

LAST DAYTON MEETING: By FRANK LARRICK

THIS MONTHS REGULAR MEETING WAS, AS IS NOW USUAL, PRECEDED BY THE GRAPHIC SIG MEETING. THIS MONTH STARTED DISCUSSIONS ON THE "CSGD" PACKAGE BY DAVE ROSE. COVERED TODAY WAS "CSGD 1". THE REGULAR MONTHLY MEETING WAS CALLED TO ORDER AT 12:23 PM. IN THE FIFTH FLOOR COIN ROOM OF THE DOWNTOWN LAZARUS STORE BY DAYTON CHAPTER PRESIDENT RICK KELLOGG. RICK WELCOMED ALL MEMBERS AND GUESTS AND THANKED LAZARUS FOR THE USE OF THEIR FACILITIES. RICK THEN READ THE GROUP DISCLAIMER REGARDING THE SALE AND/OR PROMOTION OF HARDWARE AND SOFTWARE AT THE GROUP MEETINGS. OTHER GROUP OFFICERS ATTENDING THE MEETING WERE FRANK LARRICK (DAYTON SECRETARY), ERIC BISHOP (DAYTON LIBRARIAN) AND ERIC SAUNDERS (NEWSLETTER EDITOR). SUBSTITUTING FOR (DAYTON TREASURER) BILL STAGER TODAY WAS FRANK LARRICK. UNDER THE HEADING OF OLD BUSINESS THE FOLLOWING ITEMS WERE DISCUSSED: RICK REVIEWED THE LIST OF WINNERS OF THE LAST "SUPER RAFFLE"; WE WILL AGAIN BE REPRESENTED AT THE UPCOMING LIMA FAIRE TO BE HELD ON SATURDAY MAY THE 20th ON THE GROUNDS OF THE OHIO STATE UNIVERSITY EXTENSION IN LIMA. HOURS WILL BE FROM 9 AM. TO 5 PM. AND ADMISSION WILL BE "FREE". MANY NOTABLES FROM THE "TI" WORLD WILL BE AT THE FAIRE TO SHOW THEIR WARES AND THERE WILL BE ONE HOUR DEMONSTRATIONS STARTING EVERY HALF HOUR. THERE WILL BE A MAP TO THE MEETING SITE IN A NEWSLETTER PRECEEDING THE FAIRE; RICK GAVE AN UPDATE ON THE STATUS OF THE NEWSLETTER WHICH IS TO GO INTO THE MAIL ON MARCH 12th OR 13th; RICK PRESENTED THE FINANCIAL REPORT TO THE GROUP INCLUDING THE BALANCE AS OF JANUARY 1989. UNDER THE HEADING OF NEW BUSINESS THE FOLLOWING ITEMS WERE DISCUSSED: TO MARK OUR ANNIVERSARY OUR MAY MEETING IS GOING TO BE A COMBINED MEETING HELD AT THE MIAMI UNIVERSITY EXTENSION IN MIDDLETOWN, OHIO. IT WILL BE A SPECIAL "FOUNDERS DAY" MEETING TO WHICH ALL SIX OF OUR CHARTER MEMBERS ARE BEING INVITED COMBINED WITH A SWAP MEET. ALL MEMBERS ARE INVITED TO BRING THEIR HARDWARE AND SOFTWARE TO SELL OR TRADE. THERE WILL BE CAKE PROVIDED BY THE GROUP. THERE WILL BE DEMONSTRATIONS OF SOFTWARE, NEW AND ALREADY IN OUR LIBRARY, AND HARDWARE, INCLUDING THE RAVE KEY BOARD, DIJIT SYSTEMS AVPC (ADVANCED VIDED PROCESSOR CARD) AND MYARC'S HDPC (HARD DISK/FLOPPY CONTROLLER) AND MORE. FURTHER DETAILS TO BE INCLUDED IN THE APRIL AND MAY NEWSLETTERS; WE RECEIVED A VERY NICE LETTER FROM JIM SWEDLOW THANKING US FOR OUR FAREWARE COLLECTION ON HIS BEHALF. JIM'S CONTRIBUTIONS TO OUR LIBRARY INCLUDE "XB TOOLS" AND "SIDE-PRINT"; RICK POINT OUT AN ARTICAL IN "PC COMPUTING" (DECEMBER 1988 ISSUE) CALLED "GONE BUT NOT FORGOTTEN". APPROXIMATELY ONE HALF OF THE ARTICAL WAS ON THE 99-4A, VENDERS FOR THE 4A AND USER GROUPS; RICK HANDED OUT CURRENT MEMBERSHIP LISTS TO ALL REQUESTING THEM; HE PASSED AROUND THE NEW SPRING '89 "TRITON", "MARLIN P. JONES & ASSOC." AND "MICRO CENTER" CATALOGS FOR VIEWING; "COMPUTER SHOPPER" MARCH '89 ISSUE CONTAINED AN ARTICAL ON CHOOSING A PRINTER AND THE "TI FORUM" SECTION BY BARRY TRAVER AND JONATHAN ZITTRAIN CONCERNING THE POSSIBILITY OF TI GROUPS HAVING, WITHIN THEIR STRUCTURE, SIG GROUPS ORIENTED TO OTHER BRANDS

