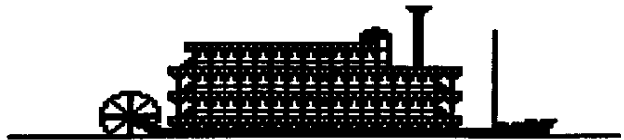


TI DBITS

MID SOUTH 88 USERS GROUP



MEMPHIS TENNESSEE

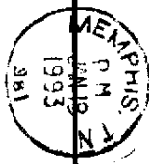


JANUARY

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TIDBITS

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JAN. 1993 INDEX

PRESIDENT'S BIT	Gary Cox	Page 3
GENPROG RE-RELEASED	Beery Miller	Page 3
QUICK ACCESS	Bill Gaskill	Page 4
RELISTING PROGRAMS	Jim Peterson	Page 11
TINY TIP	Mark Schafer	Page 13
COMPRESS IT ANYWAY	Mark Schafer	Page 14

PRESIDENT'S BIT

by Gary W. Cox

The last meeting went very well with about 35 people attending for the Christmas party, thanks to everyone who attended and brought deserts!

The elections were held at the last meeting with the results being:

Richard Hiller as vice-president,
Richard Mann as secretary,
Mac Swope as treasurer,
Gary Cox as president.

We have recieved information on the TI Fest West to be held this year in Utah. The event will take place at the Howard Johnson Hotel in Salt Lake City February 12 - 14th 1993. For more infotmation call the Salt Flats BBS at (801) 394-8854 or write TI Fest West, 1396 Lincoln Avenue, Apt. B, Ogden, Utah 84404.

C ya at this months meeting. , ,

GenPROG Re-released

by Beery Miller
9640 News

from the pages of the Louisvills "Bytemonger", Nov. 1992

This package contains:

- 1) GENASM macro assembler. Runs in MDOS mode. Ideal for developing code for 99/4A and MDOS applications. Great for C99 programmers.
- 2) GENLINK linker. Runs in MDOS mode. Full support for code libraries. Ideal for developing applications.
- 3) GENLIB librarian. Runs in MDOS mode. Allows easy interactive maintenance of code libraries for the linker.
- 4) Libraries for 99/4A and MDOS programmers, with commonly used routines.
- 5) GENMAKE make utility. Runs in MDOS mode. Allow an author to easily keep track of file dependencies in programs and large documents. Great for programmers and people who are writing the great American novel. When run, it will update all files which need to be and (optionaly) ignore all files which are already up to date.
- 6) MDOS programming environment documentation, with programming examples for all MDOS library functions, programming tricks for MDOS.

(Video/Math/Keyboard/Taskheader information will be mailed upon MDOS's completion)

All utilities can be invoked from a batch file, for complete development automation.

The suggested retail price is \$75 (including shipping) for

the entire package, which is available from 9619 NEWS and includes the subsequent followup documentation.

AVAILABLE NOW ONLY FROM: 9649 NEWS
 Beery Miller
 P. O. Box 752465
 Memphis, Tn. 38175

In an effort to help those folks that have their checks cashed by order undelivered from JP Software, you must enclose a copy of your cancelled check (front and back) and \$15.00 (to cover cost of shipping and manual) and you will receive the latest version.

Also, in an effort to help those that already purchased GenPROG and have the incomplete docs, arrangements will be made at the appropriate time when the documentation is complete to resolve this matter. Nobody will be forgotten.

QuikAccess

----- by Bill Gaskill
 December 1992

Have you ever wished for an easy way to keep track of all the hardware and software you've purchased for your computer over the years? Well don't despair, because you can create such a system in TI-Writer or any of its clones without much work. Then, using the Extended Basic program that follows this article, you'll be able to access the data in your inventory without ever loading it. Here's how.

Set up a table in the TI-Writer editor like the one shown below, paying VERY, VERY close attention to the column positioning of the ITEM, NUMBER, DATE, RETAIL, PAID and VENDOR fields. The numbers in the very first row of the first table shown below are included only for this illustration, as a column guide during setup. You should not include them in the file that you eventually save to disk.

The underline characters after ADVENTURE HINT BOOK must be part of the file because the Extended Basic program uses them as an end-of-file marker. All entries you make in the file MUST also be in between the dashes at the top of the file and the underline characters at the end of the file just as the five records are in the illustration. In other words, the underlines must always occupy the last record in the file.

When you are done setting the file up in your TI-Writer editor, set the tabs so you'll be able to move quickly from field-to-field during data entry. Each tab would of course be set to the left-most character in the field. For example, the tab for NUMBER would be set at column 36, the tab for DATE would be set at column 45 and so on.

ITEM	NUMBER	DATE	RETAIL	PAID	VENDOR
A-MAZE-ING	PHM 3030	06/92	39.95	4.95	TEXCOMP
ABC'S OF ASSEMBLY LANGUAGE		07/84	10.95	0.00	TEXCOMP

AC CIRCUIT ANALYSIS	PHM 6044	03/92	3.95	3.95	TM DIRECT
AC CIRCUIT ANALYSIS	PHM 6044	03/92	3.95	3.95	TM DIRECT
ADVENTURE HINT BOOK		02/92	.95	.95	TEXCOMP

When you are done with the file setup it should look like the one shown below.

ITEM	NUMBER	DATE	RETAIL	PAID	VENDOR
------	--------	------	--------	------	--------

If it does, then save the file to a disk in DSK1 using INVENTORY as the file name. Make sure to use the SF function so the tab stops are saved with the file. That way you'll still have them for the next time you enter data.

When you do begin data entry, make sure to put zeros in the RETAIL and PAID fields where you don't have a RETAIL price or an amount that you PAID for the item. If you leave any entry blank in RETAIL or PAID the Extended Basic program will error out and fail to produce the desired results.

Sorting data in your INVENTORY file will have to be done with TI-Sort or J. Peter Hoddie's Sort Experiment, or your favorite sort utility. Modifying and deleting records is of course done quickly and easily right in the TI-Writer editor.

The Extended Basic program, which I have named QuikAccess, will let you total and display the RETAIL costs and purchase (PAID) costs in the entire file. You can also selectively search for and print records from the file using Product Name (ITEM data in other words), purchase DATE or VENDOR name fields. Likewise, you may print the entire contents of the file by selecting Product Name search, and then pressing <ENTER> at the "Enter data to find" prompt without typing in any data to look for.

All three search options (menu choices 3,4 and 5) include a "Purchase total" at the end of the printout. If you don't have a printer you can erase the printer name in the Set up Printer option and QuikAccess will print everything to the screen.

