081 8704 WestPenn



WEST PENN 99 ER'S

ISSUE #4 APRIL 1987

FOR THE RECORD

by Ed Bittner Recording Secretary

Pressure always builds at the end of the month ! Checkbook pressure, water pressure, and newsletter editor pressure, (gas pressure). Its March 31, (2 to 4 inches of snow outside) but the warmth of the March meeting of the West Penn 99ers lingers. With little on the agenda, its hard to believe that we filled almost four hours full of stuff.

Scott started with the ammendment on the dissolution of club property which will be voted on next time (be there !). He also indicated that the club will no longer purchase data cases but will continue its diskette sales. With no library report, Scott announced classes in assembler (Gene Kelly) and TI Writer (S. Katzman).

John Willforth briefly discussed the Rave Keyboard with himself, (10 minutes, thats short for John), and offered an explanation of his alpha lock jumper which makes the joystick operation independent of the alpha lock key position. He also talked on a printer spooler buffer which allowed his printer to print while he and his TI did other things (talk?). The particular system comes from J. Green, in Kit form, with a 64K spooler and a Parallel to Serial and vice-versa capability. See John. Several pass-out sheets on relational operators, sprite design, and a members list were made available. John also brought some 30 cent, 15 minute casse te tapes and some Atari joystick replacement centers (\$ 1.00). See John.

Other items of interest included a "Diskscriber Marker",(\$4-6), for writing directly on diskettes, micropendiums for sale, how to re-ink ribbons (WD-40 style) and some bodys' desire to outscore everybody? The tape got real fuzzy here. Scott informed us of the usefullness he has found in "free" trade magazines, for example he found a \$39.00 modem if you already have an RS232 interface. Scott demoed a record Keeping program called Record Plus for \$5,\$10,\$15,or \$20 depending on what extras you wanted.

How can I say this nicely ! John Willforth <u>prepared</u> for the March meeting. He demonstated a nice sound effects program, a number base converter, an "April Fool" character dropout program (very nice delivery) and an exceptional Fairware program called STAR. The STAR program has about 50 CALL LINKs (assembly subroutines) which greatly enhance XBasic programming. If the April meeting goes half as well it will be well worth the trip. Be There !

Pressuringly,

Scoops Bittner

PS. I will continue to bring the NEWSLETTER library. This library is a collection of newsletters from around the country, exclusively from TI users groups. These newsletters are available to you <u>the club member</u> to borrow, copy, and return at the next meeting. There is <u>LOTS</u> of good information in them. See me at the APRIL meeting. Its easy to borrow them.

ARMADILLO BYTES P.O. Box 900921 DALLAS , ΤX 75218 (214) 328-9257

			1			
						Richard
3/17	Cash on hand	\$ 80.00	3/17	Balance	\$ 776.99	have ma
	8 lib. disks	16.00	ł	postage	- 63.17	for the
	disk sales	273.10	ł			Tors or
	2 data cases	14.00	1		713.82	nere ar
	6 memberships	85.00		Clyde's		TI 99
		<u>.</u>			-35 00	DSDD
	Clyde's checks	35.00	1	TOAGE MONEY		cahle
	micropendium	+13.00			678.82	
	•		1			T1 32
		547.10	1 3/18	micropendium	- 9.00	TI RS
	cost of screws	- B.OO	1			
			ł		6 69.82	D Cod
		539.10	ł	dis¦ labels	-23.32	P-Cod
	raffle items	-10.00	1			, ,,,,,
			1		646.50	TT PE
-		529.10	3/27	DEFOSIT	+480.00	TTDE
3/27	BANK DEPUSIT	-480.00		L N L		II FE
	ench on hand	48.10	i •	palance	⊅ 1126,3V	TI Sp
	cash un hand	47.10	1			TI Ex
			1			

BANK BALANCE

TOTAL ASSETS \$1175.60

MARCH TREASURER'S REPORT

We also collected \$24 in our "Goodie fund". Add that to the \$12 left from last time (I bought some supplies) makes \$36! To make things more fair and easier to handle. I decided to combine the Pop and Goodie fund -- that way all the refreshments should pay for themselves and our regular accounts will be just for "business". As you can see, we are prospering in every way - thanks to the

generosity and helpfulness of our members. Special thanks again to an extra helpful member - MICKEY - for designing a "Club Transactions Record" form for us to use. I don't know what I'd do without you Mickey -- you sure made the record keeping alot easier! Till next time

Jan Trayers, Treasurer

CASH BALANCE

100 ! CONVERT ANY NUMBER FH™" "D ANY BASE BETWEEN 2 AND "J. 110 CALL LLHR :: A\$="012345 6789ABCDEFGHIJKLIMNOPORSTUWX Y7" 1. INPUT "N ****?? *:B\$:: I NPUT *F*** F432 *:A :: INPU T ': F432 *:B :: C=0 :: D= T 1:0-10 :: D:: C=C+(POS 130 FOF F=1 TO D :: C=C+(POS (A&,SC:* 2\$,E,1),1)-1)*A^(D= E):: AL: E :: B*="" 140 F=1:(C/B):: B*=SE6* -*. C=B#F+1,1)&B* :: IF F=0 -4. 15. J=F :: (+ "L 140 16 PRINT "HE ANSWER IS ";B 10 FD101 51: 170 7:54 - AT(12,1): ANOTHE P FIN: A 12: AT(12,2)BEEP VAL 10 12(NA : ANOS 10 12(NA : ANOS 10 12 (NA : ANO

The above program is SHORTEST, MOSTEST any thing I can think of for a program to convert number of one base to another base.