OF COMPUTERS, HARDWARE MODIFICATION KITS BY JOHN GUION (CO-DESIGNER OF THE P-GRAM), TRITON'S SUPER EXTENDED BASIC MODULE, "DMIII" PROGRAM ADVANTAGES, SOUTHWEST BELL'S INTRODUCTION OF A "BULLETIN BOARD SERVICE CHARGE" WHICH MAY MEAN THE DENISE OF SOME OF THE SMALLER BOARDS THAT RUN CLOSE TO THE COST LINE. TO REGISTER OPINIONS CONCERNING THIS TREND YOU MAY WRITE "PUBLIC UTILITIES COMMISSION" /7800 SHOAL CREEK BLVD. /SUITE 400-N /AUSTIN, TX 75787 /ATTN: Mr. PHILLIP HOLDER /CHIEF HEARINGS EXAMINER /Rm. REGINALD HIRSCH vs. SOUTHWESTERN BELL TELEPHONE. THE TEXAS INSTRUMENT NUMBERS FOR 99-SPECIFIC INFORMATION ARE-FOR GENERAL INFORMATION (806) 747-1882 AND FOR TECHNICAL ASSISTANCE (806) 741-2663 AND A TI WRITER FIX BY JIM PETERSON; THE GROUP IS PARTICIPATING IN A "MICROPENDIUM" OFFER THAT ALLOWS US TO BY COPIES OF THEIR MAGAZINE AT \$1.00 PER ISSUE. THEY ARE TO BE DELIVERED TO ONE DESTINATION AND WILL BE OFFERED TO MEMBERS ON A FIRST COME FIRST SERVED BASIS AT THE COST PRICE. TWO COPIES WILL BE PLACED IN THE MAIN LIBRARYS OF BOTH DAYTON AND CINCINNATI FOR PUBLIC USE AND TO LET PEOPLE KNOW WE ARE STILL AROUND; JOHN CONNOLLY HAS HAD OPEN HEART SURGERY AND IS RECUPERATING AND WILL SOON BE HOME; RICK PASSED AROUND INFORMATION AND EXAMPLES OF THE OUTPUT FROM THE PROGRAM "TI-TAX"; FROM THE FEB. '89 ISSUE OF "MICROPENDIUM" CAME INFORMATION ON THE FOLLOWING: ASGARD AND MYARC WILL NO LONGER GIVE DELIVERY DATES FOR NEW HARDWARE AND SOFTWARE BECAUSE OF THE TIME IT TAKES TO DEBUG A PACKAGE CANNOT EASILY BE DETERMINED; FROM ASGARD COMES "TYPEWRITER 99" WHICH TURNS THE 4A OR 9640 INTO AN ELECTRONIC TYPEWRITER FOR THE JOB THAT DOES NOT REQUIRE A FULL WORD PROCESSOR. COMES ON CASSETTE, DISK OR MODULE. COSTS \$14.95 FOR THE CASSETTE OR DISK VERSION AND \$24.95 FOR THE MODULE; REGINA'S PROGRAM (XB) "BAKE A CAKE" CONTAINS RECIPES FOR 12 CAKES AND WILL FIGURE QUANTITIES OF INGREDIENTS; AN XB PROGRAM AND TUTORIAL BY JERRY STERN ALLOWS THE PROPER READING AND PRONUNCIATION OF NUMBERS; HOW TO OBTAIN UPDATED VERSIONS OF "TI ARTIST" FROM TEXAMENTS; A HARDWARE PROJECT THAT ALLOWS THE USES OF SUPER EXTENDED BASIC WITH THE WIDGET CARTRIDGE EXPANDER; AN XB PROGRAM "TINYGRAM" BY ED MACHONIS THAT ALLOWS THE USER TO PRINT CUSTOM DISK LABELS; REVIEWS OF "TRIAD", "SUPERBASIC" AND "PBX PROTOTYPE BOARD"; REVIEWS ON KEYBOARD OVERLAY, COMPUTER PHONEBOOK, ST. VALENTINE'S DAY CARD AND 1989 KB68 GIRLIE CALENDAR PROGRAMS BY VARIOUS AUTHORS. REVIEWS INCLUDED PRICES AND ADDRESSES; TWO SPEECH UTILITIES BY CIN-DAY MEMBER DON SANDAI; A FIFTEEN MINUTE BREAK WAS TAKEN FOR SELLING OF RAFFLE TICKETS. GIVEN AWAY THIS MONTH WERE 5 DISK MAILERS, A JANUARY '89 ISSUE OF MICROPENDIUM (DONATED BY JIM SUSCO), 50 TYVEK DISK SLEEVES, COMPUTE'S TI GAMES BOOK AND 3 TI-RIVERSIDE NEWSLETTERS; DEMONSTRATED AT THE MEETING WERE THIS MONTHS ADDITIONS TO OUR LIBRARY, DOM #20 / "BOARD GAMES 1" THAT INCLUDES MONOPOLY, CATHEY, PENTE AND MORE, FAREWARE #2 / "FUNNELWEB VERSION 4.13" IMPROVEMENTS TO AN ALREADY GREAT PROGRAM, FAREWARE #41 / "CARFAX ABBEY" A VERY FINE ADVENTURE GAME AND IUG #9 / "MAIL/LIST" BY H. ALLSTON, A HANDY BUT SOMEWHAT LIMITED PROGRAM. THE MEETING ADJOURNED AT 2:48 PM.

BYTEMONGER APRIL, 1986

- PROGRAM IMAGE FILES -

by Jerome Trinkl

Reprinted from HOCUS, February, 1986
Milwaukee Area 99/4 User Group

Program format is the most efficient way to store programs on disk as well as being the fastest way to load them. Any memory image, whether assembly or Basic can be saved in program format. Memory image is nothing more than an exact copy of the code as it resides in memory. (Ed. The two program format types use different distinguishing conventions.)

Assembly language programs that load and run from option 5 of the E/A use the following format:

Note: (These bytes are not loaded but are used to direct the loader.)