Lastly, the default Esc and Page Eject codes under Set up Printer are the codes for Epson and Epson compatible printers. If they don't work for you, then simply substitute the ones that do for your brand of printer.

If you want to avoid keying in this program check with your club's librarian. I sent the actual program along with this article and the listing. If you have to key it in, omit the carets (the ^ symbols) when doing the keying. They only exist in this listing to show how many spaces exist between words.

```
1 |QuikAccess
100 IMAGE 00000.10
110 CALL SCREEN(5):: FOR C=0 TO 14 :: CALL COLOR(C,16,5)
```

```

: : NEXT C
120 A=2 :: LN=1 :: EC=27 :: PE=12 :: PR$="PIO" :: CALL
CHAR(126,"FFFF")
130 ON WARNING NEXT :: ON BR EAK NEXT :: ON ERROR 400 140
DISPLAY AT(1,10)ERASE AL L:"QuickAccess" :RPT$(" ",28
)
150 DISPLAY AT(4,1):"1 - Ret all price total": "2 - Purc
hase price total"
160 DISPLAY AT(8,1):"3 - Pro duct name search": "4 - Pur
chase date search"
170 DISPLAY AT(12,1):"5 - Ve ndor name search": "Fctn 7-
Set up printer":RPT$(" ",28) :RPT$(" ",28)
180 CALL KEY(0,K,S):: IF K=1 THEN 270 ELSE IF K=15 THEN
END ELSE IF K<49 OR K>53 THEN 100
190 OPEN #1:"D&K1.INVENTORY",INPUT ,DISPLAY ,VARIABLE 200
IF PR$="" THEN 210 ELSE OPEN #A:PR$,OUTUT
210 ON K=48 GOTO 220,230,240 ,250,260,270
220 X=52 :: Y=6 :: GOSUB 300 :: DISPLAY AT(17,1):"Total
retail^^^^" :: DISPLAY AT(17,10):USING 100:D :: CLOSE
# 1 :: GOTO 470
230 X=59 :: Y=6 :: GOSUB 300 :: DISPLAY AT(17,1):"Total
purchases $" :: DISPLAY AT(17,10):USING 100:D :: CLOSE
# 1 :: GOTO 470
240 C$="" :: X=6 :: Y=30 :: GOSUB 360 :: CLOSE #1 :: GOTO
470
A50 C$="" :: X=46 :: Y=5 :: GOSUB 360 :: CLOSE #1 :: GOTO
470
260 C$="" :: X=66 :: Y=11 :: GOSUB 360 ::CLOSE #1 :: GOTO
470
270 DISPLAY AT(20,1):"Esc Code:";EC;"Page Eject:";PE: :P
R$ :: ACCEPT AT(20,11)SIZE(- 2)VALIDATE(NUMERIC):EC
280 ACCEPT AT(20,26)SIZE(-2) VALIDATE(NUMERIC):PE :: ACCE
PT AT(22,1)SIZE(-20):PR$
290 IF PR$="" THEN A=# :: GO TO 140 ELSE GOTO 140
300 C,D,R=#
310 LINUT #1:A$ :: B$=SEG$( A$,X,Y):: IF SEG$(B$,1,1)="-P "
OR SEG$(B$,1,1)="-" OR SEG $(B$,1,1)="-_" THEN 310
320 C=VAL(B$):: D=D+C :: R=R +1 :: DISPLAY AT(22,1):"Reco
rd:";R
330 CALL KEY(0,K,S):: IF K=1 5 THEN 350
340 IF SEG$(B$,1,1)="-_" THEN 350 ELSE 310
350 RETURN
360 DISPLAY AT(22,1):"Enter data to find:" :: ACCEPT AT(
24,1):C$ :: DISPLAY AT(17,5) : "Press Fctn 9 to abort"
370 DISPLAY AT(22,1):"Correc t? (Y/N)" :: CALL KEY(0,K,S)
:: IF K=09 THEN 380 ELSE IF K=78 THEN 360 ELSE IF K=15
THEN 400 ELSE 370
380 GOSUB 490
390 LINUT #1:A$ :: B$=SEG$( A$,X,Y)::IF SEG$(A$,6,1)="-_"
THEN 440
400 IF SEG$(A$,59,1)="-P" OR SEG$(A$,59,1)="-" OR SEG$(A$
,59,1)="-_" THEN 430
410 IF C$=SEG$(B$,1,LEN(C$)) THEN PRINT #A:A$ :: D$=SEG$(
A$,59,6):: C=VAL(D$):: D=D+ C :: LN=LN+1
420 IF LN>58 THEN PRINT #A:C HR$(EC)&CHR$(PE):: LN=1 ::
GOSUB 490
430 CALL KEY(0,K,S):: IF K=1 5 THEN 450
440 IF SEG$(A$,5,1)="-_" THEN 450 ELSE 390

```

```

450 PRINT #A:"*****Purchase total is $";D :: IF A>0 THEN
CLOSE #A
460 RETURN
470 DISPLAY AT(24,1):" PRESS <ENTER> TO CONTINUE." ::CALL
KEY(0,K,S):: IF K<>13 THEN 470 :: GOTO 14 0
480 RUN
490 PRINT #A:"*****ITEM*****NUMBER
***DATE**RETAIL**PAID**VENDOR
500 PRINT #A:"*****
*****" :: RETURN