I regret that I can not find the name of the author, who does certainly deserve the credit. Remove all REM statements to see just how short it is! JFW of WP99ERS **APRIL 1987**

SCORE & COMMENTS # ROME DATE NONE ********************* BURGERTINE 82600 # PATTERN 21 # 9-04-85 HICKEY SCHNITT 1000000 # PAT EA P9 # INEVER AND DUTE DF INTER # BURGER BUILDER FI FANOR 71C CENTIPEDE 301930 1-08-87 MICKEY SCHMITT FRANK ZIC DIG DUG 262460 DIG DUG 216740 ELEANOR ZIC ELEANOR ZIC HUSTLE MON 52 LOST 27 TIED DINCE PATTERN 21 JUMPY 131900 # ELEANOR ZIC MICRO PINBALL **B420**00 MIKE SEALY MIDNITE MASON 21860 FRANY ZIC MIDNITE MASON 17790 FLEANOR ZIC MOON PATROL MIKE SEALY 73150 LEVEL K CHAMPIONSHIP LEVEL 5 NICKEY SCHNITT HUNCHHAN 17160 3-14-87 PARSEC 22500 LEVEL 2 3-10-87 MIDKEY SCHMITT TI INVADERS 5376 ATT VE 3-13-87 MICKEY SCHMITT

HIGH-SCORING GAMES

IN 1997 TAND ENTHUL 1-64 SOME IN .-- .YING

-2-

and Annie Fleetwood ny items New and Used T.I. Computer user. e just a few: /8 w/Hexbus Disk Cont. 1/2 height, manuals & s....\$750. K cards..... 85. 232 cards.... 85. sk Controllers 90. e card/switch 125. ''''no switch 115. B/CABLE..... 130. B(no cable).. 100. eech Syn. ... 30. t. Disk/PS... 75. PERCOM(new)..... 140. PERCOM(used no cab)100. TI Standalone D.Control 90. TI Standalone Mem. 90. TI Video Modulator 10. SOFTWARE..... Many new and used XBASIC ... § 30. TI Writer. \$ 20. Multiplan..\$ 25. plus many others.

DON'T MISS THE OPPORTUNITY TO GET A PERCOM DISK UNIT COMPLETING THE SYSTEM YOU ALWAYS WANTED TO BUILD !

HARDWARE SIG FORMING NATIONALLY (INTERNATIONALLY).

Mr. TONY (BOB) WAGNOR of MINOT, N. Dakota, if really in hot pursuit of trying to achieve what no one has yet done and that is to form a COMPLETE national hardware S.I.G.. If you are interested, send a letter to Tony, stating what your interests and qualifications are, and what you want to see in the group. (SASE please). You may also call after 5:30 PM Central Time. 701 727-9081. addr; Tony Wagnor

> 114-2 Sherwood Cir. Minot AFB, ND

SOFTWARE 58704 * Those with V Vinterest are

also needed to support the hardware.

T. I. Writer (Part 9) Stan Katzman

This time I wish to discuss the "dot" commands. These commands format the text in the text formatter. They are entered in the document, and for the sake of brevity, occupy a line of their own. The commands I want to discuss are for setting margins, right adjust, indenting the beginning of a paragraph and centering text headings. All dot commands and text formatting commands (even those discussed last time) do not show up in the final document when put through the text formatter.

All dot cammands must start with a period and end with a carriage return symbol.

To set the left margin, at the head of your document type .LM 15 followed immediately by a carriage return. To set the right margin type .RM 70 followed by a carriage return. This sets the left margin at 15 and the right margin at 70. Then type .FI carriage return. The .FI (fill command) says to fill the line with as much text as possible between the margins. You must have the .FI command in to have the margin commands effective.

If you want to indent a paragraph, type . IN +5 and this will indent the start of a paragrpah five spaces. The indent command must follow the margin settings.

To center a line of text, type .CE (carriage return) before the line of text to be centered. If you want two lines of text centered type .CE 2 (carriage return).

In order to right adjust your margin type .AD (carriage return). In order to right adjust you must also have the .FI command on also.

Now I realize this might be a bit abstract so I have provided some copy that I used in my work in order to illustrate these commands. At the top of page 2 will see the dot commands at the top. On the screen the carriage return symbols show but they do not show on the printed copy. The centering command works only for the line designated while the margin, and adjust commands work until turned off. (To turn off the right adjust enter a .NF command on the area where you do not want the margin right adjusted.) To change margins just type the appropriate changes on a separate line of the text using the numbers for the margins that you want.

Page 3 shows the final copy after being put through the text formatter.

We had representatives at the recent "FAYEH" in New England, more specifically BOSTON, MA. Scott took the motor HOME, (motor is lower case because it did not play as big a part in their getting there as they had hoped), and will have more to tell you at the meeting. I don't want to steal the thunder of the great PO-BA. He brought back many gifts for all of us, and if you would like to GET YOURS, please come to the APRIL MEETING SINGLE CHIP 32K MEMORY EXPANSION By Joe Spiegel of the Airport Area Computer Club

Joe is still doing it. He has decoded around the ROM in the console using diodes in order to make the use of the new 32K BYTE (single) Chip, the 62256 He has also designed a single sided board that can be etched by you, in order to build this project.

Joe will either send you an etched board for \$3.00 (unbelievable), or a complete unit ready to solder (4 wires to the U504 chip in your console), for and get this, \$25.00. Hey Joe! Your ruining the neighborhood. You know that for him to do it at these prices, Joe is " doing it for YOU ". He will need your old GROM connector back after you install the unit he builds for you.

Joe, does your wife know that the family will not see you for the next two years. Send inquiries to the : AIRPORT AREA COMPUTER CLUB

OR CALL JOE AT: 412 457-8284

% JOE SPIEGEL P.O. BOX 710 CORAOPOLIS, PA 15108



SINGLE RAM CHIP 32K Expansion

Notes:

All resistors - 1K All diodes - 1N914 or 1N34 Transistor - 2N2222 or 2N3904 Capacitor - 22 mfd Tantalum

All pin numbers refer to connections on the GROM port except the four lines going to U504 on the motherboard.

