THE SNUGLETter

FROM THE SOUTHERN NEVADA USERS' GROUP

LETTER FROM THE EDITOR

Finally, I'm getting around to putting a newsletter together again. The holidays became too busy a time for me to spend much time on this.

This will be the last SNUGLETter for those old members who have failed to renew their membership. The disorganized state of SNUG affairs need to be put to rest. Even though there are several positions which need staffing in the group we should be able to eke our way along. You might think about offering your time in some of those positions - helping our Treasurer who has a conflict with our meeting date; Program Librarian; Hardware Literature Libraian; Membership Coordinator among others. A little help in these areas would give the people currently running the group's affairs a lot of relief and time to spend on new directions.

I hope to have a system set up for the next meeting where members in good standing will be able to check out the newsletters which SNUG receives from other TI users' groups. There is too much information in them to be able to summarize them in the SNUGLET.

NEXT MEETING

MONDAY, JANUARY 14 — 6:30 pm

CHARESTON PLAZA LIBRARY MEETING ROOM

```
*********************************************************************
* SNUG OFFICERS 1984-1985          * Newsletter Editor            *
* Pres. Roy Hufford - 387-6300     * Rudy Johnson - 871-9583      *
* V.P. Gordon Leonard - 384-2302   * Newsletter submissions should *
* Sec. Beverly Hufford - 387-6300  * sent to P.O. Box 71514, Las  *
* Treas. Steve Buchanan - 363-1043 * Vegas, Nevada 89170          *
* *******************************************************************
```

Starting with this issue you will find program listings of the SNUG Library disks. Page 4 of this issue has the first few and will continue as space permits in the future.

The following article appeared in the Lehigh 99'er Computer Group Newsletter Vol. II, No. 8, August 1984:

BASIC: Full screen editing is finally possible!

John Hamilton, writing a column called 99 Tips in the Central Iowa 99/4A UG "The 4A Forum", (c/o Robert Utter, 3013 E. 32nd St., Des Moines, IA 50317), is up to tip 81. We don't know about the first 80 but the last is a real humdinger.

John's crucial insight into TI's MERGE (XBASIC) command makes this program tick. What he noticed, (and TI didn't document, naturally), was that the MERGE command doesn't check for syntax on the way back in (from the disk-Ed).

In other words, IF YOUR DISK FILE IS:

1. DISPLAY, VARIABLE 163
2. EACH RECORD STARTS WITH A LINE NUMBER (followed by a space-Ed)
3. THE LAST RECORD IS HEX FFFF (CHR$(255) twice)

   . . . . YOU HAVE A MERGE FORMAT FILE.

Notice that the file DOES NOT require any BASIC syntax! You could create a DISPLAY 163 file that consists of a grocery list and it will MERGE!

Why is the ability to create a MERGE file so earthshaking? Because now you can use TI WRITER or the EDITOR/ASSEMBLER to write your BASIC programs. You can have all of the features of their editors like Find String, Move, Copy, Include Files, and so on, and still be able to run the programs. You can also run a LISTed program (obviously it has to be on a storage device, not a printer). Other uses include being able to run screen dumps from the Terminal Emulator II environment.

TRANSL
VAR 80 to 163 conversion program

```
1 CALL CLEAR :: OPEN #1:"DSK1.TESTR" :: OPEN #2:"DSK1.OUTR",
    VARIABLE 163
2 LINPUT #1:L$ :: S=POS(L$," ",1) :: ON ERROR 6 ::
    N=VAL(SEG$(L$,1,S))
3 ON ERROR 5 :: A=INT(N/256) :: A$=CHR$(N/A6) :: PRINT L$
4 PRINT #2:CHR$(A);A$;CHR$(131);SEG$(L$,S+1,80);CHR$(0) ::
    GOTO 2
5 PRINT #2:CHR$(255);CHR$(255) :: CLOSE #2 :: END
6 ON ERROR 5 :: RETURN 2
```

*********************** FOR SALE ***********************

TI SOFTWARE:

   Terminal Emulator II - $15   MiniMemory - $60
   Securities Analysis - $20   Extended Basic - $60
   Beginners BASIC Tutor - $10

All unused except XBASIC (slightly used). Contact John Ballard at 798-2230 (days only).

How to use TRANSL: The program expects a standard DISPLAY, VARIABLE 80 file. Each line in the program text must begin with a line number. Error trapping on lines 2 and 6 will discard any line that has no line number. The program test line numbers DO NOT have to be in order; the MERGE command will put them where they ought to go.

If you use TI WRITER, be sure to use the fixed cursor mode. Otherwise each line will have a carriage return affixed to it and you'll get a syntax error. TI WRITER will also save a TAB line if you use word-wrap mode. Keep lines shorter than 80 characters because TRANSL will clip off the remainder (it is possible to get around that, so go ahead and change it).