```

ITEM	NUMBER	DATE	PRICE	PAID	FROM
10" COLOR MONITOR	PHM 4100	03/89	139.95	139.95	TRITON
A-MAKE-ING	PHM 3030	06/92	0.00	0.00	TEKCOMP
ABC'S OF ASSEMBLY LANGUAGE		07/84	10.95	0.00	TEKCOMP
AC CIRCUIT ANALYSIS	PHT 6044	03/92	3.95	3.95	TM DIRECT
AC CIRCUIT ANALYSIS	PHT 6044	03/92	3.95	3.95	TM DIRECT
ADDITION AND SUBTRACTION 1	PHM 3027	01/92	1.00	1.00	JIM WOOD
ADDITION AND SUBTRACTION 1	PHM 3027	01/92	1.95	1.95	TEKCOMP
ADDITION AND SUBTRACTION 2	PHM 3028	01/92	1.00	1.00	JIM WOOD
ADDITION AND SUBTRACTION 2	PHM 3028	01/92	1.95	1.95	TEKCOMP
ADVENTURE HINT BOOK		02/92	.95	.95	TEKCOMP
ADVENTURE MODULE W/PIRATE ADV	PHM 3041	02/92	.95	.95	TEKCOMP
ADVENTURE SERIES ON DISK		02/92	12.95	12.95	TEKCOMP
ADVENTURE MODULE W/PIRATE ADV	PHM 3041	02/92	13.00	13.00	TEKCOMP
ALIEN ADDITION	PHM 3115	06/92	19.95	19.95	TM DIRECT
ALPINE	PHM 3056	12/91	1.99	1.99	TEKCOMP
ANTHEATER	RON#2025	06/92	.00	.00	TEKCOMP
ANTHEATER	RON#2025	08/92	8.75	8.75	LL CONNER
AXIOM 0P100-TI PRINTER	00204060	07/84	270.00	270.00	TEKCOMP
BASIC TIPS BY ALIST BOK		07/84	14.95	14.95	TEKCOMP
BASKETBALL STATISTICIAN	PHD 5023	12/90	4.95	4.95	TEKCOMP
BEGINNER'S BASIC TUTOR	PHD 5067	07/89	2.99	2.99	TRITON
BEST OF 99ER BOOK		07/84	16.95	14.95	TEKCOMP
BLASTO	PHM 3032	06/92	10.00	10.00	JIM LESHNER
BOXER	TRI-2007	12/92	19.95	16.50	TM DIRECT
BRIDGE BIDDING I	PHT 6026	03/92	3.95	3.95	TM DIRECT
BRIDGE BIDDING II	PHD 5039	03/92	2.95	2.95	TM DIRECT
BRIDGE BIDDING III	PHD 5041	03/92	2.95	2.95	TM DIRECT
BURGER BUILDER	TRI-BAAY	07/92	19.95	16.00	TM DIRECT
BURGERTIME	PHM 3233	06/92	15.95	12.00	JIM LESHNER
CAR WARS	PHM 3054	12/91	2.49	2.49	TM DIRECT
CAR WARS	PHM 3054	07/92	2.00	2.00	TM DIRECT
CASH MANAGEMENT	PHD 5029	02/88	3.99	3.99	TRITON
CHAMPIONSHIP BASEBALL	PHM 3140	03/92	3.95	3.95	TM DIRECT
CHICKEN COOP	TRI-BAAH	06/92	14.95	17.95	BRAATZ
CHISOLM TRAIL	PHM 3110	07/92	3.00	3.00	TM DIRECT
COMPUTER WAR	TRI-BAAK	05/92	9.95	9.95	JOY ELEC
CONNECT FOUR	PHM 3110	06/92	6.95	6.95	TM DIRECT
CONSOLE WRITER V2.1	TRI-BECA	12/89	24.00	24.00	LL CONNER
CREATING ARCADE GAMES		07/89	2.95	2.95	TRITON
DECIMALS	PHM 3096	06/92	14.95	14.95	TM DIRECT
DEFENDER	RX0506	12/91	1.99	1.99	TEKCOMP
DEMOLITION DIVISION	PHM 3116	06/92	17.95	17.95	TM DIRECT

DEMONSTRATION	PHM 3001 07/89	4.95	4.95	TRITON
DESKTOP PUBLISHER	TRI-BAAR 12/92	59.95	49.00	TM DIRECT
DONKEY KONG	RX8512 05/92	11.95	11.95	JOY ELEC
DRAGON MIX	PHM 3117 06/92	16.95	16.95	BRAATZ
DUMMIT	07/92	4.95	4.95	TEKCOMP
EDITOR/ASSEMBLER	PHM 3055 09/88	14.95	14.95	TRITON
EPSON EX-800 PRINTER	02/87	435.00	435.00	MIDWEST
EPYX XJ 500 JOYSTICK	07/89	14.50	14.50	TEKCOMP
EQUATIONS	PHM 3100 07/89	4.95	4.95	TEKCOMP
EZ-KEYS	TEN73603 07/88	14.95	14.95	TENEX
FAMILY ENTERTAINER	PHL 7902 08/92	89.95	20.00	LL CONNER
FATHOM	PHM 3222 05/92	15.95	15.95	JOY ELEC
HOW TO FEEL AT HOME WITH A HOM	07/89	3.95	3.95	TRITON
FINANCE MANAGEMENT	PHD 5022 02/88	3.99	3.99	TRITON
FINANCIAL ANALYSIS ON TI COMPU	TEN32845 07/87	12.95	12.95	TENEX
FLOPPY DISKS (200 EA)	07/91	26.00	26.00	TEKCOMP
FROG JUMP	SF 31176 06/92	12.00	12.00	BRAATZ
GRAPHING PACKAGE	PHD 5013 03/92	3.92	3.92	TM DIRECT
GREAT WORD RACE	TRI-BOAL 12/92	22.50	19.50	TM DIRECT
HEN PECKED	ROM03025 08/92	8.75	8.75	LL CONNER
HOME FINANCIAL DECISIONS	PHM 3006 12/91	2.49	2.49	TM DIRECT
HOME FINANCIAL DECISIONS	PHM 3006 07/92	2.00	2.00	TM DIRECT
HONEY HUNT	PHM 3156 03/92	2.95	2.95	TM DIRECT
HOPPER	PHM 3229 06/92	10.00	10.00	JIM LESHER
HORIZON HARDISK	03/87	210.00	210.00	HORIZON
HOUSEHOLD INVENTORY	12/90	4.95	4.95	TEKCOMP
HUNT THE WUMPUS	PHM 3023 12/91	1.99	1.99	TEKCOMP
HUSTLE	PHM 3034 03/92	6.95	6.95	TM DIRECT
I'M HIDING	PHM 3155 03/92	2.95	2.95	TM DIRECT
INTEGERS	PHM 3094 07/89	9.95	9.95	TEKCOMP
INVENTORY MANAGEMENT	PHD 5024 02/88	3.99	3.99	TRITON
INVOICE MANAGEMENT	PHD 5027 02/88	3.99	3.99	TRITON
JAMBREAKER II	PHM 3194 07/91	5.95	5.95	TEKCOMP
JOYSTICK ADAPTER	07/89	4.95	4.95	TEKCOMP
JUNGLE HUNT	EX0528 05/92	8.95	8.95	JOY ELEC
LAWS OF ARITHMETIC	PHM 3099 07/89	4.95	4.95	TEKCOMP
LEASE/PURCHASE DECISIONS	PHD 5030 03/92	2.49	2.49	TM DIRECT
LEASE/PURCHASE DECISIONS	PHD 6038 08/92	10.00	10.00	LL CONNER
M*A*S*H	PHM 3158 07/92	3.00	3.00	TM DIRECT
MAILING LIST	PHD 5001 02/88	3.99	3.99	TRITON
MANCALA	TRI-2002 07/92	16.00	16.00	TM DIRECT
MARKET SIMULATION	PHD 5010 03/92	2.49	2.49	TM DIRECT
MATH ROUTINE LIBRARY	PHD 5006 07/89	2.95	2.95	TRITON
MEASUREMENT FORMULAS	PHM 3101 07/89	4.95	4.95	TEKCOMP
METOR BELT	PHM 3152 03/92	2.95	2.95	TM DIRECT
MG GAMES	TRI-BHGY 02/88	19.95	19.95	TRITON
MICRO PINBALL	TRI-BADE 12/92	19.95	16.50	TM DIRECT
MICROSOFT MULTIPLAN	PHM 3113 09/88	7.45	7.45	TRITON
MICROSOFT MULTIPLAN	PHM 3113 12/91	4.95	4.95	TEKCOMP
MICROSURGEON	PHM 3220 06/92	10.00	10.00	JIM LESHER
MIDNIGHT MASON	TRI-BADE 12/92	19.95	16.50	TM DIRECT
** MIND CHALLENGERS	PHM 3025 05/92	24.95	14.95	JOY ELEC
MINI MEMORY	PHM 3050 07/84	99.95	74.95	TEKCOMP
MOON PATROL	RK8531 05/92	44.95	11.95	JOY ELEC
MOONMINE	PHM 3131 06/92	39.95	14.95	TM DIRECT
MUNCHMAN	PHM 3057 07/92	39.95	2.00	TM DIRECT
MUNCHMOBILE	PHM 3146 07/91	19.95	5.95	TEKCOMP
MUSIC SKILLS TRAINER	PHD 5009 07/89	29.95	2.99	TRITON