The transistor and its base and collector resistors may be omitted if DBIN is obtained from U508, pin 9, on the motherboard.



┊╪╪╬╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪ ****** ╡╅╅╡╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪╪ ***** 2 !

SHORTCUT METHOD OF ENTERING STATEMENTS IN EXTENDED BASIC

Within the last three years, I've seen the subject of TOKENIZED statements mentioned perhaps three times. No one had done anything until now to develop this "unintentional" feature in the T.I. 99/4A. Bob put a lot of work into this program. Recommended 32K. See note on below chart for entering lines 59 and 60. ENJOY! APRIL WP99

3	! WRITTEN BY BOF TRAUTMANN	
	224 MCKINLEY AVE. PITTSBURGH PA 15	202
A	PHONE (412) 761-9	380 380

***** ***** ***** 5 CALL CLEAR :: DISPLAY AT(7,6):"ONE MOMENT PLEASE" 6 DIM_CODE\$(45),DR(45,,DC(45))

),LC(45),CT(45)

7 CALL CHAR (96, "FF8080808080 8080FF0000000000000FF000000

000000FFFF0101010101010101") 8 CALL CHAR(100, "80808080808 08080000003070F1F3F3F3F5FFFF 9 CALL CHAR (104, "0000COEOFOF BFCFC01010101010101017F7FFFF 10 CALL CHAR (108, "8181818181 8:=:31FFFFFFFFFFFFF7F7F7FFFFFF F0E0C000008080808080808080FF") 12 CALL CHAR (116, "0000000000 0000FF01010101010101FF000000 0000000000FFFFFFFFFFFFFFFF 13 CALL CHAR(34, "00000003070 F1F1F003FFFFFFFFFF", 36, "B 080B7A2A2A2B2800000745474645 60000006E446446400",42,"3F3 F7F7F7F7F7F7F

14 CALL CHAR(45, "00FCFFFFFF FFFFF",60, "000000000000F0F8F8" ,64, "FCFCFEFEFEFEFEFEFE",91, "7 F7F7F7F7F7F3F3F3F",92, "1F1F0F0 703000000")

15 CALL CHAR(93, "FFFFFFFFFFF F3F00", 94, "FEFEFEFEFEFEFEFCC", 121, "FFFFFFFFFFFFFFC00", 122,

"F8F8F0E0C0000000") 16 CALL CHAR(123, "FFFFFFFFFF FFFFFF")

FFFFFF") 17 CALL CHAR(125, "707070") 18 CALL SPRITE(#4,34,1,9,65, #5,35,1,9,73,#6,42,1,17,±",# 7,45,1,9,177,#8,60,1,9,185,# 9,64,1,17,185) 19 CALL SPRITE(#10,91,1,89,6 5,#11,92,1,97,65,#12,93,1,97 ,73,#13,94,1,89,185,#14,121, 1,97,177)

20 CALL SPRITE (#15, 122, 1, 97, 185)

21 FOR S=9 TO 11 :: CALL COL OR(S.2,15):: NEXT S

22 FEETORE 26 23 FDF Y=0 TD 44 :: READ COD

25 NEXT Y

•		_	SHORTCUT	CODI	ES		
: .]	ON!	8	OPTION	G	GOSUB	Q	UNTRACE
:71	AND	9	OPEN	H	RETURN	R	INPUT
: 0	THEN	;	PRINT	I	DEF	S	DATA
: 1	TO	=	CALL	J	DIM	Т	RESTORE
: 2	STEP	A	ELSE	K	END	U	RANDOMIZE
: 3	3	В	::	L	FOR	V	NEXT
: 4	;	С	!	М	LET	W	READ
: 5	:	D	IF	N	BREAK	X	STOP
: 6)	Е	GO	0	U ZAK	Y	DELETE
: 7	(F	GOTO	Р	TRACE	Z	REM

NOTE: The funny looking characters in line 59 and 60, must be entered • CONTROL & "H", and O" = CONTROL & ",". (Blanks will appear on screen)

28 DATA OPTION, 129, 137, 56, 15 43 A\$="...ATTENTION...YOU HA 64 DISPLAY AT(12,8):"3 FOR D 8, OPEN, 129, 145, 57, 159, X-X-, 2 VE ACCESSED THE COMPUTER'S H RILL ni" 00, 1, 1, 1, PRINT, 145, 161, 59, 15 IGH SECURITY INTERNAL COMPUT 65 CALL KEY(0, K, S):: IF K=49 6, X-X-, 200, 1, 1, 1 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142 29 DATA CALL, 129, 161, 61, 157, 44 GOSUB 142

33 DATA TRACE, 137, 161, 112, 14 52 CALL SPRITE (#17, 125, 9, 177 4, UNTRACE, 137, 89, 113, 145, INP, 165) UT, 137, 113, 114, 146, DATA, 145, 53 FOR S=4 TO 15 :: CALL COL 97, 115, 147 OR (#S, 8) :: NEXT S

97,115,147 34 DATA RESTORE,137,121,116, 54 CALL CHAR(123,"000000000 148,RANDOMIZE,137,137,117,14 000000") 9.NEXT,153,113,118,150,READ, 55 DISPLAY AT(2,6):"def 137,97,119,151 35 DATA STOP,153,97,120,152, 6):"dj ki" DELETE,137,129,121,153,REM,1 56 FOR R=4 TO 11 :: DISPLAY AT(R,6):"l

53,89,122,154 36 DISPLAY AT(1,6):"'aabbbbb bbbbbbbaac":: DISPLAY AT(2, 6):"def{{{{{{{{{{{{{{{{{

24 IF CODE\$(Y)="X+X+" THEN C aaaaaac" :: DISFLAY AT(12.8):"'aaaaaa 24 IF CODE\$(Y)="X+X+" THEN C aaaaaac" :: DISFLAY AT(17.8) DDE\$(Y)=","

