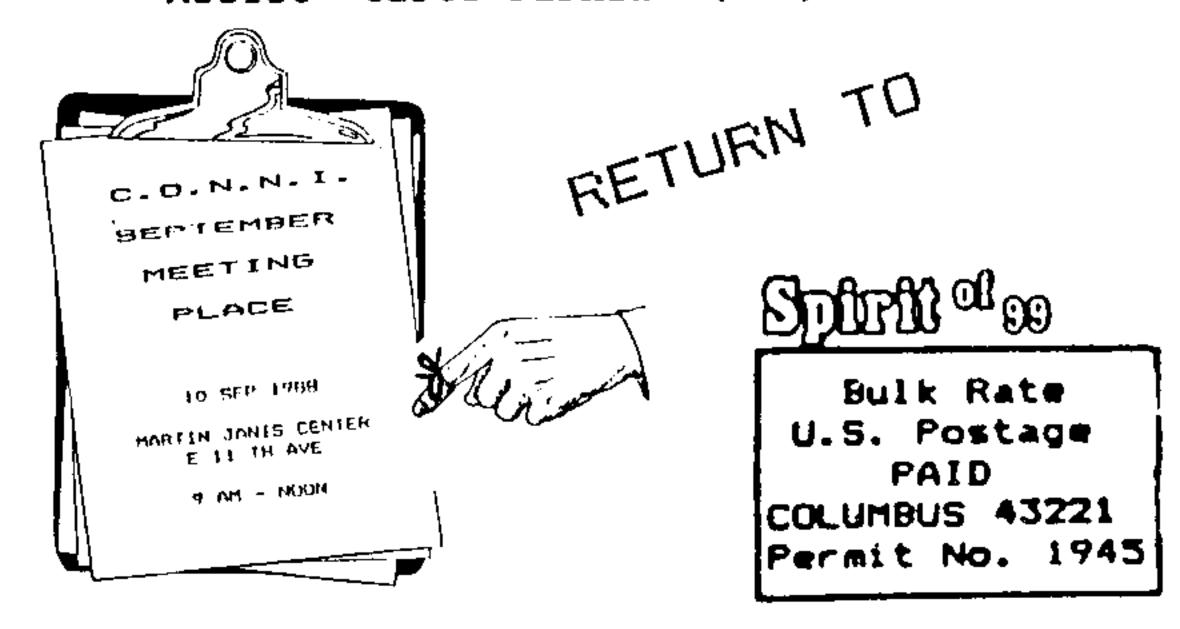
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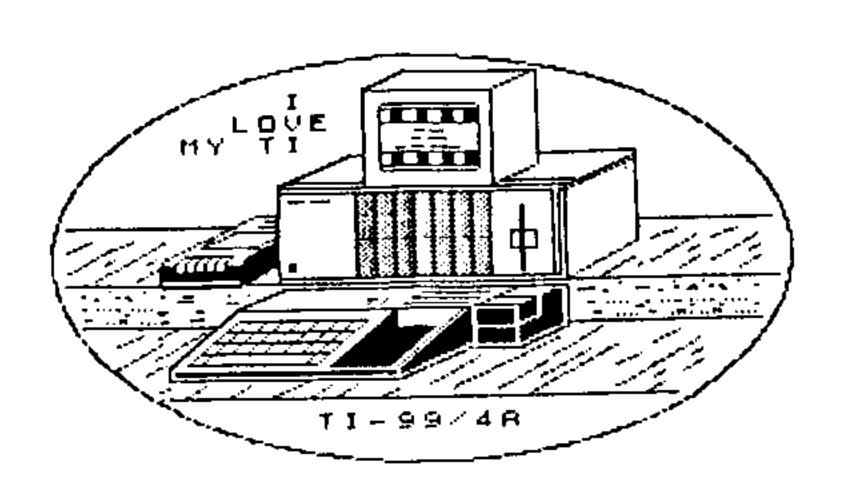
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