

THE SNUGLER



FROM THE SOUTHERN NEVADA USERS' GROUP

Vol. 3 - No. 10

OCTOBER, 1985

NEXT MEETING

MONDAY, OCTOBER 14, 1985 - 6:30 PM

CHARLESTON PLAZA LIBRARY MEETING ROOM

PRESIDENT'S MESSAGE

Due to a change in my work hours this month, the President's Message will be somewhat shorter than usual.

This month we will have a demonstration of the Navarone Paint 'N' Print software package. Kelly Cress, one of our newest members will be giving the demonstration. Paint 'N' Print is a versatile and well written graphics package. It will allow you to create an almost unlimited variety of graphs, pictures, or just plain doodles. There are options that let you move portions of the screen to other locations on the screen or make duplicates of portions of the screen anywhere you like. You can paint your picture in any of the usual colors or use textures to paint with mixtures of colors. You can save your creations to disk or tape. You also have the option of a screen dump if you have an Axiom printer. If you have another type of printer (like the TI impact printer for instance), you will have to buy the expanded graphics package in order to do screen dumps. The expanded graphics package requires 32K of memory to utilize all of it's capabilities, but has some nice features besides the screen dump that make it worth the extra investment (like saving your drawing to expanded memory for instant recall for instance). All in all, I was quite impressed with the package in the few days I was able to play with it before the last meeting.

Also on the agenda for the October meeting is another one of Gordon Leonard's tutorials. This one will cover use of the CALL KEY statement.

At the Sept. meeting, we organized classes in BASIC and in FORTH. The BASIC class meets twice a week at Gordon Leonard's house, and the FORTH class meets once a week at Jim Adkerson's house. So far, the classes seem to be coming along pretty well. Anyone interested in other classes or future BASIC or FORTH classes please let us know and we will try to schedule them soon.

JOHN MARTIN

BBS NEWS by John Martin

September was very slow for the BBS. There were a number of days with no callers whatsoever. I hope this trend will reverse itself once we get the new BBS program.

Speaking of the new program, I am happy to announce that we have gotten enough money to purchase the TIBBS program. I haven't ordered it yet because I have learned about two FREEMWARE BBS programs available that are supposed to be very good. One of them currently supports TE2 up/downloads and the other one is supposed to shortly. In the interest of getting the most for our money, the other officers and I have decided to order these two BBS programs for evaluation before we commit to the TIBBS system. The money collected could then be used to buy necessary support equipment (MODEM, X-BASIC, etc.). Anyone who has donated to the BBS fund that disagrees with this change can get his or her money refunded by making such request to the Treasurer or myself. If after evaluation we decide that neither of these programs lives up to our expectations, we can always order the TIBBS.

LIBRARIAN'S COLUMN by Bob Bieber

Sorry about the goof up at the August meeting. I will definitely bring the "MULTIPLAN" updates to the October meeting.

Donations to the Disk Library are on the increase. John Martin has donated 20 programs and one of our newest members, Jean Schmidt, has donated 38 new programs. Not bad, considering she has cleaned up on the 2 for 1 exchange. Along with some other donations we've gained about 75 new programs in the past 2 months. Looks like my assistant is going to get some work to do.

Again I have to emphasize that YOU must verify your donated programs work and YOU must include operating instructions when necessary. Remember, not all of our members have the same reference materials that you may have. I know I don't. In the future any programs that

won't RUN or can't be RUN because of a lack of instructions will be put on the back burner until I or my assistant can evaluate them or they will be returned. Sorry, but Lance and I don't have time to both DEBUG programs and manage the Library.

Because we already have a vast quantity of new programs, all future donations will be accepted on a credit basis only. Credits will be issued as soon as the donated programs are evaluated and accepted. This will give us a chance to check for duplications and verify program operability.

If you have a large number of programs to donate, please contact me at home (878-3167) or at the monthly meetings so we can make special arrangements. I can copy your disks in a matter of minutes, but if you want to take time to look at Library programs before you make an exchange, then we'll need extra time which, as many of you know, isn't always available at our meetings. Exceptions can be made at SNUG meetings if time allows and the line doesn't get too long.

If any of you are thinking of donating programs, I suggest you do it soon or somebody else may beat you to the punch and donate YOUR program(s) denying you the credits. Remember, it's a 2 for 1 exchange, no matter what the size.