Example: 1st file 1st 6 bytes

BYTE	HEX VALUE	
0-1	FFFF	Header tells loader there is another file to load.
2-3	xxxx	No. of bytes Max. 2000 HEX (33 sectors maximum)
4-5	xxxx	Address to load those bytes

Note: (These bytes are loaded as part of the executable program.)

6-7	0460	B e
8-9	xxxx	Entry Address

Note: Succeeding files contain:
(Again these do not load in memory)

0-1	FFFF	if there are more files
	or 0000	if this is the last file
2-3	xxxx	No. of bytes max 2000 HEX
4-5	xxxx	Address to load those bytes.

The reason there is a maximum of 2000 HEX bytes (or 33 sectors on disk) per file is that TI's loader uses the 16K VOP memory to transfer the data during the Device Service Routine. Only 8192 (8K) bytes have been allocated for its buffer.

One final note of interest is that option 5 of the E/A allows a default filename of 'UTIL1' if enter is just pressed and no filename given. This is sort of like X-Basic autoloader 'LOAD' feature for assembly.

What about the Basic program format? It is a bit more complex but is easily distinguished on disk from assembly.

Program Load Bytes The first 8 bytes

BYTE	HEX VALUE	
0-1	xxxx	Exclusive Or of next two words 2-3 and 4-5
2-3	xxxx	Address of the end of the line number table.
4-5	xxxx	Address of the start of the line number table.
6-7	xxxx	Address of the last memory location used in the program. (Line number info - next 2 bytes)
8-9	xxxx	The last line number in the program.
10-11	xxxx	The start address of the program line.

Then comes the tokenized Basic code.

I hope this helps your understanding of the TI 99/4A program image format.



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TIPS FROM THE TIGERCUB

#35

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Tigercub Full Disk Collections, just \$12 postpaid! Each of these contains either 5 or 6 of my regular \$3 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 - my own programs on these disks are greatly discounted from their usual price, and the public domain is a FREE bonus!

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For descriptions of these send a dollar for my catalog!

The April Micropendium had a rather slow routine to count the number of words in a D/V text file. I think the following will be much faster. It ignores any lines beginning with a period (TI-Writer formatter commands), otherwise counts each cluster of characters followed by a space, plus the last cluster on the line.

```
10 !WORDCOUNT by Jim Peterson
100 DISPLAY AT(12,1)ERASE AL
L:"INPUT FILENAME? DSK" :: A
CCEPT AT(12,20):F0 :: OPEN #
1:"DSK"&F0,INPUT
110 A=1 :: LINPUT #1:M0 :: I
F ASC(M0)=46 THEN 130
```

```
120 X=POS(M0," ",A):: IF X=0
THEN 130 :: IF X=A THEN A=X
+1 :: GOTO 120 ELSE F=1 :: C
=C+1 :: A=X+1 :: GOTO 120
130 C=C+F :: F=0 :: IF EOF(1
)<>1 THEN 110 :: CLOSE #1 ::
DISPLAY AT(12,1)ERASE ALL:"
APPROXIMATELY "&STR$(C)&" WO
RDS"
```

Have you tried those black write-protect tabs, made of a material similar to electrical tape? They do not become dog-eared from bumping against the drive slot, and do not leave the disk sticky when you remove them.

100 !TIGERCUB GRAPHPRINT by Jim Peterson

```
110 !Will output to printer a line graph of 31 items of data, as for instance the temperature for each day of a month
120 !Values must be positive integers within a range of 75 from minimum to maximum
130 M0=RPT$(" ",65):: DIM T$(31),D0(75):: MN=10000
140 DISPLAY AT(12,1)ERASE ALL:"Input data - maximum 31":
"items. Enter to finish"
150 FOR I=1 TO 31 :: DISPLAY AT(14,1):X;TAB(4);CHR$(1):: ACCEPT AT(14,4):VALIDATE(DIGIT)SIZE(-5)BEEP:T0(X):: IF T0(X)=CHR$(1) THEN X=X-1 :: 60 TO 170
160 T=VAL(T0(X)): MX=MAX(MX,T):: MN=MIN(MN,T):: NEXT X
170 RN=MX-MN :: IF RN>75 THEN PRINT "EXCEEDS MAXIMUM RANGE OF 75" :: STOP
180 IF MX>75 THEN AD=MX-75
190 OPEN #1:"PIQ",VARIABLE 1 32 :: PRINT #1:CHR$(15);CHR$(27);CHR$(51);CHR$(12):: PRINT #1:RPT$(" ",132)
200 DISPLAY AT(12,1)ERASE ALL:"Wait, please...": ".....
.this takes time"
210 LN=LEN(STR$(MX)): FOR J=1 TO 75 :: J0=STR$(76+AD-J)
220 IF J>66+AD THEN J0=J0&" "
230 IF J/2=INT(J/2) THEN D0(J)=RPT$(" ",LN1)&SEG$(M0,1,132
```

```
-LN)ELSE D0(J)=J0&SEG$(M0,1,132-LN)
132-LN)
240 NEXT J :: PRINT #1:RPT$(" ",LN1)&SEG$(M0,1,132-LN)
250 J=1 :: T=VAL(T0(J))-AD :: T=76-T :: D0(T)=SEG$(D0(T),1,J+4)&CHR$(239)&SEG$(D0(T),J+4+6,255):: J=J+1
260 T2=T :: T=VAL(T0(J))-AD :: T=76-T :: FOR N=T2 TO T STEP (T2-T)+ABS(T)=T2:: D0(N)=SEG$(D0(N),1,J+4+2)&CHR$(253+(T<2))&SEG$(D0(N),J+4+4,255):: NEXT N
270 J=J+1 :: D0(T)=SEG$(D0(T),1,J+4)&CHR$(239)&SEG$(D0(T),J+4+2,255):: IF J<X THEN 260
280 FOR J=1 TO 75 :: PRINT #1:D0(J):: NEXT J :: PRINT #1
290 T=0 :: FOR J=1 TO 31 :: PRINT #1:TAB(T);STR$(J);: T=T+4 :: NEXT J
```