MYSTERY MELODY	PHD 5010 03/92	14.95	2.49	TM DIRECT
NUMBER MAGIC	PHM 3004 07/89	19.95	4.95	TEKCOMP
NUMERATION II	PHM 3051 03/89	39.95	9.95	TRITON
OLDIES BUT GOODIES II	PHD 5017 03/92	24.95	2.49	TM DIRECT
OTHELLO	PHM 3067 12/91	39.95	1.99	TEKCOMP
PARSEC	PHM 3112 07/87	39.95	2.49	TRITON
PARSEC	PHM 3112 07/92	39.95	2.00	TM DIRECT
PC KEYS 2.0	03/87	23.99	23.99	TECHNI-GR
PERCENTS	PHM 3097 06/92	39.95	14.95	TM DIRECT
PERIPHERAL EXPANSION SYSTEM	PHD 1200 06/89	249.95	265.00	COMPETITI
PERSONAL FINANCIAL AIDS	PHD 5003 03/92	19.95	2.49	TM DIRECT
PERSONAL REAL ESTATE	PHM 3022 12/91	69.95	1.99	TEKCOMP
PERSONAL REAL ESTATE	PHM 3022 12/91	69.95	2.49	TM DIRECT
PERSONAL REAL ESTATE	PHM 3022 07/92	69.95	2.00	TM DIRECT
PERSONAL RECORD KEEPING	PHM 3013 12/91	49.95	2.49	TM DIRECT
PERSONAL RECORD KEEPING	PHM 3013 07/92	49.95	2.00	TM DIRECT
PERSONAL REPORT GENERATOR	PHM 3044 07/84	49.95	10.95	TEKCOMP
PERSONAL REPORT GENERATOR	PHM 3044 12/91	49.95	1.99	TEKCOMP
PICNIC PARANOIA	RK8517 12/91	44.95	1.99	TEKCOMP
POPEYE	TRI-GAAY 06/92	19.95	15.00	JIM LESHER
PRE-SCAN IT	TEN73622 07/88	10.95	10.95	TENEX
PRESS	TRI-BHJC 10/88	59.95	00.00	TRITON
PRINCESS AND THE FROG	ROM01025 08/92	39.95	8.75	LL CONNER
PRO TYPER	TRI-BABG 12/92	19.95	16.50	TM DIRECT
PROGRAMMING AIDS I	PHD 5004 07/89	14.95	2.95	TRITON
PROGRAMMING AIDS II	PHD 5112 06/92	19.95	10.00	JIM LESHER
PROGRAMMING AIDS III	PHD 5112 06/92	19.95	10.00	JIM LESHER
PROGRAMMING IN TI BASIC	TEN21819 07/87	8.95	8.95	TENEX
PROTECTOR II	RX8516 12/91	44.95	1.99	TEKCOMP
Q*BERT	TRI-GAAZ 06/92	19.95	26.00	BRAATZ
QMAZE	TRI-BAAZ 07/92	19.95	16.00	TM DIRECT
RABBIT TRAIL	FV 1004 00/92	34.95	10.00	LL CONNER
READING FLIGHT	PHM 3082 07/89	39.95	9.95	TEKCOMP
READING RALLY	PHM 3048 07/89	54.95	9.95	TEKCOMP
READING ROUNDUP	PHM 3047 07/89	54.95	9.95	TEKCOMP
RED BARON FLIGHT SIMULATOR	TRI-BADH 12/92	27.95	21.50	TM DIRECT
ROTOR RAIDERS	ROM06025 08/92	39.95	8.75	LL CONNER
RS-232 CARD	PHD 1220 07/91	174.95	60.00	TEKCOMP
RS-232 Y CABLE	PHA 2620 12/90	0.00	10.95	TEKCOMP
SATURDAY NIGHT BINGO	PHD 5025 03/92	29.95	3.95	TM DIRECT
SCHOLASTIC SPELLING-LEVEL 3	PHM 3059 06/92	59.95	14.95	BRAATZ
SCHOLASTIC SPELLING-LEVEL 4	PHM 3060 06/92	59.95	14.95	BRAATZ
SCHOLASTIC SPELLING-LEVEL 5	PHM 3061 06/92	59.95	14.95	BRAATZ
SCHOLASTIC SPELLING-LEVEL 6	PHM 3062 06/92	59.95	14.95	BRAATZ
SECURITIES ANALYSIS	PHM 3012 12/91	54.95	14.95	TM DIRECT
SHAMUS	RX8518 05/92	44.95	14.95	JOY ELEC
SLYMOIDS	PHM 3197 06/92	39.95	10.00	JIM LESHER
SOFTWARE VARIETY VALUE PACK	PHV 1002 06/92	54.95	20.00	LL CONNER
SORGAN II	TRI-BOAU 12/92	19.95	16.50	TM DIRECT
SOUNDTRACK TROLLEY	PHM 3157 03/92	49.95	2.95	TM DIRECT
SPACE BANDITS	PHM 3149 03/92	49.95	2.95	TM DIRECT
SPACE JOURNEY	SF 31191 03/92	39.95	9.95	TM DIRECT
SPACE PATROL	TRI-2002 07/92	19.95	16.00	TM DIRECT
SPEAK AND MATH	PHD 6031 06/92	24.95	10.00	JIM LESHER
SPEAK AND MATH	PHD 5031 07/89	29.95	2.99	TRITON
SPEAK AND SPELL	PHD 5030 03/92	29.95	4.95	TM DIRECT
STAR RUNNER	TRI-BAAP 07/92	19.95	16.00	TM DIRECT
STAR TRAP	TRI-BOAR 07/92	19.95	16.00	TM DIRECT

STRIKE THREE	TRI-BADJ 07/92	19.95	16.00	TM DIRECT
SUPER DEMON ATTACK	PHM 3219 12/91	39.95	1.99	TEKCOMP
SUPER EXTENDED BASIC	TRI-EDAK 07/87	59.95	59.95	TRITON
SUPER SKETCH	02/92	59.95	15.00	TEKCOMP
TAX/INVESTMENT RECORD KEEPING	PHM 3016 07/92	69.95	2.00	TM DIRECT
TAX/INVESTMENT RECORD KEEPING	PHM 3016 12/91	69.95	1.99	TEKCOMP
TEACH YOURSELF BASIC	PHD 5007 07/89	34.95	2.99	TRITON
TEACH YOURSELF EXTENDED BASIC	PHD 5019 07/89	24.95	2.99	TRITON
TERMINAL EMULATOR II	PHM 3035 12/91	49.95	1.99	TEKCOMP
TERRY'S TURTLE ADVENTURE	PHM 3154 03/92	49.95	2.95	TM DIRECT
THE ATTACK	PHM 3031 07/92	39.95	2.00	TM DIRECT
THE ATTACK	PHM 3031 12/91	39.95	2.49	TM DIRECT
THE ATTACK	PHM 3031 12/91	39.95	1.99	TEKCOMP
TI ARCADE GAME SERIES	PHL 7009 08/92	119.85	20.00	LL CORNER
TI COUNT ACCOUNTS PAYABLE	PHD 5094 07/91	99.95	14.99	TEKCOMP
TI COUNT ACCOUNTS RECEIVABLE	PHD 5094 07/91	99.95	14.99	TEKCOMP
TI COUNT GENERAL LEDGER	PHD 5092 07/91	99.95	14.99	TEKCOMP
TI COUNT INVENTORY	PHD 5096 07/91	99.95	14.99	TEKCOMP
TI COUNT MAIL LIST	PHD 5097 07/91	99.95	14.99	TEKCOMP
TI COUNT PAYROLL	PHD 5095 07/91	99.95	14.99	TEKCOMP
TI INVADERS	PHM 3053 07/92	39.95	2.00	TM DIRECT
TI LOGO II	PHM 3109 07/89	129.95	7.95	TRITON
TI MINI-WRITER	PHT 6103 07/84	19.95	19.95	TEKCOMP
TI WRITER	PHM 3111 03/89	99.95	12.95	TRITON
TI-99 PROGRAMS BY STEVE DAVIS	12/90	0.00	1.95	TEKCOMP
TI-99/4A GAMES	07/89	0.00	2.99	TRITON
TI-TOAD	TRI-BADG 12/92	19.95	16.50	TM DIRECT
TOMBSTONE CITY: 21ST CENTURY	PHM 3052 07/92	39.95	2.00	TM DIRECT
TOMBSTONE CITY: 21ST CENTURY	PHM 3052 12/91	39.95	2.49	TM DIRECT
TOTAL FILER	TEN65311 07/88	19.95	19.95	TENEX
TRIS	ASG-ES1a 07/92	21.95	16.00	TM DIRECT
TRIVIA DATA BASE	07/89	0.00	4.95	TRITON
TUNNELS OF DOOM	PHM 3042 12/90	59.95	9.95	TEKCOMP
UNIVERSAL MONITOR CABLE	TRI-OACA 04/87	14.95	14.95	TRITON
VIDEO GAMES 1	PHM 3018 06/92	29.95	17.95	TM DIRECT
VIDEO GRAPHS	PHM 3005 03/92	19.95	9.95	TM DIRECT
VON GRAPHS	12/89	19.95	10.00	LL CORNER
WEIGHT CONTROL AND NUTRITION	PHM 3021 06/92	59.95	14.95	TM DIRECT
WORD RADAR	PHM 3105 06/92	39.95	17.95	TM DIRECT
YUCAN BUSINESS MANAGER	12/90	0.00	7.95	TEKCOMP
ZERO ZAP	PHM 3036 06/92	29.95	17.95	TM DIRECT
ZERO ZAP	PHM 3036 07/92	29.95	12.00	TM DIRECT

RELISTING PROGRAMS

----- by Jim Peterson
from the Milwaukee Area User Group, October, 1992

At the last meeting, our editor asked me about ways to convert listed programs to 28-column width, and to convert listed programs to runnable programs. A couple of days later, I had a phone call from a user asking about the same thing. And, I have received a few newsletters with reprints of an article describing a method of listing to the printer in 28-column format.

Why list in 28-column format? Because that is the way a program appears on the screen. It is much easier to key in a program accurately when it is published in 28-column format, because you can edit your work by checking the position of characters in relation to the line above - especially when the program contains long stretches of blanks, or long hex codes.

About that method currently being reprinted - it doesn't work. At least it doesn't work properly with Extended Basic programs. The idea is that you open the printer and send it ASCII codes 27 8 28, which sets the right margin at 28. You can get the same result by OPEN #1:"PIO", VARIABLE 20.

The problem is that Extended Basic lines can be keyed in up to 140 characters long, and can be forced considerably longer. When you LIST a program to disk, it is saved in DV/80 format. Any line longer than 80 characters is broken into separate 80 character records. When you break those records into 28-character segments, you have program lines stopping in the middle and then continuing on the next line. They can still be keyed in correctly, if you realize what has happened, but the listing will not be in screen format, which is the whole purpose of using 28 columns.

Besides, you probably don't want to output to the printer. You want to output to disk, so you can incorporate the listing into a text article, as I am about to do.