 25 NEXI Y
 40 DISPLAY AT(18,8): "dvDWERT
 62 DISPLAY AT(4,7): "HOME CO

 26 DATA DN, 153, 153, 46, 155, AN
 YUIOP/i" :: DISPLAY AT(19,8)
 MPUTER 1" :: DISPLAY AT(6,8)

 D, 137, 169, 47, 187, THEN, 129, 15
 '''dvASDFGHJKL;&i" :: DISPLAY
 MPUTER 1" :: DISPLAY AT(6,8)

 3,48, 176, T0, 129, 81, 49, 177, ST
 AT(20,8): "dvZXCVENM, vvi"
 LAY AT(8,8): "1 FOR RULES

 EP, 129, 89, 50, 178
 41 DISFLAY AT(21,8): \$%/v
 I"

 27 DATA X+X+, 129, 97, 51, 179;
 vvi" :: DISPLAY AT(22,8)
 63 DISPLAY AT(9,8): "

 129, 105, 52, 180;
 : 129, 113, 53
 : "stttttttttttu"
 1" :: DISPLAY AT(10,8)

 129, 55, 183
 170)
 : "10
 : "2

40 DISPLAY AT(18,8): "dvQWERT

42 CALL SPRITE(#16,95,2,170,):"2 FOR CODES 170) LAY AT(11,7):"

-5-

51 GOTO 49

54 CALL CHAR (123, "0000000000

55 DISPLAY AT(2,6):"def ghi" :: DISPLAY AT(3,

1 " AT(R,6):"1 :: NEXT R

57 DISPLAY AT(12,6):"dm ni" :: DISPLAY AT(1

61 CALL KEY(0,K,ST):: IF ST= 0 THEN 61

62 DISPLAY AT (4,7): " HOME CO

66 DISPLAY AT(6,8): "RULES FO R THE 1" :: DISPLAY AT(8,8) : "SHORTCUT METHOD1" :: DISPL AY AT(10,8):"OF TYPING IN 67 DISPLAY AT (12,8): "PROGRAM S IN XBni 68 A\$="...PAFES ANY KEY TO R ETURN TO MASTER SELECTION LI ST... 71 GOSUB 153 72 AS="...YOU CAN ENTER MANY OF THE MOST USED STATEMENTS OR COMMANDS BY PRESSING ONL Y DNE KEY ... 73 GOSUB 153 74 AS="SOME OF THE STATEMENT S ARE PRINT.... INPUT.....R ANDOMIZE....DATA....GOTO.... COSUB....RESTORE....FOR....N Ext....IF....THEN..+MORE.." 75 GOSUB 153 76 AS="...FOR EXAMPLE LETS' SAY THAT YOU WANT TO TYPE IN A PROGRAM LINE LIKE THIS>10 RANDOMIZE..... 77 GOSUB 153 78 GOSUB 163 79 DISPLAY AT(6,8):">10 RAND 1" OMI ZE 80 FOR F=1 TO 20 :: DISPLAY AT (8,8):" SHORTCUT 1": DISPLAY AT (10,8):"V V V V V V V!" :: DISPLAY AT (10,E):" V V V V V V V !" 81 DISPLAY AT (10,8):" 1" :: NEXT F 82 AS="...YOU WOULD FIRST TY PE THE LINE NUMBER IN THE NC RMAL WAY 11 83 GOSUB 153 84 DISPLAY AT(12,8):">10 ni. 85 AS="NOW BEFORE YOU T YPE ANYTHING ELSE YOU U OULD TYPE THE WORD REMAP

___ OR THE EXCLAMATION FO: ŇT____!

109 GOSUB 163 86 GOSUB 153 168 FOR L=1 TO LEN(A\$) + 169 CALL DELSPRITE(#1,#2.#3) 136 IF CODE\$(Y)="X-X-" THEN 87 DISPLAY AT (12, 12):"! 110 DISPLAY AT(4,6):"1 SH 134 1" :: DISPLAY AT(8 137 FOR Z=1 TO LEN(CODE\$(Y)) 1" :: DI :: CALL HCHAR(6, Z+9, ASC(SEG\$ 170 DISPLAY AT (24, 1): SE :: (As ni' ORTCUT 88 A\$="...IF YOU TRY TO USE 8):">10 ! .,28) SFLAY AT(10,8):">LIST THE SHORTCUT METHOD WITHOUT