When you are analyzing an Extended Basic program, or modifying it, it is often easier to work with single-statement lines. This program will break all multi-statement lines into single-statement lines, except when they are followed by IF or ELSE. When you are finished modifying, a Compactor or Smash program can be used to compact it again.

```
100 !DECOMPACTER by Jim Peterson
110 DISPLAY AT(3,5)ERASE ALL:"TIGERCUB DECOMPACTER": "
Program must first be -": "
RES 100,100": "SAVE DSK(fil
ename),MERGE"
120 DISPLAY AT(12,1):"INPUT FILENAME?":"DSK" :: ACCEPT A
T(13,4):IF#
130 DISPLAY AT(12,1)ERASE ALL:"OUTPUT FILENAME?":"DSK" :: ACCEPT AT(13,4):OF#
140 OPEN #1:"DSK"&IF#,INPUT ,VARIABLE 163 :: OPEN #2:"DSK"&OF#,OUTPUT,VARIABLE 163 :: LN=100
150 LINPUT #1:M0 :: P=POS(M0,CHR$(130),3):: IF P#0 THEN PRINT #2:M0 :: GOTO 270
160 A0=SEG$(M0,1,P-1):: IF PDS(A0,CHR$(129),1)<>0 OR POS(A0,CHR$(132),1)<>0 THEN PRI
```

```

NT #2:MS :: GOTO 270
170 PRINT #2:AS&CHR$(8)
180 AN=LN+1 :: GOSUB 280
190 M#=SEG$(M#,P+1,253)
200 P=POS(M#,CHR$(138),1)
210 IF P=0 THEN PRINT #2:LN#&M# :: GOTO 270
220 AS=SEG$(M#,1,P-1)
230 IF POS(AS,CHR$(129),1)<>0 OR POS(AS,CHR$(132),1)<>0 THEN PRINT #2:LN#&M# :: GOTO 270
240 PRINT #2:LN#&AS&CHR$(8)
250 AN=AN+1 :: GOSUB 280
260 GOTO 190
270 LN=LN+100 :: IF EOF(1)<>1 THEN 150 ELSE CLOSE #1 :: CLOSE #2 :: END
280 LN#=CHR$(INT(AN/256))&CHR$(AN-256*INT(AN/256)) :: RETURN
    
```

I still think of the TI as a HOME computer, and I still think that the home computer is an invaluable educational tool - but I guess not many folks agree with me. I had thought of writing full disks of a progressive series of lessons on one subject, but my present two full disks of math education have sold a combined total of 7 copies in 7 months, so that would obviously be a waste of time.