So, what to do? If you have the Triton Super Extended Basic module, it is as easy as pie. Just -

```
LIST "DSK1.LISTING":28:1-32766. It will do a perfect job
but the listing will be in DV/28 format, which will not load
into Funnelsweb. So I will now write a little program, save it,
list it with my Super Extended Basic, and then load my little
program to convert the DV/28 file into a DV/80 file which I will
insert right here -
```

```
100 DISPLAY AT(10,1)ERASE ALL
L:"Input file? DSK": "" : "Outp
ut file? DSK" :: ACCEPT AT(1
0,16):IN# :: ACCEPT AT(12,17
):OUT#
110 OPEN #1:"DSK"&IN#:VARIABLE
LE 28 INPUT :: OPEN #2:"DSK"
&OUT#:OUTPUT
120 LINPUT #1:N# :: PRINT #2
:N# :: IF EOF(1)<>1 THEN 12#
ELSE CLOSE #1 :: CLOSE #2
```

But you don't have the Triton module? Well, several years

ago I wrote a 28 column converter which will do the job perfectly. It will also optionally replace and transliterate those characters that get messed up when you print a program listing through the Formatter. It will even recognize unprintable blank characters which have been keyed in with the CTRL key and print their key letter underlined. That program was published in Tips From the Tigerclub #18 with an update in #21. It is available on my TI-PD disk #1015 and I will put it on the Spirit of 99 BBS again.

That program does require that the listing have standard line number spacing, numbered by tens from 100. If you are starting with a listing which is not in that format, this one will do the job but not as easily, because you have to first insert a carriage return at the end of each program line. To do that, load the listing onto the Funnelweb Editor, press CTRL Q to get the hollow cursor and CTRL U to get the underline cursor, go to the end of each program line with the arrow keys and press M.

```

100 DISPLAY AT(3,6)ERASE ALL
:"PROGRAM RELISTER":": W1
11 reformat a LISTed XBas
ic program from any line leng
th to any other length."
110 DISPLAY AT(8,1):" Each
program line (not file li
ne) must end in a carriaq
e return."
120 DISPLAY AT(12,1):"Input
filename?": "DSK" :: ACCEPT A
T(13,4):IF@ :: DISPLAY AT(15
,1):"Output filename?": "DSK"
:: ACCEPT AT(16,4):OF@
130 DISPLAY AT(18,1):"Presen
t line length?": :: ACCEPT AT
(18,22)SIZE(2)VALIDATE(DIGIT
):A
140 DISPLAY AT(20,1):"Reform
at to what length?": :: ACCEP
T AT(20,26)SIZE(2)VALIDATE(D
IGIT):X :: IF X=A THEN 130
150 OPEN #1:"DSK"&IFS,INPUT
:: OPEN #2:"DSK"&OFS,OUTPUT
:: IF X<A THEN 230
160 IF EOF(1)THEN 270 :: LIN
PUT #1:M@ :: L=LEN(M@) :: IF
POS(M@,CHR$(13),1)=@ THEN 18
0
170 IF P=L<X+1 THEN PRINT #2
:M@ :: P=@ :: GOTO 160 ELSE
PRINT #2:SEG$(M@,1,X-P)&CHR$(
13):SEG$(M@,X-P+1,255):: P=
@ :: GOTO 160
180 IF L<A THEN M@=M@&RPTS("
",A-L):: L=A
190 IF P=@ THEN PRINT #2M@:
:: P=L :: GOTO 160
200 IF P=L<X THEN PRINT #2:M

```

```

@::P=P+L :: GOTO 160
210 IF P+L=X THEN PRINT #2:M
@&CHR$(13)::P=@ :: GOTO 160
220 PRINT #2:SEG$(M@,1,X-P)&
CHR$(13):SEG$(M@,X-P+1,255)
:: P=LEN(SEG$(M@,X-P+1,255))
::GOTO 160
230 IF EOF(1) THEN 270:: LIN
PUT #1:M@
240 L=LEN(M@):: IF L>P>X THE
N PRINT #2:SEG$(M@,1,X-P)&CH
R$(13):: M@=SEG$(M@,K-P+1,25
5):: P=@ :: GOTO 240
250 IF M@=CHR$(13)THEN 230
260 IF POS(M@,CHR$(13),1)<>@
THEN PRINT #2:M@ :: P=@ ::
GOTO 230 ELSE PRINT #2:M@::
P=LEN(M@):: GOTO 230
270 CLOSE #1:: CLOSE #2

```

That one is also on TI-PD 1015. Now, about converting listings to programs, without having to key them in - well let's save that for next month. END

Tiny Tip

----- Mark Schafer
from the Bluegrass 99: BYTENONGER newsletter, Oct., 1992

I am going to use this forum to present one little programming tip. This one is inspired by a Jim Peterson article in which he presented the following program for figuring first class postage given the weight:

```

100 INPUT "OUNCES? ":A :: PRINT .23*(INT(A)-INT(A)<>
A))+.06 :: GOTO 100

```

Short as this is, I can still make it shorter. Sometimes I wonder if I'm the only one who knows mathematics. By optimizing his formula, it becomes:

```

100 INPUT "OUNCES? ":A :: PRINT .06-.23* INT(-A) :: GOTO
100

```

There! I like that better. What I like best about my formula is that it mentions the variable (A) only once, so if you were using a 10 character variable name, it doesn't bother you so much to type it once instead of three times.

While I am on the subject, let me give you a more complete list of estimating formulas. These are formulas that can take any number and convert it to a nearby integer. I'll use X as the variable being estimated.

1) INT(X) obviously just truncates to the next lower integer. It's important to know this always makes a non-integer go down; for example, INT(-4.1)=-5.

2) $\text{INT}(X+.5)$ estimates a number to the nearest integer. As is common practice, a number ending in .5 gets rounded up.

3) $-\text{INT}(-X)$ estimates upward to the next higher integer. This is the formula I used above. It takes advantage of the fact that the INT of a negative non-integer has a higher absolute value than the original number (further away from zero) as illustrated in formula 1. So this formula turns 4.1 into 5 and leaves 4 as it is.

4) $-\text{INT}(.5-X)$ is like formula number 2 except it rounds a number ending in .5 downward instead of upward. So 4.5 becomes 4 while 4.5001 becomes 5. This is just in case you'd rather that the number not go up unless it's genuinely closer to the higher number.

If you want to estimate to something other than integers, you can move the decimal point first (by multiplying or dividing by a power of ten) and then put it back when done. For example, $\text{INT}(X*10+.5)/10$ estimates to the nearest tenth. Leave out the +.5 and will truncate to the nearest tenth, and so on. This tip may not be all that tiny, but perhaps future installments will live up to the name.

COMPRESS IT ANYWAY

Mark Schafer
from the Bluegrass 99: BYTEMONGER newsletter, Nov., 1992

It's been a long time since there has been an Extended BASIC program in Bytemonger. Lately I've been known for my assembly language programming, but this program has to do with assembly language.

This program takes object code and compresses it while still allowing it to be loaded by the same loaders as before. It will work on all object code created by an assembler.

Wait a minute, you might say, XB cannot load compressed object code. Compress It Anyway. What if it is already compressed? Compress It Anyway.

Technically, this program doesn't really compress. It eliminates the waste in object code to make it shorter. Compress It Anyway sounds better than Optimize It Anyway, and besides, I like the abbreviations (C. I. A.).

There are four forms of waste in assembly language object code. The names I give to them are: excessive load address tags, line numbers, checksums, and not packing. Two of these come in two forms, you might say there are six. Let me discuss each one.

To understand excessive load address tags you must know that object code is made up of tags, most of which are followed by one or more parameters, which are either ASCII or hex. The tags are listed in page 14 of the E/A quick reference card. Tags 9 and A are the load address tags. They are used excessively in two different ways. 9 or A is used at the beginning of each record in the body of the code. I figured out that the loader doesn't need to be reminded what the load

address is all the time. So CIA gets rid of them unless deemed necessary. Also, sometimes they are used in succession. That's like telling the loader, "Load code here; no, on second thought, load code here." CIA removes all but the last one when they're used successively.

At the end of every line in object code is a four-character line number that is not needed, so CIA gets rid of that to make room for more tags.

Near the end of every line is either a checksum tag (tag 7) or a checksum ignore tag (tag 8). The loader doesn't have to check the sum, so CIA removes these tags which make room for another tag.

The most puzzling is the fact that the assembler does not put as many tags as will fit in each record. There's room in every record for one more tag. CIA checks this. I call this process "packing." The other form of this waste is the fact that the assembler starts a new record when it reaches the end of the code before doing the tags that come at the end. This is not necessary, so CIA continues on the same record.

As it turns out, compressed object code doesn't have line numbers or check-sums, so CIA can't do as well on them as it does on uncompressed object code. They still benefit from the other two processes.

The most effective among all these processes will be due to packing. The least effective is line numbers. Without line numbers, there are four blank spaces at the end of almost every record. That's not enough room for another tag since they're usually five characters long, so you might as well put a line number there. The first record, however, only has two spaces, so leaving out the line number save you one tag on the first record. Big deal. I was hoping it would make a bigger difference than that. The chance of it saving you a record are about one chance in 16. The chances of saving a sector: one chance in 48.

That's one of the reasons why this program makes some of the processes optional. You don't have to eliminate the line numbers if you don't want to.

Now let's talk about running it. It will ask you for the names of the input and output files, like so many other programs do. You must include the device name (DSK1, DSK2, etc), so this gives you flexibility in file processing.

It will then give you a list of the optional processes and ask you which ones you DON'T want to use. If excessive load address tags is the only one it lists, then that means that the input file is compressed. Type the letter in front of the name to NOT use that process. I did this originally just in case there was a loader that didn't like you eliminating everything, but so far, I haven't found one. You can just hit return to use all of them. You can also hit "Q" to go back to the file questions.

Packing is not an optional process because it would be so much trouble. Since it works, there should be no problem with that. So if you specify all the processes (in other words, don't do any of them), it will still reduce the object code because of the packing.

The program will bomb out if the input file is not D/F ## file (cheap program). If it is a D/F 8# file but doesn't look like object code, it will tell you so and give you the option to

continue anyway. I do this because so often I've wanted to say to a program, "Do it anyway!" And since this program has the word "anyway" in its name, I felt it was appropriate to have this option.

It will print the new object code in the screen as it goes, if you don't like that, you can change line 559. If it comes to an unrecognized tag, it will tell you what it is, print the line it occurred on, and give you the option to continue anyway.

When it's done, it will give you statistics, so you can measure its effect. It will tell you how many tags, records, and sectors the code had before and after. The tag reduction is more a matter of interest. The record reduction will give you an idea of how much time will be saved when loaded. The sector reduction tells you how much disk space is saved. (If you look on line 459, you can see how I used the rounding up technique I talked about last month.)

From the studies I've done, CIA reduces compressed object code by about 10% and uncompressed object code by about 25%. The savings aren't as big as I had hoped because compressed object code doesn't have two of the forms of waste, and eliminating the line number turned out to be so minor. but it never hurts, so you might as well Compress It Anyway!