 SPLAY AT(10,8):">LIST
 (CDDE\$(Y),2,1)/):: NEAL 1

 1"
 138 DISPLAY AT(8,8):"CAN BE

 111 DISPLAY AT(12,8):"10 ! R ENTERED 1" :: DISPLAY AT(10,

 ANDUMIZED:"
 B):"BY PRESSING

171 CALL SPRITE (#1, 119, 9, 161 ,74,#2,119,9,161,81,#3,119,9 ,DR(Y),DC(Y)) YOU WILL RECE -E USING IVE AN ERROR MESSAGE 172 CALL KEY(0,K,S) 89 GOSUB 153 112 A\$="PRESTO... THERE IS Y PLAY AT (12, 8):"CTRL AND ???? OUR PROGRAM LINE... JUST AS _______ni" 90 AS="...ND+ HERE COMES THE SHCRTCUT CODE...." 173 IF S<>0 THEN 176 174 NEXT L 91 62908 153 IF YOU HAD TYPED 175 GOTO 166 A 139 GOSUB 180 176 DISPLAY AT (24, 1) : RFT\$ (" 92 AS="...YOU SHOULD PRESS A ND HCLD THE CTRL KEY AND AT THE SAME TIME FRESS THE N__ Έ_ __D__O__M_ 1 140 DISPLAY AT(6,8):" 28):: CALL DELSPRITE(#1,#2 :: GOTO 134 1 IT3 GOSUB 153 141 END HI THE SHALL THE THE THE SO THE U KEY..." 73 GOSUB 153 74 FOR F=1 TO 30 :: CALL SPR ITE(#1,119,9,161,74;#2,119,9 ,161,81,#3,119,9,137,137):: FOR D=1 TO 50 :: NEXT D :: C 177 GOSUB 163 178 IF K=13 THEN RETURN 114 A\$="...BEFORE YOU CAN RU 142 A\$=RPT\$(" ".28)&A\$&" " N YOUR PROGRAM YOU MUST GO B 143 FOR L=1 TO LEN(A\$) N YOUR PROGRAM YOU MUST GO B ACK AND ELIT THE LINE TO REM OVE THE WORD REMARK OR T 179 GOTO 62 144 DISPLAY AT(24,1):SEG\$(A\$ 180 A\$=" ... PRESS THE LETTER L.28) OR NUMBER KEY THAT COMPLETES THE ABOVE STATEMENT... OR P RESE ENTER TO RETURN TO THE MASTER SELECTION LIST..." 181 A\$=⁵⁵ \$("",28)&A\$&"" 182 FOR L=1 TO LEN(A\$):: DIS DISY (0+1) HE EXCLAMATION POINT 145 FOR D=1 TO 10 :: NEXT D 146 CALL KEY(0,K,S) 147 IF S<>0 THEN 150 115 GOSUB 153 ALL DELSPRITE(#1,#2,#3):: NE 116 DISPLAY AT(12,8): "10 RAN DOMIZE ni" XT F 148 NEXT L 117 FOR D=1 TO 3000 :: NEXT D :: GOSUB 163 :: GOTO 62 95 AS="...THE CURSER WILL AD VANCE BUT NOTHING WILL BE PR INTED ON THE SCREEN..." 149 RETURN ",28) 151 IF K=13 THEN 52 152 CALL KEY(0,K,S):: IF K=1 153 A\$=RFT\$("",28)&A\$\$ 154 CALL KEY(0,K,S):: IF K=1 155 CALL KEY(0,K,S):: IF K=1 154 CALL KEY(0,K,S):: IF S 0 THEN GOSUB 188 155 NEXT I 156 NEXT I 118 GOSUB 163 96 GUSUB 153 119 DISPLAY AT(4,8):"HOME CO 97 A≸="...WHEN YOU ARE FINIS MPUTER 1" HEI WITH THE LINE ... DON'T 120 DISPLAY AT(6,8):"CODES F 120 DISPLAY AT(6,8): "CODES F OR THE 1" :: DISPLAY AT(8,8 153 A\$=R+T\$("",28)&A\$&"" 185 NEXT L 154 FOR L=1 TO LEN(A\$) 186 GOTO 180 155 DISPLAY AT(24,1):SEG\$(A\$ 187 RETURN FJHSET TO PRESS ENTER ... " 98 GOSUB 153):"SHORTCUT METHOD1" :: DIŚP LAY AT(10,8): "OF TYPING IN 99 GOSUB 163 100 DISPLAY AT(4,8):">10 RAN 188 DISPLAY AT(24,1): RPT\$(" .28) DOMIZE 1" :: DISPLAY AT(6,8):" SHORTCUT 1" :: DISP 121 DISPLAY AT(12,8):"PROGRA MS IN XBni" ",28):: IF K=Y+46 OR K=LC(Y) OR K=CT(Y)THEN 192 156 FOR D=1 TO 10 :: NEXT D 157 CALL KEY(0,K,S) 158 IF SCO THEN 161 LAY AT(10, B): ">10 ! 122 FOR D=1 TO 2000 :: NEXT 189 IF K=13 THEN 62 190 FDR F=3 TO 1 STEP -1 :: CALL SOUND(-30,F*110,0):: NE D :: GOSUB 163 123 FOR Y=0 TO 44 159 NEXT L 101 DISPLAY AT(12,8):"> ni" 160 RETURN 124 IF CODE\$(Y)="X-X-" THEN XT F 161_DISPLAY AT(24,1):RPT\$(" 102 A\$="...DON'T WORRY ... HE WORD ___RANDOMIZE HA 191 A\$="...THAT IS NOT RIGHT ...TRY AGAIN..." :: GOTO 181 192 DISPLAY AT(4,8):"YOU ARE ",28) 162 GOTO 62 T 130 HE WORD RANDOMIZE HAS 125 DISPLAY AT(6,8):"CTRL AN REEN ENTERED INTO THE COMPUT D ";CHR\$(Y+46);" 1" ER'S MEMORY..." 126 DISPLAY AT(8,8):"IS THE 163 DISPLAY AT(4,8):" RIGHT 1" :: DISPLAY AT(12, 17):" "&CHR\$(Y+46)&" ni" 1" :: DISPLAY AT (6.8 ER'S MEMORY...126 DISPLAY AT(8,8): 15 (HE103 GOSUE 153SAME AS 1"104 A\$="...YOU CAN CHECK THI 127 FOR Z=1 TO LEN(CODE\$(Y))S IF YOU TYPELISTOR:: CALL HCHAR(10, Z+9, ASC(SEGIF YOU TYPE THE LINE NOMBER \$ (CODE\$(Y), Z, 1))):: NEXT ZANDFCTN E____ORFC128 GOSUE 166TNX105 CETTO129 GOSUE 163 1" :: DISF 193 FOR F=1 TO 6 :: CALL SOU ND(-1,F*200,0):: NEXT F LAY AT(8,8):" OR :: CALL HCHAR(10, Z+9, ASC(SEG Ĩ 164 DISPLAY AT(10,8):" 194 FOR Q=1 TO 15
 1":: DISPLAY AT(12
 195
 CALL SPRITE(#1,119,9,161

 ni"
 ,74,#2,119,9,161,81,#3,119,9

 RN
 ,DR(Y),DC(Y)
 ,8):" 105 Ê E B 153 130 NEXT Y 165 RETURN 106 LIEFLAY AT(12,9):"LIST 131 GOTO 123 132 GDP//B 163 166 A\$="...PRESS ENTER FOR A 196 FOR D=1 TO 50 :: NEXT D NEW CODE AND IT'S MEANING . :: CALL DELSPRITE(#1,#2,#3): ..DR ANY OTHER KEY TO RETURN : NEXT Q TO MASTER SELECTION LIST... 197 GOTO 132 ni " 132 133 LISFLAY AT (4,8): "SHORTCU 107 AS="... AND PRESS ENTER T DRILL I" 11 134 RANDOMIZE 108 60SUB 153 198 RETURN 135 Y=INT(RND#44) 167 A\$=RPT\$(" ",28)&A\$&" "

NOTES FROM OTHER NEWSLETTERS.....