I had written this next program for that purpose and I guess it's no use wasting it, so -

```

180 CALL CLEAR :: CALL TITLE
15,"TAKE AWAY":by Jim Peterson
110 DISPLAY AT(3,18):"COPYRIGHT: TAB(18):"TIGERCUB SOFTWARE":TAB(18):"FOR FREE":TAB(12):"DISTRIBUTION":TAB(11):"SALE PROHIBITED"
120 CALL PEEK(-28672,A0):: IF A0=0 THEN 150
130 DATA FINE,NO,GOOD,UHON,RIGHT,TRY AGAIN,YES,THAT IS NOT RIGHT
140 FOR J=1 TO 4 :: READ RIG
HT$(J),WRONG$(J):: NEXT J
150 FOR D=1 TO 1000 :: NEXT D :: CALL DELSPRITE(ALL)
160 CALL CLEAR :: CALL CHAR(95,"FFFF") :: CALL MAGNIFY(2)
    
```

```

11 RANDOMIZE :: CALL SCREEN(14):: FOR SET=5 TO 8 :: CALL COLOR(SET,16,1):: NEXT SET
170 CALL CHAR(128,"E700420018007E0000E7004200199423CE700420099423CE00E7004210003C4200")
180 CALL CHAR(124,"0E00040100700007000200000E1000")
190 DISPLAY AT(3,18):"TAKE A WAY" :: CALL CHAMELEON
200 CALL COLOR(14,2,2):: CALL HCHAR(4,4,143,2):: CALL HCHAR(5,4,143,2):: CALL SPRITE(825,128,11,25,25)
210 T=T+1 :: N=1-(T>5)-(T>15):: G=18-(T>5)*88-(T>15)*818 :: H=8-(T>5)*18-(T>15)*90
220 X=INT(6*RND+H):: Y=INT(6*RND+H):: IF Y>X THEN TT=X :: X=Y :: Y=TT
230 IF X=X2 OR Y=Y2 THEN 220 :: X2=X :: Y2=Y :: Z=X-Y
240 GOSUB 250 :: GOTO 210
250 GOSUB 260 :: GOSUB 280 :: GOSUB 310 :: FOR D=1 TO 28 :: NEXT D :: CALL DELSPRITE(ALL):: DISPLAY AT(10,1):: CALL CHAMELEON :: CALL SPRITE(825,128,11,25,25):: RETURN
260 FOR J=1 TO LEN(STR$(X)) :: A(J)=VAL(SEG$(STR$(X),J,1)) :: NEXT J :: FOR J=1 TO LEN(STR$(Y)) :: B(J)=VAL(SEG$(STR$(Y),J,1)) :: NEXT J
270 FOR J=1 TO LEN(STR$(Z)) :: C(J)=VAL(SEG$(STR$(Z),J,1)) :: NEXT J :: M=LEN(STR$(Z))-LEN(STR$(X)) :: RETURN
280 R=96 :: CC=96 :: FOR J=1 TO N :: CALL SPRITE(8J,48+A(J),11,R,CC):: CC=CC+16 :: NEXT J
290 R=116 :: CC=96 :: FOR J=1 TO N :: CALL SPRITE(84+J,48+B(J),11,R,CC):: CC=CC+16 :: NEXT J
300 CALL HCHAR(10,12,95,M*3) :: CC=CC-16 :: RETURN
310 R=148 :: FOR J=LEN(STR$(Z)) TO 1 STEP -1 :: IF LEN(STR$(X))=1 THEN M=CC :: GOTO 330
320 FOR M=CC TO CC+8 :: CALL LOCATE(8J-M,96,M,8J+4-M,116,M):: NEXT M
330 IF A(J-W)=B(J-W) THEN 360 :: CALL SPRITE(828,49,16,96,M-9)
340 IF F3=1 THEN 360 :: F1=1
    
```

```

:: A(J-W-1)=A(J-W-1)-1 :: F A(J-W-1)<0 THEN A(J-W-1)=9 :: F2=1 :: A(J-W-2)=A(J-W-2)-1
350 CALL SPRITE(822,48+A(J-W-1),16,88,M-24):: IF F2=1 THEN CALL SPRITE(821,48+A(J-W-2),16,88,M-40)
360 CALL SPRITE(827,45,16,116,M-12)
370 CALL SPRITE(828,63,11,R,M)
380 CALL KEY(3,K,ST):: IF ST<1 OR K<48 OR K>57 THEN CALL PATTERN(828,32):: CALL PATTERN(828,63):: GOTO 380
390 CALL DELSPRITE(828,828):: CALL SPRITE(812+J,K,11,R,M)
400 IF K=48<>C(J) THEN GOSUB 450 :: CALL DELSPRITE(812+J) :: F3=1 :: GOTO 330
410 CALL DELSPRITE(827):: IF F1=1 THEN 420 ELSE IF F2=1 THEN 430 ELSE 440
420 F1=8 :: CALL DELSPRITE(8J-W-1):: FOR P=80 TO 96 :: CALL LOCATE(822,P,M-24):: NEXT P :: CALL SPRITE(8J-W-1,48+A(J-W-1),16,96,M-24):: CALL DELSPRITE(822):: GOTO 440
430 F2=8 :: CALL DELSPRITE(8J-1-W):: FOR P=80 TO 96 :: CALL LOCATE(821,P,M-24):: NEXT P :: CALL SPRITE(8J-1-W,48+A(J-1-W),16,96,M-24):: CALL DELSPRITE(821)
440 CC=CC-16 :: NEXT J :: GOSUB 480 :: F3=0 :: RETURN
450 DATA 123,124,125,123,124,125,123,120
460 IF A0=0 THEN 470 :: CALL SAY(WRONG$(INT(RND*4+1)))
470 RESTORE 450 :: FOR JJ=1 TO 8 :: READ P :: CALL PATTERNRN(825,P):: IX=2^250 :: NEXT JJ :: RETURN
480 DATA 121,122,121,122,121,122,121,122
490 IF A0=0 THEN 500 :: CALL SAY(RIGHT$(INT(4*RND+1)))
500 RESTORE 480 :: FOR JJ=1 TO 6 :: READ P :: CALL PATTERNRN(825,P):: IX=2^250 :: NEXT JJ :: RETURN
510 SUB CHAMELEON
520 M#="100066SAC342DB667E10810099SAC3A5E70142DB240B668081429924007E5AC3A53C241000FF0B5AFF7EFFF099100100660010"
    
```

```

530 RANDOMIZE :: CALL CHAR(128,SEG$(M#,INT(43*RND+1)*82-1,16)) :: X=INT(14*RND+3)
540 Y=INT(14*RND+3):: IF Y=X THEN 540 :: CALL COLOR(13,X,Y)
550 CALL HCHAR(1,2,128,38):: CALL HCHAR(24,2,128,38):: CALL VCHAR(1,31,128,96):: SUB END
560 SUB TITLE(S,T6)
570 CALL SCREEN(S):: L=LEN(T6):: CALL MAGNIFY(2)
580 FOR J=1 TO L :: CALL SPRITE(8J,ASC(SEG$(T6,J,1)),J+1-(J+1=5)+(J+1=5+13)+(J>14)*1,3,J*(170/L),18+J*(200/L)) :: NEXT J
590 SUBEND
    
```

When you give your printer instructions, it remembers them until you turn it off. That is why you may find that your letter to Aunt Sally is being printed in double width underlined italics. The solution is found in another gobbledegook paragraph in the Gemini manual - "when (ESC "0") is sent to the printer, the conditions of the printer are initialized."

In plain English, OPEN #1:"PIO" :: PRINT #1:CHR\$(27);"0" in your program or CTRL U, FCTN R, CTRL U, SHIFT 2 at the beginning of your TI-Writer text will cancel out any special orders the printer is still remembering and return it to its default conditions.

Here's a bright idea by Scott King in the AVTI U6 newsletter. When you load a program in order to modify it, put a reminder of its filename in the first line, such as ! SAVE DSKI.NAME. Then, when you are ready to save it, just list line 1, FCTN 8, use the space bar to erase the !, and Enter.

MEMORY FULL!