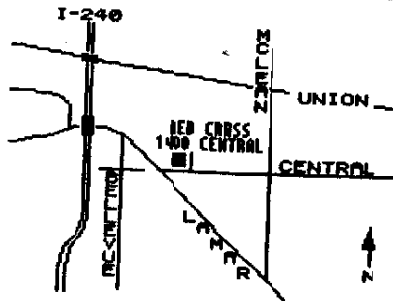
```

1 | COMPRESS IT ANYWAY 19/18/92
2 | REV 2.1.1 17/24/92
3 | BY MARK SCHAFFER
4 | BLUEGRASS 99 COMPUTER SOCIETY
59 TS="123456789ABCPI"
100 DIM LA(4),NA(4)
110 PRINT "ENTER FILE NAMES WITH DEVICE NAMES."
120 INPUT "INPUT FILE NAME ":IFS :: IF IFS="" THEN END
    ELSE IF POS(IFS,".")=0 THEN 110
130 INPUT "OUTPUT FILE NAME ":OFS :: IF OFS="" THEN 120
    ELSE IF POS(OFS,".")=0 THEN 110
140 IF IFS=OFS THEN PRINT "SORRY, FILES ARE NOT ALLOWED
    TO MATCH." :: GOTO 120
150 OPEN #1:IFS,FIXED 80,INPUT
150 LINPUT #1:R# :: K=ASC(R#) :: IF K=1 OR K=48 THEN 190
170 PRINT "FIRST RECORD IS ";R#:"THAT DOESN'T LOOK LIKE
    OBJECT CODE." :: INPUT "CONTINUE ANYWAY? ":Y# :: IF
    Y#="N" OR Y#="NO" THEN CLOSE #1 :: GOTO 120
180 INPUT "TREAT AS COMPRESSED? ":Y# :: IF Y#="" THEN 170
    ELSE IF Y#="Y" THEN K=1 ELSE K=48
190 PRINT "A EXCESSIVE LOAD ADDR TAGS" :: IF K=48 THEN
    PRINT "L LINE NUMBERS": "C CHECKSUMS"
200 PRINT :: INPUT "WHICH DO YOU NOT WANT TO
    ELIMINATE? ":E# :: A1=POS(E#,"A",1) :: L1=POS(E#,
    "L",1) AND K=48 :: C1=POS(E#,"C",1) AND K=48
210 IF POS(E#,"C",1) THEN CLOSE #1 :: GOTO 120
220 LA(1)=-1 :: IF K=1 THEN B=2 :: HD=256 ELSE B=4 ::
    HD=16
230 P=B+10 :: CL=P-1 :: OS=SEG$(R#,1,CL) :: T,R=1 :: L=79
    :: IF L1 THEN L=75
240 IF C1 THEN L=L-B-1
250 OPEN #2:OFS,FIXED 80,OUTPUT
    
```

```

260 TN=POS(T$,SEG$(R#,P,1),1) :: T=T+1 :: IF TN>B THEN
    280
270 PRINT "FOUND TAG";ASC(SEG$(R#,P,1));" IN RECORD ";R#
    :: INPUT "CONTINUE ANYWAY? ":Y# :: IF Y#="" THEN 270
    ELSE IF Y#="Y" THEN TN=11 ELSE 420
280 ON TN GOTO 330, 330, 330, 360, 360, 360, 360, 370, 370,
    290, 290, 340, 340, 390, 380
290 LAT=TN :: K=0 :: LA=SEG$(R#,P+1,B) :: FOR A=1 TO B ::
    NA(A)=ASC(SEG$(LA$,A,1)) :: IF B=4 THEN IF NA(A)>57
    THEN NA(A)=NA(A)-55 ELSE NA(A)=NA(A)-48
300 IF NA(A)=LA(A) THEN K=K+1
310 NEXT A :: IF K=B THEN 370
320 FOR A=1 TO B :: LA(A)=NA(A) :: NEXT A :: IF A1=0 THEN
    IF POS(T$,SEG$(R#,P+B+1,1),1)=TN THEN 370
330 A#=SEG$(R#,P,B+1) :: GOSUB 480 :: GOTO 260
340 AS=SEG$(R#,P,B+1) :: GOSUB 480 :: A=B :: K=2
350 LA(A)=LA(A)+K :: IF LA(A)>HD THEN LA(A)=LA(A)-HD ::
    K=1 :: A=A-1 :: GOTO 350 ELSE 260
360 LAT=0 :: AS=SEG$(R#,P,B+7) :: GOSUB 480 :: GOTO 260
370 P=P+B+1 :: GOTO 260
380 AS=SEG$(R#,P,7) :: GOSUB 480 :: GOTO 260
390 R=R+1 :: LINPUT #1:R# :: K#=SEG$(R#,1,1) :: IF K#=""
    THEN 410
400 P=1 :: GOTO 260
410 LAT=0 :: AS="" :: GOSUB 530 :: NR=NR+1 :: GOSUB 620
    :: PRINT #2:SEG$(R#,1,76)&LN#
420 PRINT USING 470:" ", " OLD", " NEW"
430 PRINT USING 470:"TAGS",T,NT
440 PRINT USING 470:"RECORDS",R,NR
450 PRINT USING 470:"SECTORS",1-INT(-R/3),1-INT(-NR/3)
460 CLOSE #1 :: CLOSE #2 :: END
470 IMAGE #####
480 P=P+LEN(AS)
490 K=O#&A# :: IF LEN(K#)>L THEN 530
500 O#&K#
510 CL=CL+LEN(AS)
520 NT=NT+1 :: RETURN
530 IF C1 THEN 610
540 O#&O#&"F" :: NT=NT+1 :: NR=NR+1 :: IF L1 THEN GOSUB
    620 :: O#&O#&RPTS(" ",75-CL)&LN#
550 PRINT #2:O# :: PRINT O#
560 IF A1 THEN 580
570 O#&A# :: CL=LEN(O#) :: GOTO 520
580 IF LAT=0 THEN 570
590 O#&SEG$(T$,LAT,1) :: FOR A=1 TO B :: IF B=4 THEN IF
    LA(A)>9 THEN K=LA(A)+55 ELSE K=LA(A)+48 ELSE K=LA(A)
600 O#&O#&CHR$(K) :: NEXT A :: CL=A :: NT=NT+1 :: GOTO
    490
610 O#&O#&"#####" :: CL=CL+B+1 :: NT=NT+1 :: GOTO 540
620 LN#&RPTS(" ",1-LEN(STR$(NR))&STR$(NR) :: RETURN
    
```

4 COMMENT LINES 58 LINES
135 STATEMENTS 3076 CHARACTERS



LOCATION MAP

WORKSHOP : to be announced.

PROGRAM BIT - third Thursday

JANUARY 21st , 1993

MEETING: 7:00pm - Red Cross Building - 1400 Central.

7:00pm - Doors Open

7:15pm - General announcements, elections.

7:30pm - Demonstration of PC 99 TI Emulator for IBM compatibles.

9:30pm - Meeting ends.

9:45pm - Late dinner at Shoney's on Union Ave.

NOTICE

Information contained in Tidbits is accurate and true to the best of our knowledge. Viewpoints and opinions expressed in Tidbits are not necessarily that of the Mid-South 99'ers. We welcome any opinions/corrections from our readers. Articles may be reprinted elsewhere as long as credit is given to the author and newsletter.

GROUP INFO

Visitors and potential members may receive 2 free issues of Tidbits while they decide if they wish to join (no obligation) On the top of your label is a code. A Y means you are a member, M means 2 free list, UG means user group and S means a business. Beside the Y is a date, one year from that date your dues are due. A dollar sign (\$) on the label will indicate that your dues are due. The library is open only to members. Library list is \$1. Mail order disk library access is \$2 for the first disk and \$1 for each additional disk - max of 5 disks per month. Order by disk number only. At meetings, library access is FREE if you exchange your disk for ours or \$1 per disk for our disks. Send all mail order library requests to librarian's address! Send dues and correspondence to group address.

CALENDAR

MEETINGS: JAN 21 FEB. 18, (3rd Thursday!)

WORKSHOPS: TO BE ANNOUNCED

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The 9640 NEWS BBS 300/1200/2400/4800/7200/9600/12000/14400
Hayes. 901-368-0112

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