LA 99ers, Chuck De Marti...From the GENiel TRAVelER, Barry Traver announces a fix for a minor bug in ARCHIVER. The fix is to change line 635 to:

635 KK=(Z-1)*(100*INT((KK-1)/50)+1)+2-Z

There was no specific description of the bug, except that it yielded some very "interesting numbers".

Here's one that has stung Jan and I with DM1000, version 3.5 (at least). If you format a disk double density with a CORCOMP controller, and pass the diskette to someone with a MYARC disk controller, they will get an error message, saying that the diskette is not initialized or "blank". The CORCOMP controller will put 16 sectors per track in the header, even though it correctly formats the diskette, and the disk is perfectly OK for the CORCOMP.

Mike Dodd of the LA 99ers, has a fix. With a disk editor, edit the first sector of MGR1, at byte 216 (v. 3.5), you should see (in HEX) 10 00 02 DO 00 5A. Now change the 10 to a 12 and write the sector back. USE A BACKUP FOR THIS FIX ! Another fix for the same problem comes from Jack and BJ Mathis of the SW 99ers. If you have the Source Code, find SCT CNT in MGRPART1, and change >1000 to >1200. TI-99/4A MEMORY ARCHITECTURE EDITED BY JOHN F. WILLFORTH



NOTE: THE HEAVY LINES INDICATE FEATURES INCLUDED WITHIN THE CONSOLE. I HOPE THAT THIS MAP WILL BE OF SOME USE IN CLEARING UP THE MEMORY SCHEME THAT WAS DEVELOPED BY TI TO MAKE MAXIMUM USE OF THE "GROM", AND THE ADDRESSING LIMITATIONS OF THE CPU (32K WORDS). FROM THIS DIAGRAM YOU CAN SEE, HOWEVER, THAT THE TI-99/4A HAS HAD THE POTENTIAL SINCE IT'S INCEPTION, TO BE A GREAT COMPUTING MACHINE.

-7-

GETTING ON LINE: AN INTRODUCTION TO TELECOMMUNICATIONS Part Two A Guide to Buying Modems and How to Hook Them Up By Fred and Amy Mackey

The world we live in today is an electronic universe where information and messages streak around the world, or just across town, at the speed of light. In this world you can search for a job, play games, meet friends, consult an encyclopedia, all without ever leaving your house. Entering this electronic universe is a possibility for anyone owning a personal computer. The only additional hardware and software you need for most machines is a printed circuit board called a "serial card", a modem, and a telecommunications software package. This month we will look at modems, on our journey into the world of telecommunications.

When buying a modem, there are five basic features you should look for, which are as follows:

1. Direct Connect which means it plugs directly into a modular telephone jack, eliminating all outside noise. The other option is an accoustic modem, the only advantage to it being that it can be used with any phone, whether or not a modular jack is available. (*Note - If your home does not have a modular jack, you can purchase an adapter to make the conversion for about \$5.)

2. <u>300</u> <u>Baud</u> - This is how fast the modem will send and receive data. A 1200 baud modem is 4 times quicker than a 300 baud modem, but it costs about twice as much. (*Note - Although you can receive information 4 times faster, Compuserve and most databases charge extra to send information at this speed.)

3. Auto Origin te - This feature causes the modem to dial the number you have enter- from the computer keyboard, as opposed to you dialing the phone yourself. (*Note - The real advantage to this is that the modem will also have the ability to keep trying the number if it is busy, which frees you up from dialing over and over.)

4. <u>Auto Answer</u> - This feature is necessary if you want to have the ablity to receive calls via your computer. (*Note- If you ever want to set up your own BBS, then this feature is a must.)

5. Full Duplex - This is the ability to send and receive signals at the same time. Simply put, the database computer is contantly asking your computer if it is ready, and your machine is constantly responding 'yes'. Without full duplex, there would be a line turnaround delay between each question and answer. (*Note - Full Duplex can be compared to having a conversation on a telephone, as opposed to Half Duplex which can be compared to having a conversion on a CB Radio.)

Any modem can be used with any communicating computer. However, serial cards (and software packages) are designed for specific computers. To hook up the modem, you need to have a serial card. The job of the serial card, simply put is to take the internal language of your computer, which is spoken in 8 bit "words" and send the "words" out of he computer to the modem one bit at a time, instead of 8 at a time. ("Serial" for transmitting bits invdividually in a series, and "parallel" for transmitting bits in a parallel - 8 at a time.) So, the serial card takes the specific language of your computer, and makes it common language for any brand of modem to receive. (*Note - If you own a serial printer, as opposed to a parallel printer, you already have a serial card in your machine. With software, you might be able to unplug your printer and plug in a modem.)

There will be a "port" or plug on the serial card, and a port on the modem. Now, just because you bought a modem, that doesn't mean it comes with a cable to connect it to the serial card in your computer. The two are hooked together by plugging in a flat 25-wire "ribbon cable" to each port, which must be purchased seperately. Most modems and serial cards have female ports and require ribbon cable with male plugs on either end. But there is always exceptions to the rules, so make sure you is a cable with the right sex for your equipment. The plugs are called ISIS connectors. An alternative for the Apple II, IBM/PC or any other S-100 bus computer is a "modem-on-a-card", which is a serial card with a built in modem that lets you plug your phone directly into your computer. The price range is around \$350-\$400, and as of this writing is not avaiable for the I computer. NEXT MONTH: Software Packages and How To Use Them

FUTURE ARTICLES: Databases and Bulletin Board Systems How to Start Your Own BBS

-8-

GETTING THE MOST FROM YOUR CASSETTE SYSTEM BY MICKEY SCHMITT NUMBER 11 UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES PART III

-th

- 1. MAKE SUPE THAT YOUR CASSETTE RECORDER IS CONNECTED TO YOUR COMPUTER CONSOLE CORRECTLY. THE CASSETTE RECORDER INTERFACE CABLE MUST BE CONNECTED TO THE 9-PIN PLUG AT THE REAR OF THE COMPUTER CONSOLE - DON'T CONFUSE THIS PLUG WITH THE 9-PIN JOYSTICK PORT ON THE SIDE OF THE CONSOLE - THEY ARE NOT INTERCHANGABLE! WHILE YOU ARE AT IT - MAKE SURE THAT THE COLOR-CODED WIRES WHICH PLUG INTO THE CASSETTE RECORDER ARE ATTACHED CORRECTLY AS WELL. THE CASSETTE RECORDER WILL NOT OPERATE PROFERLY IF THE COLOR-CODED WIRES ARE REVERSED! THEY MUST BE "BLACK" TO THE RECORDER'S REMOTE JACK - "WHITE" TO THE RECORDER'S EARHONE JACK - AND "RED" TO THE RECORDER'S MICROPHONE JACK.
- 2. IF YOU ARE USING D/C CURRENT INSTEAD OF A/C CURRENT MAKE SURE THAT YOUR BATTERIES ARE FRESH! WEAK BATTERIES WILL CAUSE YOUR DATA TO BE DISTORTED!
- 3. MAKE SURE THAT YOUR CASSETTE RECORDER'S VOLUME CONTROL AND TONE SETTINGS ARE ATTISTED PROPERLY. GENERALLY SPEAKING - A VOLUME CONTROL OF "8" AND A TONE SETTING OF "9" ARE RECOMMENDED.
- 4. MAKE EURE THAT YOUR CASSETTE TAPE HEAD IS CLEAN. IF YOU CAN'T REMEMBER THE LAST TIME THAT YOU CLEANED IT THEN IT'S BEEN TOO LONG!
- 5. MAKE SURE THAT YOU ARE "SING A "HIGH-QUALITY" CASSETTE TAPE. A CASSETTE TAPE OF "POOR-QUALITY" SIELDS "POOR-PERFORMANCE" HEADACHES AND TOTAL FRUSTRATION!
- 6. MAKE SURE THAT YOUR CASSETTE TAPE IS NOT ANY LONGER THAN A C-60 CASSETTE. (WHICH IS 30 MINUTES PER SIDE). LONGER TAPES →PE THINNER AND PROVIDE LESS FIDELITY.
- 7. MAKE SURE THAT YOUR CASSETTE TAPE IS IN GOOD CONDITION THAT THE TAPE HAS NOT BEEN DAMAGED OR ACCIDENTLY ERASED. IF IN DOUBT TRY ANOTHER TAPE!
- 8. 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. ALSO, MAKE SURE THAT THE CASSETTE TAPE HAS BEEN POSITIONED AT THE BEGINNING OF THE DESIRED PROGRAM.
- 9. MAKE SURE THAT YOUR CASSETTE TAPE WAS RECORDED WITH YOUR CASSETTE RECORDER OR AN IDENTICAL MODEL. IF THE CASSETTE TAPE WAS ORIGINALLY FELORDED USING A "DIFFERENT" TYPE OF CASSETTE "ELOFDEF ~ IT IS POSSIBLE THAT THE PROGRAM WILL NOT LOAD PROPERLY. WHEN THIS OCCURS - YOU HAVE NO CHOICE BUT TO... EITHER OBTAIN ANOTHER COPY OF THE PROSEAM - USING YOUR CASSETTE RECORDER TO "SAVE" THE PROGRAM ~ OR "LOAD" THE PROGRAM AGAIN - THIS TIME USING THE CASSETTE RECORDER THAT HAD ORIGINALLY "SAVED" THE PROGRAM.

NEXT MONTH'S TOPIC WILL BE UNDERSTANDING - CREATING - AND USING - CASSETTE FILES. THIS TOPIC SHOULD PROVE TO BE QUITE INTERESTING - AS I WILL BE LEARNING QUITE ALOT OF "NEW" MATERIAL MYSELF - SINCE THIS IS AN AREA THAT I HAVE NOT HAD VERY MUCH EXPERIENCE WITH IN THE PAST.

IF YOU NEED ANY HELP UNDERSTANDING THE CASSETTE ERROR CODE: AND MESSAGES OR ARE EXPERIENCING CASSETTE ERRORS - JUST GIVE ME A CALL (412-325-0163) AND I'LL TRY TO HELP.

I'm running out of space, because here I am on page 9, and I've got so much more to give you. Well since some of it can't really wait until next month, I will duplicate some of it and bring it to the next meeting. Please come to the April meeting. We have some really good software, a printer stand, and much more to give or raffle off, whatever the GREAT PO-BA decides.

large. About two months ago we had a very interesting demonstration of The RAVE 99 Keyboard by one of our members, Willis Richardson. I really had a renewed interest in getting one of the RAVE units, especially when my oldest daughter Willis Richardson. I really had a renewed interest in getting one of the RAVE units, especially when my oldest daughter expressed to me how well she was taking to typing in school. The T.I. console I felt would not be the best keyboard for a novice to practice on at home. BUT, the same old thing that always seems to haunt the back of your mind when you are about to buy something NEW, "MAYBE IF I WAIT THERE WILL BE SOMETHING BETTER COME OUT", kept me from actually making the purchase. I hate to say it, but in this case it may be true. I have not yet put the interface into use, but the ad shown below certainly does indicate some additional features which may convince you to take the step. Note the price also. *****THERE WILL BE ONE AT THE APRIL MEETING FOR YOU TO VIEW.*****

KBM 99					
KEVROARD INTERFACE	BLAYALERS HODEL . M				
KEIDOALD INTELLACE.					
FOR THE TI994A					
	I F7 IL F8 3 (REDO)				
	(BACK) [F9][F10] RUN(cr)				
	BULEIED EUNCILON KEYS				
the test test while drawe will allow upon to upon one IDM an approach to	PRINT_ [FI][F2] INPUT_				
In simple language this device, will allow you to use any istri or comparable	DPEN # [F3][F4] CLOBE #				
keyboard on your Til	CHR8([F5 3] F6 3 RETURN_				
	MELEPIANUE FULIPIUS DISPLAY AN				
Features	CALL CHARL [F1] [FP] CALL CLEAR				
that the key based in part (not corrow like the Ti)	CALL EDLORI [F3] [F4] CALL BCHAR				
The man region of region contraction and the to	CALL HCHAR([F5] F6] CALL KEY(
	CALL PEEK (F7) F8) CALL SCREEN				
*Separate Numeric/Cursor keupod	CALL BOUND([F9][F10] CALL VEHAR(
I louded an antian own with Ainhall ask ant	NI ENNEILON REXE				
- Softact obergaou aven man lebug rock ore	CA' - (FIJCFEJCALL - 'ITE(
Manu FCTN Key operations require only one key press	CALL D REPORTED TO CALL				
"Effusion programmed commands and functions such as:					
ta di bre broth granne commune are renorme and	CALL SINGLAS (F9 31 F10) CALL BAYS				
"DUD DSKI." "SAVE DSKI." "LIST ' "RUN(er)"	ESC EUNCIION KEYS				
* (proceed) * (back)* "PRINT " "INPUT	RUN "DEK1. (FI 1(F2) MERGE "DEK1.				
*ACCEPT AT (" "DISPLAY AT (" "CALL CLEAR" "CALL KEY("	1 CALL INIT_ (F3 31 F4 3 "PID"				
"CALL PEEK(" "CALL SPRITE(#" "SIZE(cr)" "RUN "DSh1 "	4 CALL LDADI [F5][F6] "R6232."				
"CALL LOAD (" "CALL INIT " "TRACE" "UNTRACE"	612E(cr) (F7)(F8) D6K1.				
and many many more	IRALE LEFY JEFIOJ UNTRACE				
승규는 승규는 것을 다 같은 것을 다 가지 않는 것을 많이 있다. 그 것은 것을 가지 않는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 하는 것을 하는 것을 하는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 하는 것을 하는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있는 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 수 있다. 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 수 있는 것을 것을 수 있는 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 것을 수 있는 것을 것을 것을 것을 것을 것을 것을 것을 것 같이 같이 같이 않는 것을 것 같이 없다. 것을 것 같이 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 없는 것 같이 없다. 것 같이 없는 것 같이 않는 것 같이 없다. 것 같이 않는 것 않은 것 같이 않는 것 같이 없다. 것 같이 않는 것 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 같이 않는 것 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 같이 않는 것 않는 것 않는 것 같이 않는 것 않 않는 것 않는 것 않는 것 않는 것 않는 것 않는 것 않					
* Keuboard activated screen dump via the Prt Sc keu. (Printer and Software	(SHIFT) (-) = MOVE CURSOR RIGHT				
	I IBCK.LOCK/BREAK] # BREAK				
required for screen pump?	1 [SHIFT][CONTROL][PrtSc] = ACTIVATE LOAD INTERRUPT				
* Easy hook up to ald console. (Do it in 15 minues or less)	ALIANDEBIC KEYPAR OPERALIONE				
	IALTI 1] - MIESING KEY #1				
	LALTIL 2 J - HISSING VEV -				
The MLsustems model KBM/99 comes with everything you need texcluding					
hauboard which you can nick up for \$30-\$90). Any IBM PC/XT Compatable					
reforme annen fine om her ob tet tee trenning met en te	1 1.1. WB				
Keyboard will work.	(TAB) - RIGHT TAB				
	I [SHIFT][TAB] - BACK TAB				
The price is used approaching \$90.00	I CHOME] - HOME				
The blace is could have change and the could be	(END) - PAGE DOWN				
	I IPGUPI = PAGE UP				

THE
NEXT WEST PENN 99'ERS
M E E T I N G
APRIL 21st
WILL BE HELD AT THE
UNITED PRESBYTERIAN
CHURCH OF THE COVENANT
ON THE CORNER OF OAK
AND 4TH STREETS IN
IRWIN, PA.
TIME OF THE MEETING IS
7:00 P.M., PRECEEDED
AT 6:45 BY SOME OF THE
LIBRARY FUNCTIONS.
S.I.G.S THIS MONTH:
T.I. WRITER8:30
STAN KATZMAN
ASSEMBLY8:30
GENE KELLY or
CLYDE COLLEDGE
HARDWARE 8:30
JOHN WILLFORTH
MISC8:30
WHOEVER
YES WE DO HAVE THE
GREATEST COMPUTER
CLUB REFRESHMENT
IN THE "WORLD"
(thanks to JAN)
NEED DIRECTIONS OR
MORE INFO? CALL:
412- 271-6283 SCOTT



1



EDMONTON	77'ers	FD	MAN		
ALBERTA,	CAN	VADA,	T	5J3L	_1

The WEST PENN 99'ERS

write

Mantens, P.O. BOX 268 VALLEY FALLS , RL 02864

% John F. Willforth R.D.#1 Box 73A Jeannette, PA 15644

APRIL 1987 ISSUE