Jim Peterson

(Part 3 of 3)

ASCII d hex	CHAR	+ BASIC BIAS	E/A PATTERN LOCATION	BASIC/XB PATTERN LOCATION	E/A COLOR LOCATION	BASIC COLOR LOCATION	X-BASIC COLOR LOCATION
184 >B8	F/,		>ODCO		>0396		
185 >B9	F/.		>ODCB				
186 >BA	F/-		>ODDO				
187 >BB	C/-		>ODDB				
188 >BC	F/O		>ODEO				
189 >BD	F/;		>ODEB				
190 >BE	F/B		>ODFO				
191 >BF	F/H		>ODFB		---		
192 >C0	F/J		>OE00		>0397		
193 >C1	F/K		>OE0B				
194 >C2	F/L		>OE10				
195 >C3	F/M		>OE1B				
196 >C4	F/N		>OE20				
197 >C5	F/Q		>032B				
198 >C6	F/Y		>OE30				
199 >C7			>OE3B		---		
200 >C8			>OE40		>0398		
201 >C9			>OE4B				
202 >CA			>OE50				
203 >CB			>OE5B				
204 >CC			>OE60				
205 >CD			>OE6B				
206 >CE			>OE70				
207 >CF			>OE7B		---		
208 >D0			>OE80		>0399		
209 >D1			>OE8B				
210 >D2			>OE90				
211 >D3			>OE9B				
212 >D4			>OEAO				
213 >D5			>OEAB				
214 >D6			>OEB0				
215 >D7			>OEBB		---		
216 >D8			>OECO		>039A		
217 >D9			>OECB				
218 >DA			>OEDO				
219 >DB			>OEDB				
220 >DC			>OEE0				
221 >DD			>OEEB				
222 >DE			>OEF0				
223 >DF			>OEFB		---		
224 >E0			>OF00		>039B		
225 >E1			>OF0B				
226 >E2			>OF10				
227 >E3			>OF1B				
228 >E4			>OF20				
229 >E5			>OF2B				
230 >E6			>OF30				
231 >E7			>OF3B		---		

ASCII d hex	CHAR	+ BASIC BIAS	E/A PATTERN LOCATION	BASIC/XB PATTERN LOCATION	E/A COLOR LOCATION	BASIC COLOR LOCATION	X-BASIC COLOR LOCATION
232	>E8		>OF40		>039C		
233	>E9		>OF48				
234	>EA		>OF50				
235	>EB		>OF58				
236	>EC		>OF60				
237	>ED		>OF68				
238	>EE		>OF70				
239	>EF		>OF78		---		
240	>F0		>OF80		>039D		
241	>F1		>OF88				
242	>F2		>OF90				
243	>F3		>OF98				
244	>F4		>OFA0				
245	>F5		>OFAB				
246	>F6		>OFB0				
247	>F7		>OFB8		---		
248	>FB		>OFC0		>039E		
249	>F9		>OFC8				
250	>FA		>OFD0				
251	>FB		>OFD8				
252	>FC		>OFE0				
253	>FD		>OFE8				
254	>FE		>OFF0				
255	>FF		>OFF8		---		

E/A SCREEN POSITIONS

	COLOR	BASIC	d hex E/A
00	TRANSPT	1	0 >0
32	BLACK	2	1 >1
64	MED GRN	3	2 >2
96	LT GRN	4	3 >3
128	DRK BLU	5	4 >4
160	LT BLU	6	5 >5
192	DRK RED	7	6 >6
224	CYAN	8	7 >7
256	MED RED	9	8 >8
288	LT RED	10	9 >9
320	DRK YEL	11	10 >A
352	LT YEL	12	11 >B
384	DRK GRN	13	12 >C
417	MAGENTA	14	13 >D
448	GRAY	15	14 >E
480	WHITE	16	15 >F
512			
544			
576			
608			
640			
672			
704			
736			
767			

BETTER THAN CHICAGO!

MAYBE... COME AND SEE FOR YOURSELF.

MULTI USER GROUP CONFERENCE UPDATE:
Saturday May 20, 1989
Lima Ohio Campus, Ohio State University

The following organizations and individuals have conferred with us their plans to attend our Conference and have available materials relating to the T.I. 99/4a and the Geneve computers. Setup time starts at 8AM. Scheduled events run from 9AM to 5PM. As Conference time approaches we expect additions to this list.

TABLES IN THE EXHIBIT HALL:

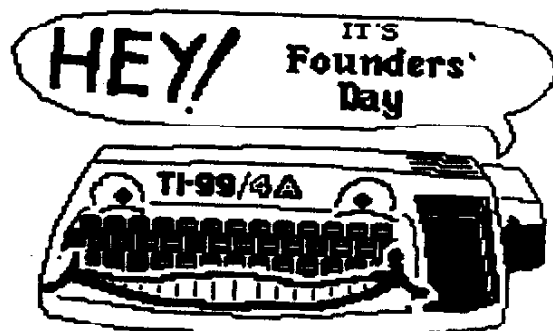
- Lima Ohio User Group; We will offer free copies of anything in our library to a designated representative of ANY user group attending, even representatives of groups that do not schedule exhibit space. User groups we know will be attending will receive a library listing in the mail prior to the conference. Our listing will also be posted at the conference. This offer is not made to individuals, who can gain access to our library by joining the Lima UG.
- *CIN DAY USER GROUP: Cincinnati and Dayton Ohio areas
- GREAT LAKES USER GROUP: Detroit area
- BUD MILLS SERVICES: sales of Horizon Harddisks and P-gram cards.
- ST. LOUIS 99ERS: St. Louis MO area, sales of SUPER BASIC
- TIGERCUBE SOFTWARE (Jia Peterson): Sales of original software, plus many VERY inexpensive disks full of public domain software.
- C.O.N.N.I. the Columbus Ohio user group.
- COMPUSERVE (Jia Horn, TI sysop): signing people up for this national information service.
- GENIAL COMPUTERWARE: software sales. Barry Traver, the well known TI columnist for Computer Shopper, will represent Genial at our conference.
- ASGARD SOFTWARE (Chris Bobbitt); software sales. Chris told us recently that PRESS may be ready in time for our conference (or sooner). We sure hope so!!
- CLEVELAND AREA USER GROUPS, Cleveland Ohio area. Among other things they will have TI BASE for sale.
- OH RI TI USER GROUP, Toledo OH and southeastern Michigan areas.
- L.L. CONNER ENTERPRISES (Larry Conner), hardware and software sales. This well known dealer often advertises in Computer Shopper and is the exclusive dealer for Turbo Pascal 99.
- P&A SOFTWARE (Paul Scheide mantle), software sales including a probable new release relating to computer graphics and art.
- THE FORT'S USER GROUP, Fort Wayne IN area.

DEMONSTRATIONS IN THE CONFERENCE ROOMS (Note: These demonstrations will be videotaped and made available to any user group for the cost of a blank tape and postage):

- Paul Scheide mantle, HOW TO CONVERT FROM ONE "ARTIST" FORMAT TO ANOTHER.
- Bud Mills, THE LATEST ABOUT HORIZON HARDDISKS AND THE P-GRAM CARD.
- Steve Karasek, SUPER BASIC v2. This demo, originally scheduled to be given by Harold Hoyt, will now be given by the software author himself. See the SUPER BASIC review in the Feb 89 issue of Micropendium. Version 2 will be officially released at the conference.
- Irwin Mott, HOW THE BLIND USE SPEECH.
- Barry Traver, RECENT SOFTWARE FROM GENIAL COMPUTERWARE
- Barry Traver (his second presentation), LINKING IB TO ASSEMBLY LANGUAGE VIA "CALL LINK".
- Chris Bobbitt, THE LATEST RELEASES FROM ASGARD SOFTWARE.
- Martin Smoley, TI BASE TUTORIAL.

There are still time slots available for more demos and space in the exhibit room for more tables. Any individual, user group, or dealer who wishes to schedule a demonstration or reserve table space may do so. There is no cost for anything. This event is totally free. For more information write us at P.O. Box 647, Venedocai OH 45894, or call Dave Szicol evenings at 419-228-7109.

DONE



COMING IN MAY!
Happy 8th Birthday

CIN-DAY USER GROUP

SPECIAL COMBINED MEETING!
MIDDLETOWN, OHIO

DON'T MISS EITHER EVENT!!!

QB Monitor (Oct 87)

STYLE A LINE

A TINYGRAM

by Ed Machonis

TINYGRAM: A short program which can be typed in its entirety on one screen without any program lines scrolling off the screen. (REM statements can scroll off.) Popularized, I believe, by Mike Stanfill of the Dallas TI Home Computer Group.

First of all let me make clear that this is not a novelty program. It is a work horse, provided you have the work for it. What kind of work? Do you ever have to print just a line or two, such as a page header, an article or picture title, a title for a data base printout, a credit line for a reprinted newsletter article, etc., etc. Further, would you like to print this in an Expanded Compressed Italicized Double Strike Underlined type style? Yes all the same time! If so, this program is for you.

What no printer? I will try to have something for you next month. (A TINYGRAM - NOT a printer!)

Many of you are familiar with my 10 Line basic programs, PRINTSTYLE and PRINTALINE. (Both TINYGRAMS, written before I knew the name existed.) I often use both of them in titling data base printouts or copy for the Newsletter but it got to be a pain to change between the two every time I wanted to change a type style. Finally the light dawned! Why not marry the two?

STYLE A LINE is the result of that marriage. One major revision was to change an INPUT statement in PRINTALINE to a LINPUT. No more need to enclose in quotes any text lines containing commas or leading spaces

Using LINPUT required that the program run in extended basic. After some streamlining by deletion of unneeded features from PRINTALINE and the consolidation of statements into multi-statement lines, we wound up with 9 lines of code. (After merging TWO TEN Line programs. The power of extended basic!)

Don't let its brevity fool you. You can select any of the 128 type styles available on the Epson RX-80 and many compatibles. With line spacing and margin variations, over 2000 different selections can be had. (Half line spacing and condensed superscript will let you tack on several lines of comment onto a photocopied article.)

Although there are better ways of doing it, you can even produce a right margin justified letter. (THIS is

novelty!) Using Emphasized Pica, set Left Margin at 13, and enter text. Two screen lines will print text 54 characters wide (LINPUT uses two character spaces.) Justify text by inserting spaces between words so that second line ends at screen edge. But it will NEVER replace TI-Writer!

Using the program is very easy. When RUN, a menu is displayed for programming the printer. It is always best to select "1" to clear the printer. If your printer doesn't support a master reset code, turn it off then on to clear it. Combine styles by successive selections. Select Option 10 to input text.

If you wish to change the type style, or do repeated printings of the same text, typing "ZZZ" or "zzz" will return you to the menu. Option 9 will do repeat printing of the same text and styles can be changed as required. To input new text, select Option 10 again. When in text mode, pressing ENTER with no text input will print a blank line.

Watch those commas in Line 10. The next to last data item is a lower case "L", not the figure 1.