The "QL-PRINTER" program Ver 1 XB that I handed out during the August meeting has a couple of BUGs in it. It will by-pass the carry over line routine in the AUTO Mode and drop at least one program name at the start of each new page. For a quick fix delete OR APG in Line # 410. A second BUG is in the Repeat function and can be fixed as follows. First insert RPT=0 at the start of Line 610. Next in Line # 860 insert :: RPT=1 after HTTLN=J and change GOTO 590 to GOTO 570. Finally, insert OR APG after IF APG in line # 920. You also can delete all data after CALL CLEAR in line # 500.

These updates and any future changes will always be included in the latest version of the program available to "SNUG" members at all meetings.

Also please note: If you key in any programs from magazines, books, etc. - PLEASE make reference to the publication in REM statements at the start of the program.

That concludes this month's column. See you in October.

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TI-WRITER LONG LINES by Rudy Johnson

You may have noticed the QUICK REFERENCE SHEET in this issue already. If you look closely it is apparent that the lines are longer than 80 characters in length (135, in fact), and the sheet is not a cut-and-paste job. Of the 80 character screen line (that is the physical line I was frustrated for a long time in the seeming lack of ability to print a longer than 80 character line from TI-Writer. Well, I have FINALLY figured out how to exceed the 80 character limitation!

The problem as I understand the way in which

TI-Writer works is that a carriage-return character (ASCII 13) is automatically sent to the output device at the end of the 80 character screen line (that is the physical line length to the system for TI-Writer.) This physical line length carriage-return must be stripped from the stream sent to the output device (printer or whatever.) This is accomplished on the TI by appending the .CR to the output device specification, e.g., P10.CR or RS232.BA=xxxx.CR, etc. This removes the automatically generated end-of-line at the 80th character position. However, if this is all you do and send a file to the printer this way, you will find that your printer will print out a line to the 80th column and then proceed to print the rest of a line at the 80th character position (unless your printer automatically does a carriage-return at this point, some do and I haven't dealt with that yet.)

To complete the requirements to send a longer line you need to insert a new physical end-of-line (where it should logically be) in your text file to tell the printer when it should do a carriage-return. This is done by placing a line-feed character at the end-of-line position. In TI-Writer this is done by pressing control U (CTRL and U) to get into Special Character Mode, then J (capital J), then control U again to exit Special Character Mode at each end-of-line position that you determine.

This can get very complicated in multi-section chart like the QUICK REFERENCE in this issue as the information from one line to the next line in a text file is not logically related (different topics.) There are a number of possible solutions to this problem. The first, and the one I used, is to create the chart in two logical blocks of related information and then move each line of the second block into its proper place in the first block body. (For a chart of this size I would NOT do that again!) The second and easier way is to once again create the text file in two logical blocks and then use a program written in Extended BASIC using the LINPUT statement to read the DIS/VAR 80 file you created to either create a new DIS/VAR 80 file to read into TI-Writer, or to send directly to the printer. Either way, the XB program could be set to automatically send the line-feed character at the logical end-of-line so you would not have to place it into the file! (Programmer's Challenge!)

There are some other considerations to printing these long lines in tables. If proper alignment is needed on the right of the 80th character a real character (and not a SPACE) needs to be placed there (at least in DIS/VAR 80 type files.) There may be a way around this using FIXED format but I haven't had time to experiment with that yet. Of course an XB program could generate the needed line length also.

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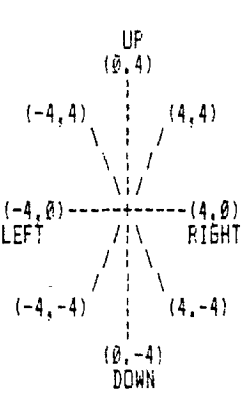
NOTE FROM THE EDITOR

I must apologize to the author and users' group newsletter from which I originally got the idea and most of the information for the QUICK REFERENCE SHEET which is in this issue. In expanding on the sheet and reconstructing it I misplaced the copy which I had made originally, and I had already passed the newsletter on to the library.

QUICK REFERENCE SHEET

COLOR CODES		PATTERN IDENTIFIER		ERROR CODES		ASCII CODES		
COLOR	VALUE	CONVEPSION TABLE		FIRST	COMMAND OR STATEMENT	CODE CHAR	CODE CHAR	CODE CHAR
TRANSPARENT	1	0 0 0 0	0	0	OPEN	30	62 >	94 ^
BLACK	2	0 0 0 1	1	1	CLOSE	31	63 ?	95 (underscore)
MED. GREEN	3	0 0 1 0	2	2	INPUT	32 (space)	64 @	96 `
LT. GREEN	4	0 0 1 1	3	3	PRINT	33 !	65 A	97 a
DARK BLUE	5	0 1 0 0	4	4	RESTORE	34 "	66 B	98 b
LT. BLUE	6	0 1 0 1	5	5	OLD	35 #	67 C	99 c
DARK RED	7	0 1 1 0	6	6	SAVE	36 \$	68 D	100 d
LT. RED	8	0 1 1 1	7	7	DELETE	37 %	69 E	101 e
MED. RED	9	1 0 0 0	8	8	EOF (End Of File)	38 &	70 F	102 f
LT. PEP	10	1 0 0 1	9	9		39 '	71 G	103 g
DK. YELLOW	11	1 0 1 0	A	SECON	TYPE OF ERROR	40 (72 H	104 h
LT. YELLOW	12	1 0 1 1	B	0	DRIVE NOT FOUND	41)	73 I	105 i
DK. GREEN	13	1 1 0 0	C	1	DEVICE or FILE WRITE	42 *	74 J	106 j
MAINT	14	1 1 0 1	D		FORGOTTEN	43 +	75 K	107 k
GRAY	15	1 1 1 0	E	2	BAD FILE ATTRIBUTE	44 ,	76 L	108 l
WHITE	16	1 1 1 1	F	3	ILLEGAL OPERATION	45 -	77 M	109 m
				4	NO SPACE	46 .	78 N	110 n
				5	ATTEMPT TO READ PAST	47 /	79 O	111 o
					END OF FILE	48 0	80 P	112 p
				6	DEVICE ERROR or	49 1	81 Q	113 q
					HARDWARE ERROR	50 2	82 R	114 r
				7	FILE ERROR - File or	51 3	83 S	115 s
					disk does not exist	52 4	84 T	116 t

CHARACTER SETS	CALL KEY	VALUE OF KEYSTROKES	JOYSTICK RETURN VALUES
SET	ASCII CODES	CODE	KEYSTROKE
0	30-31	1	FCTN 7
1	32-39	2	FCTN 4
2	40-47	3	FCTN 1
3	48-55	4	FCTN 2
4	56-63	5	FCTN =
5	64-71	6	FCTN 8
6	72-79	7	FCTN 3
7	80-87	8	FCTN S
8	88-95	9	FCTN D
9	96-103	10	FCTN X
10	104-111	11	FCTN E
11	112-119	12	FCTN 6
12	120-127	13	ENTER
13	128-135	14	FCTN 5
14	136-143	15	FCTN 9
15	144-151/BASIC		
16	152-159/ONLY		



CODE	BASIC TOKEN	CODE	BASIC TOKEN
128	DATA	147	DATA
129	ELSE	148	RESTORE
130	::	149	COMIMIZE
131	!	150	NEAR
132	IF	151	READ
133	GO	152	STOP
134	GOTO	153	DELETE
135	GOSUB	154	REM
136	RETURN	155	ON
137	DEF	156	PRINT
138	DIM	157	CALL
139	END	158	FUNCTION
140	FOR	159	OPEN
141	LET	160	CLOSE
142	WAIT	161	FILE
143	WAIT/PAK	162	DISPLAY
144	TRACE	163	TRACE
145	UNTRACE	164	ACCEPT
146	INPUT	165	ERROR

ASC	PRESS	A	COMMENTS	ACCEPT	DISTANCE	KEY	ON WARNING	SCREEN
1	CTRL	A	START OF HEADING	CHARPAT	ERR	LINK	OPTION BASE	SCREEN
2	CTRL	B	START OF TEXT	CHARSET	FOR	INPUT	PATTERN	SPRITE
3	CTRL	C	END OF TEXT	CLEAR	GCHAR	LOAD	PEEK	STOP
4	CTRL	D	END OF TRANS.	CLOSE	GOSUB	LOCATE	POSITION	SUB
5	CTRL	E	INQUIRY	COINC	GOTO	MAGNIFY	PRINT	
6	CTRL	F	ACKNOWLEDGE	COLOFF	HCHAR	MOTION	RANDOMIZE	
7	CTRL	G	WELL	DATA	IF THEN	NEXT	READ	
8	CTRL	H	BACKSPACE	DEF	IMAGE	ON BREAK	REM	
9	CTRL	I	HORIZONTAL TAB	DELSPRITE	INIT	ON ERROR	RESTORE	
10	CTRL	J	LINE FEED	DIM	INPUT	ON GOSUB	RETURN	
11	CTRL	K	VERTICAL TAB	DISPLAY	JOYST	ON GOTO	SAY	
12	CTRL	L	FORM FEED					
13	CTRL	M	CARRIAGE RETURN					
14	CTRL	N	SHIFT OUT					
15	CTRL	O	SHIFT IN	ADDRESS	PARAMETERS	DESCRIPTION		
16	CTRL	P	DATA LINK ESCAPE					
17	CTRL	Q	DEVICE CONTROL 1	-32748	POKE 0-255	RATE of FLASH of CURSOR		
18	CTRL	R	"	-31788	POKE 192	DISABLE SPRITE action		
19	CTRL	S	"	-31804	PEEK X,Y	Return to Title Screen		
20	CTRL	T	"		POKE X,Y			
21	CTRL	U	NEG. ACKNOWLEDGE	-31806	POKE 16	DISABLES QUIT KEY (FCTN =)		
22	CTRL	V	END OF JUST IDLE		POKE 32	DISABLES END		
23	CTRL	W	END TRANS. BLOCK		POKE 64	DISABLES AUTO SPRITE MOTION		
24	CTRL	X	CANCEL	-31860	POKE 4	Goes to Console BASIC		
25	CTRL	Y	END OF COLUMN			after 'NEW' is typed		
26	CTRL	Z	TESTIT	-31860	POKE 0	Runs DSK1.LOAD		
27	CTRL	[ESCAPE	-31878	POKE 0,-28	Highest # SPRITE in motion		
28	CTRL	;	FILE SEPARATOR	-31931	POKE 0/128	Unprotects/Protects program		
29	CTRL	=	SEPARATOR	-31962	FCTN 32	Returns to TITLE SCREEN		
30	CTRL	0	RECORD SEPARATOR	-31962	POKE 255	Runs DSK1.LOAD		
31	CTRL	9	UNIT SEPARATOR	-31952	PEEK A,B,C,D	Recovers program with LOAD		
127	SHIFT	V	DELETE CHARACTER	-28672	PEEK A	96=Speech Syn. 0=No Speech		
				-31888	POKE 63,255	Disables Disks,NEW free mem		

EXTENDED BASIC STATEMENTS	
OPEN #file-number[:file-name[:file-organization]]	[,file-type][:open-mode][:record-type][:file-life]
#file-number: 1 to 255 (0 for console I/O)	file-name: "DSK1.name"; "CS1"; "RS232"; "PIO"
file-organization: RELATIVE; SEQUENTIAL (default)	file-type: DISPLAY (default); INTERNAL (faster)
open-mode: INPUT(read only); OUTPUT(write only);	UPDATE(read&write, default); APPEND(only
write to end of file)	record-type: FIXED(default for RELATIVE); VARIABLE
(default for SEQUENTIAL); (each may be followed	by numeric-expression for length (VARIABLE 80))
file-life: PERCENT(default)	CLOSE #file-number[:DELETE]
INPUT #file-number[:REC num-exp][:variable-list]	(use only with INPUT or STATE in OPEN)
(REC used only with RELATIVE, FIXED)	EOF(num-exp) 0 -- Not end of file
+1 -- Logical end of file	-1 -- Physical end of file
PRINT #file-number[:REC num-exp][:print-list]	(use only with OUTPUT, UPDATE or APPEND)
RESTORE #file-number[:REC num-exp] --(reset file)	

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 * in all aspects of Texas Instruments' 99/4 & 4A computer, including all *
 * related hardware and software by third party vendors. The GROUP meets *
 * 6:30 PM on the second Monday of the month - currently in the Clark County *
 * Library meeting room, 1726 E. Charleston Blvd. (Charleston Plaza Mall). *
 * Visitors and guests are welcome to attend the meetings. Information on *
 * membership is available at the meeting. *
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