You can modify line 1 to open different files. As the program runs, each line is displayed to the sreen. Watch for truncation on a LISTed or down-loaded file. When XBASIC returns READY, type the following:

```
NEW
MERGE "DSK1.OUTR" (or whatever)
```

If you run the program now, nothing will happen. Each line is a tail REMark. Edit the program from the top down using FCTN X and FCTN 1. As you delete each "!" and cursor down, the XBASIC system retokenizes each line into a RUNable statement. If you get a syntax error, look first for a truncated line. Second, insure that you didn't use word-wrap mode in TI WRITER. A quick check from the XBASIC environment:

```
CALL SCREEN(14) :: FOR A=0 TO 12  :: CALL COLOR(A,16,15) ::
NEXT A :: ACCEPT AT (4,4):A$
```

Don't answer ACCEPT, but rather Clear it with FCTN 4. Now list the program. Anything that looks like a red box is probably bad.

If you've a routine in one program, just LIST "DSK1.TESTR": (line numbers). and RUN TRANSL against it. Voila! Here's your routine in a MERGE format.

>Frederick Hawkins

[Editor's Note - I've copied line 3 of TRANSL exactly as it occurred in the SOUTHWEST NINTEY-NINERS NEWSLETTER (Sept, 1984), even though there is no previously declared A6 variable for the statement A$=CHR$(N/A6). The next newsletter said it should be N-A6. It still uses the A6 variable. You will have to figure out what it should be.

*********************** FOR SALE ***********************
TI SOFTWARE:
TI Editor/Assembler Manual (new still in wrapper) -$10.
   Rudy Johnson; see me at the meeting or call 871-9583 (home)-

TI HARDWARE:
A gentleman who did not identify himself called me last night and said that he had his entire TI system for sale. Includes an expansion system and about 20 modules. He said he would be at the Monday meeting. Rudy Johnson

ERRATA

PROGRAMMER'S REFERENCE GUIDE TO THE TI-99/4A

by REGENA

p. 52--Line 120 should have D instead of 5

pp. 68-69--Kinder-Art--there should be some spaces within
   lines*

p. 78--Lines 650--there is a space after AGAIN

p. 109--Hey, Diddle, Diddle--Line 460 should have one =
   instead of two, and add an ending " at the end of the line

pp. 140-144--German--Lines 400 and 440 change the D in the
   first item to DARE
   Lines 1810 and 1890 change the DIE to DER

pp. 196-208--EE Circuit Design, Part 1--my error, not the
   publishers. The solutions to parts three and four are
   interchanged.*

p. 223--Letter Puzzles--Line 280 should have 64 instead of 65

p. 256--Line 250--there should be two spaces after the "
   ending the first line and the j"
   If you want to be able to press FCTN REDO to start typing
   over, add the following two lines:

   795 IF K=6 THEN 740
   1075 IF K=6 THEN 1020

p. 265--Line 240--fourth data item should have 16 Fs.

p. 274--Line 1320--should have 131 instead of 13131.

* you may obtain a corrested copy of EE Circuit Design of a
copy of Kinder-Art by sending a blank cassette or diskette
and a stamped, self-addressed mailer. (Would any SNUG member
who has these corrections make them available to the library
to save Regena a lot of work. Ed.)

************* IN THE MAIL BOX *************************

Exceltec, Inc. (formerly Sunware Ltd) announced that they have
secured the rights to build the TI EXTENDED BASIC Module and
Manuals. They are offering volume discount to TI User Groups.
The discount is 20% off for 5 or more. Any interest?

We have received a copy of the CorComp Cursor which describes
their first year of existence. (CorComp is in Chapter 11 bank-
rupcy to get them through some financial problems - Ed.)
Problems and solutions with their products are talked about.
There is a section on TI FORTH use and modifications for double-
density, etc. They also request that TI users send their ideas
for new product wants. Send to: New Products, CorComp, Inc.,
1255 N. Tustin Ave., Anaheim, CA 92807. (DO IT! They deserve
the support of the TI Users for their efforts - Ed.)

MYSTERY PROGRAM
EXTENDED BASIC

```
90 CALL INIT
100 FOR A=1 TO 255::CALL LOAD(-31744,-A)::NEXT A
110 FOR A=1 TO 255::CALL LOAD(-31744,A)::NEXT A
120 FOR A=1 TO 255::CALL LOAD(-31744,A)::NEXT A
130 FOR A=1 TO 255::CALL LOAD(-31744,-A)::NEXT A
140 FOR A=1 TO 255 STEP 4::CALL LOAD(-31744,-A)::NEXT A
150 CALL SOUND(100,110,0)
160 FOR 8=1 TO 2
170 FOR A=1 TO 975 STEP 4::CALL LOAD(-31744,A)::NEXT A
180 FOR A=1 TO 255 STEP -5::CALL LOAD(-31744,A)::NEXT A
190 CALL SOUND(1,110,0)
200 FOR A=1 TO 255::CALL LOAD(-31744,-A)::NEXT A
210 NEXT B
220 CALL SOUND(1,110,0)
230 END
```

This program seems to have originated in the A9CUG (Atlanta)
and comes to us from the Southwest Ninety Niners Newsletter.