BRAIN TEASER: Where is the data to set the left margin at column 13?

```
1 : *** STYLE A LINE ***
  a TINYGRAM by Ed Machonis
    QB-99ers, Bayside, NY

2 DIM P$(13):: FOR I=1 TO 13
  :: READ P$(I):: NEXT I

3 OPEN #1:"PIO",VARIABLE 132

4 CALL CLEAR :: PRINT "1 PIC
A/RESET", "9 PRINT TEXT", "2
ELITE", "10 INPUT TEXT", "3 EX
PANDED", "11 SUPERSCRIP", "4
COMPRESSED", "12 SUBSCRIPT"

5 INPUT "5 EMPHASIZED 13 1/
2 LINE GP6 ITALIC 14 L
MARGIN 137 D'BLE STRIK 15 R
MARGIN 678 UNDERLINE ?":I

6 P$(9)=" %&TEX% :: PRINT #1
:CHR$(27)&P$(I):: IF I=4 THE
N PRINT #1:CHR$(27)&CHR$(15)

7 IF I<>10 THEN 4

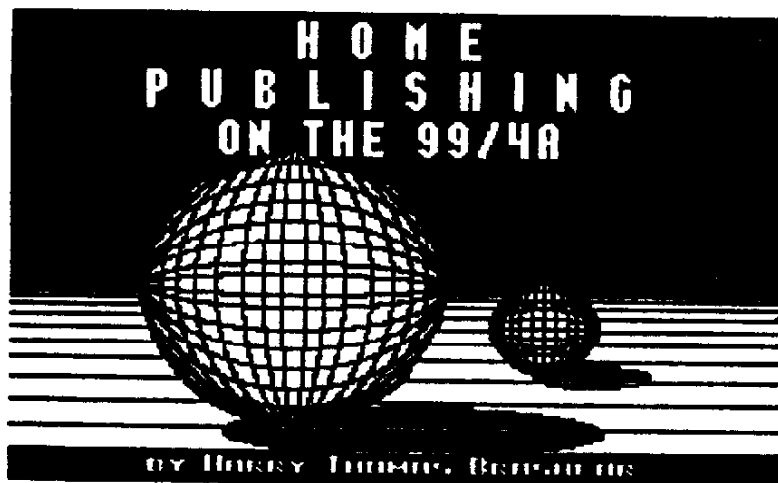
8 PRINT "INPUT TEXT OR 'ZZZ
FOR MENU" :: LINPUT TRY$

9 IF TRY$="ZZZ" OR TRY$="zzz
" THEN 4 ELSE TEX$=TRY$ :: P
RINT #1:TEX$ :: GOTO 8

10 DATA @,H,W1,,E,4,G,-1,,,S
0,S1,1,1,OC
```

the 2nd word in the 2nd line originally read "listed". Using STYLE A LINE, the printed article was corrected to read "typed".

WONDERING WHAT TO DO WITH YOUR COMPUTER?? Think about....



HOME PUBLISHING ON THE TISS/4A MAY PROVIDE THE ANSWER TO YOUR QUESTION. THIS MANUAL SHOWS YOU HOW TO TURN THE COMPUTER INTO A HOME PRINTSHOP, FOR FLYERS, NEWSLETTERS, PAMPHLETS, LABELS AND BANNERS. EIGHTY PAGES LONG, THE MANUAL WILL EXPLAIN THE MANY GRAPHIC PROGRAMS AVAILABLE --- WHAT THEIR STRENGTHS ARE AND HOW THEY RELATE TO EACH OTHER. IT'S FULL OF DETAILED INFORMATION ON HOW TO PUT THEM TOGETHER TO WORK FOR YOU AND HOW TO MAKE WHATEVER YOU ARE PRODUCING LOOK ITS BEST.

THIS PAGE BY PICASSO PUBLISHER

BUT IT DOESN'T STOP THERE. YOU WILL ALSO GET PROGRAMS THAT INCLUDE AN ARTWORK PRINTER THAT PRINTS COMPLETELY FREE OF THOSE ANNOYING LITTLE WHITE LINES, A PROGRAM TO ORGANIZE YOUR FONTS, AND THE WORLDS EASIEST COLUMNIZER. AND JUST SO YOUR MANUAL WILL ALWAYS BE UP TO DATE ON THE LATEST TIPS, TRICKS AND SOFTWARE, YOU WILL ALSO RECEIVE TWO FREE UPDATES TO THE MANUAL ABOUT FOUR MONTHS APART.

THE TOTAL COST FOR THE COMPLETE PACKAGE WILL BE \$15.00 AND INCLUDES ALL POSTAGE AND HANDLING. GROUP RATES FOR TEN OR MORE COPIES WILL BE \$12.50 EACH INCLUDING POSTAGE.

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* * * * THANK YOU FOR YOUR SUPPORT OF OUR GROUP. * * * *

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PLEASE SHIP TO: NAME _____ AMOUNT
 ADDRESS _____ ENCLOSED
 CITY, ST _____
 ZIP _____ \$
 GROUP NAME _____

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For additional information, contact: Rick Kellogg - Group Contact (513) 773-5941

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ADDRESS CORRECTION REQUESTED

THIS MONTH'S DAYTON MEETING: April 15th, 1989 at 12:15 PM
Coin Room, 5th floor, Downtown Lazarus.
NEXT MONTH'S DAYTON MEETING: May 13th, 1989 at 12:15 PM
Tentative: Miami University, Middletown Branch.

THIS MONTH'S CINCINNATI MEETING: April 15th, 1989 at 12:00 Noon
Campbell County Library, Kentucky.
NEXT MONTH'S CINCINNATI MEETING: May 13th, 1989 at 12:00 Noon
Tentative: Miami University, Middletown Branch.

Attn: Greg Justice, Editor
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P.O. Box 29863
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75229