****

OTHER CURSORS for TI WRITER
by Dave White

Don't forget about the fixed mode cursor on page 44 of
TI-WRITER manual. Often I find it easier to insert a few
characters by switching to fixed mode (CTRL 0), insert char-
acter mode (FCTN 1), then inserting the characters, then turn-
ing off fixed mode (CTRL 0). This eliminates the need for
reformat.

Another special function which seems to be hidden in the
manual is the SPECIAL CHARACTER MODE, referred to on page 146
of the manual. Page 98 describes its use, similar to the
transliterate command. By pressing CTRL U, special printer
control characters may be put into the document, without using
the text formatter. Then the document can be printed directly
from the text editor.

Some common control characters are shown below:

PRESS	FOR
(FCTN R)	escape character
(FCTN R) M	ELITE mode
(FCTN R) P	PICA mode
(FCTN R) 4	italic mode
(FCTN R) 5	italic off
(FCTN R) 0	space 8 lines to the inch
(FCTN R) 1	space 6 lines to the inch
(FCTN R) A (shift R)	1.5 lines to inch
(shift 0)	compressed mode on
(shift R)	compressed mode off

(Parentheses above indicate special character mode.)

Have you tried printing return address labels? Try 8
lines per inch, compressed print format. This will print 4
return labels on one standard size address label.
(This article was from the PUNN. Ed.)

DISKNAME = EDU/MATH-1 AVAILABLE= 125 USED= 233		
FILENAME	SIZE	TYPE
ALGEBRA	36	PROGRAM
ARITHMAGPH	7	PROGRAM
COLORFRACT	26	PROGRAM
COLORMATH	34	PROGRAM
COUNTGULLS	31	PROGRAM
DIVIDE	3	PROGRAM
ELEM-ARITH	21	PROGRAM
FIRSTADDTN	11	PROGRAM
MATH/NS	15	PROGRAM
MATHDRILL	10	PROGRAM
MATHQUIZ	10	PROGRAM
MATHSPEECH	13	PROGRAM
MULTDRILL	12	PROGRAM
SUMMATIONS	4	PROGRAM

DISKNAME = EDUCATION1 AVAILABLE= 8 USED= 350		
FILENAME	SIZE	TYPE
FINGERSPEL	52	PROGRAM
FLAGORAMA	34	PROGRAM
PAST-TENSE	19	PROGRAM
SPANISHTST	5	PROGRAM
SPKSPLFLS1	14	PROGRAM
SPKSPLFLS2	40	PROGRAM
SPKSPLFLS3	41	PROGRAM
SPKSPLFLS4	37	PROGRAM
SPKSPLFLS5	44	PROGRAM
STCAPITALS	31	PROGRAM
VOCAB-QUIZ	16	PROGRAM
XWORLDMAP	17	PROGRAM

DISKNAME = EDUCATION2 AVAILABLE= 4 USED= 354		
FILENAME	SIZE	TYPE
BLDAMX	38	PROGRAM
CHEMSTRYTS	43	PROGRAM
KRUSEB	8	PROGRAM
MORSECODE	1	DIS/FIX 0
MORSEKEYER	10	PROGRAM
PRESIDENT	28	PROGRAM
PROJECTILE	44	PROGRAM
SAFETYQUIZ	37	PROGRAM
SEYMOURMON	21	PROGRAM
SPELLER	12	PROGRAM
WORLDFLAGS	37	PROGRAM
X-IQTEST	43	PROGRAM
XREADFAST	32	PROGRAM

DISKNAME = EDUCATION3 AVAILABLE= 288 USED= 70		
FILENAME	SIZE	TYPE
MUSIC-QUIZ	30	PROGRAM
PRESIDENTS	20	PROGRAM
SPELLTEST	20	PROGRAM

DISKNAME = ENG-DISK1 AVAILABLE= 34 USED= 324		
FILENAME	SIZE	TYPE
ANTENNA	21	PROGRAM
CHI-SQUARE	12	PROGRAM
CRIPTHMETH	11	PROGRAM
DECOMPRESS	16	PROGRAM
ELECTRNICS	27	PROGRAM
FACTORIAL	4	PROGRAM
GRAFTRAX	19	PROGRAM
LINE-EQUAN	9	PROGRAM
LINEAR-REG	6	PROGRAM
MATH-LIB	36	PROGRAM
MATRIX-INV	5	PROGRAM
MATRX-MULT	4	PROGRAM
MMPLOT	13	DIS/VAR 80
MOHRCIRCLE	5	PROGRAM
NTHORDRREG	7	PROGRAM
OVERLNFLOW	46	PROGRAM
P/E/R/T	14	PROGRAM
SIMUL-EQNS	7	PROGRAM
STATISTICS	20	PROGRAM
TOTRESISTN	5	PROGRAM
TREND-LINE	31	PROGRAM
XSNDALGTHM	6	PROGRAM

FIRST CLASS

TO: