



FLUG99ER

JANUARY 1989

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EDITORS: Oscar Smith/Jim Louis

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Next meeting of the Forest Lane Users Group is:

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JANUARY MEETING INFORMATION
By - Oscar Smith

Below are the planned activities for the January 8, 1989 meeting of the Forest Lane TI Users Group.

2:00 - 3:00-BUSINESS MEETING

Reading of the last Minutes
TIBBS report
Welcome New Officers
Membership drive and why it is needed
Suggestions to raise money for the Club
Due increase and why it is being looked at
Newsletter limited to eight pages
Starting a membership phone list
Logo/header for the Newsletter contest
Suggestions for meeting places
Hard copies of inventory from Jimmy Carson and Anthony Warner

3:00 NEW BUSINESS

3:00 - 3:30-QUESTION AND ANSWER SESSION
GIVE AWAYS

3:30 - 4:00-QUESTIONS, HELP, DISK TRADING;ETC.

* * * * *

ASSEMBLE LINES by Richard R. DeNamur Jan. 1988

By special request of Oscar Smith, here I am again. In the past I have written columns on both ASSEMBLY LANGUAGE and on BASIC. This time I figured what the heck and decided to do a column on both.

Not long ago I saw an ad in TRITON for a screen print package. This package included software AND HARDWARE to accomplish the task and, ran about \$40.00. Here are two programs that when run together, will print the BASIC screen using software only. It may not be quite as flexible, but free is a lot cheaper!

First the assembly listing:

```
-----  
DEF  START  
REF  STRASG,VMBR,NUMREF      (NOTE 1)  
*  
START MOV  R11,@BASIC  
      BL   @GET  
      MOV  @NUM,R1  
      SLA  R1,5  
      LI   R2,32  
      S    R2,R1  
      MOV  R1,R0  
      LI   R1,BUFFER+1  
      BLWP @VMBR              (NOTE 4)  
*
```

```

        LI   R1,>68260
        LI   R2,32
        LI   R3,BUFFER+1
LOOP1   SB   R1,*R3+
        DEC  R2
        JNE  LOOP1
*
        CLR  R0
        LI   R1,1
        LI   R2,BUFFER
        BLWP @STRASS          (NOTE 3)
        MOV  @BASIC,R11
        RT
*
GET     CLR  @NUM
        CLR  R0
        LI   R1,2
        BLWP @NUMREF        (NOTE 2)
        CLR  R5
        LI   R1,>834A
        MOVB *R1+,R5
        CI   R5,0
        JNE  GET1
        RT
GET1    SWPB R5
        LI   R2,64
        S    R2,R5
        CI   R5,1
        JEQ  GET2
        CI   R5,0
        JEQ  GET3
        LI   R2,10000
        CLR  R3
        MOVB *R1+,R3
        SWPB R3
        MPY  R2,R3
        A    R4,@NUM
GET2    LI   R2,100
        CLR  R3
        MOVB *R1+,R3
        SWPB R3
        MPY  R2,R3
        A    R4,@NUM
GET3    CLR  R3
        MOVB *R1+,R3
        SWPB R3
        A    R3,@NUM
        RT
*
BASIC  DATA >0000
NUM     DATA >0000
BUFFER  BYTE 32
        BSS  33
        END

```

As briefly as possible, the assy. program works as follows:

- 1) After storing the return address to BASIC, the program branches to the GET routine. This routine converts the NUMERIC variable passed by BASIC from RADIX 100 format to hexadecimal and stores the result in an address labeled NUM. (For further info. see the E/A manual reference NUMREF and RADIX 100.) The number being converted is the line number of the BASIC screen. (More at the BASIC program.)
- 2) (tricky part) The line number is multiplied by 32 via shifting left 5 bits. (I.E. SLA R1,5) Remember there are 32 characters in a line. 32 is then subtracted from the result to yield the position of the first character in the line within the VDP memory.

It works like this:

Line 1.	First char. at pos. 0.	$1 \times 32 = 32.$	$32 - 32 = 00$
Line 2.	First char. at pos. 32.	$2 \times 32 = 64.$	$64 - 32 = 32$
Line 3.	First char. at pos. 64.	$3 \times 32 = 96.$	$96 - 32 = 64$

and etc.

- 3) Using the VMBR utility (See E/A manual) the 32 characters of the line are retrieved and stored in memory at the location labeled BUFFER.
- 4) T.I. in their infinite wisdom offset all display characters in both BASIC and XBASIC by Hex. 60 (Dec. 960). So, the loop subtracts >60 from all the characters stored in memory at BUFFER. This restores them to normal ASCII code.
- 5) Using the STRASG utility (See E/A manual), the result is stored in the STRING variable passed by BASIC (more at BASIC program.)
- 6) The return address to BASIC is restored to register 11 and execution is returned to the BASIC program.

Now for the BASIC program:

```
100 REM      BASIC SCREEN PRINT PROGRAM (E/A CARTRIDGE MUST BE PLUGGED IN).
101 REM      FILES CALLED IN LINE 120 MUST BE ON DISK.
102 REM      PRINTER IS OPENED IN LINE 130. CHANGE TO DEVICE NAME OF YOUR PRINTER.
103 REM      IN LINE 140 "A" EQUALS THE LINE NUMBERS YOU WISH PRINTED
104 REM      ONCE RUN FOR THE FIRST TIME, SUBSEQUENT RUNS CAN BE MADE STARTING AT
          LINE 130.
110 CALL INIT
120 CALL LOAD("DSK1.BSCSUP","DSK1.BSPOBJ")
130 OPEN #1:"RS232"
140 FOR A=1 TO 24
150 CALL LINK("START",A$,A)
160 PRINT #1:A$
170 NEXT A
180 CLOSE #1
```

Remembering that this program was written to run in console BASIC with the E/A cartridge plugged in, line 100 to 104 simply remind the user of this. Line 110 opens the expansion memory. Line 120 loads The Basic Support Utilities (Found on the disk that comes with the E/A cartridge), and the

object file BSPOBJ which is the object code generated by assembling the program above. Line 120 opens your printer. Modify this line to reflect your system configuration.

Line 140 sets up a loop where the variable "A" represents the line number of the screen. As written, all the line numbers of the screen will be passed to the assy. routine one at a time starting with line 1 and ending with line 24. The assy. routine processes the line, returns it in the variable A#, and then prints it. The loop continues until all lines in the loop have been printed. You may modify the limits of the loop to print only those lines you wish to. For instance I like to modify the loop from 2 to 23. This allows me to NOT print line 24 which is the RUN instruction you must enter and, I wait until the last RUN instruction is at the top of the screen before entering another. In this way, the RUN's never show on the printout. Play with it to see what I mean.

As noted in the REM statements, once this program is loaded and run the first time, subsequent runs can be made by entering RUN 130. This avoids reloading off disk each time you want a printout. Lines 170 and 180 should be obvious.

FINAL NOTES:

To convert this program to run with Extended Basic:

1) change line 120 in the BASIC program to:

```
120 CALL LOAD("DSK1.BSPOBJ)
```

NOTE the utilities are contained in XBASIC.

2) Delete the REF statement in the assy routine at NOTE 1.

3) At NOTE 2 in the assy. program, change to read:
BLWP @>200C

4) At NOTE 3 in the assy. program, change to read:
BLWP @>2010

3) At NOTE 4 in the assy. program, change to read:
BLWP @>202c

Good Luck. Have fun. Address any questions which are program specific to this article to me C/O the FLUG users group. Include a stamped self-addressed envelope. I will do my best to answer promptly.

Richard DeNamur.

* * * * *

PLUS!

WORD PROCESSING COMPANION

A Review by Jean Hall

You liked FUNPLUS, you'll love PLUS! Jack Sughrue has created a super DSSD disk (full 714 sectors) of goodies for all to use with Funnelweb, T.I. Writer, BA Writer or Myword.

Print out "PLUS!DOCS" through the FORMATTER first, then print out the four DOCPACKS (12 files) and put them in built-in booklets as suggested by Jack. The docs are well written and explain which DV80 files to print and why. The one/two stroke TIW loaders that are included are terrific and sure make it easier for us the users to write a term paper, write a letter, use condensed print, put graphics in our text with ease and more.

The Multicolumn program is great for all the newsletter editors out there that want to print out a two column page. The directions are easy to follow and it works!!!

You can catalog drives 1,2 or 3 (including RAM) with the CAT program. The INSTALABEL (1), INSTAPRINT (2), INSTADUMP (3), and INSTAMAIL (4) all perform instantly. An example of (1) I print out 500 labels -1 CUP SUGAR- to use on packages of sugar that are broken down for the food pantry to give to one/two person families. (2) will print out any DV80 text or graphic file without using EDITOR or FORMATTER. (3) will dump any non-redefined character directly from the screen to the printer and (4) is a quick hard copy address maker.

The CALENDAR program is wonderful and I now can make a personalized calendar and put in messages on the date I want and the spaces are a nice size.

BANNER prints out a banner that you create by designing your own characters, numbers or pictures. NEAT!!!

3/COL will give you a reduced catalog printout with the date for your disk envelop.

IG!PAY- convert you English words, phrases or sentences to Pig Latin. Kids will love it.

SET-UP- A Star (Epson) compatible printer set-up.

TINYTEENY- the smallest wordprocessor ever. You have to see it to believe it. Can even print on adding machine paper.

PLUS!REVIEW- This fine program can be used to make a presentation. Has many uses.

P!- Want to make you own cursor. Easy with P!.

FNLSTRIP- print out a 4 line console strip of your choice- also TI WRITER strips.

GOTHIC- prints out lovely letters to be used on awards, banner, certificates and etc..

Try PLUS! and you'll have a lot of fun. The DOCS are tremendous and lead you step by step through each procedure. Jack has spent time, effort and money to create this fine disk. He is only asking \$10 for this excellent disk full of goodies. Send check to:

Jack Sughrue
Box 459
East Douglas, MA. 01516

*ARTICLE COPIED FROM THE NOVEMBER 88 ISSUE OF THE "MAD HUG".

And now.....A little Poetry--

Some members keep a club so strong,
while others join just to belong.
Some dig right in, some serve with pride,

some go along just for the ride.
 Some volunteer to do their share,
 While some lie back & just don't care.
 Some always pay their dues ahead,
 some get behind for weeks instead.
 Some do their best, some build, some make,
 some do neither, but only take.
 Some lag behind let things go,
 some never help their club grow.
 Some drag, some pull, some don't, some do,
 CONSIDER WHICH OF THESE ARE YOU!!

Anonymous

** From the Hunter Valley 99ers Newsletter

 -Local BBS Numbers

Orphan Board	817-261-7466	300/1200	8N1
Flug TEXTLINK	214-263-7648	300/1200	8N1
99er Connection	214-233-1750	300/1200	8N1
TINET BBS	817-581-1421	300/1200	7E1

 COMPUTER USERS, MODEM USERS, SYSOPS AND BBS USERS BEWARE!!
 By Cynthia Becker

I have been involved in telecommunications now for a few years, and as a result of it have some of the nicest people I could ever hope to know! It has served as a means of information gathering, learning more about the computer, and sharing a rare kind of comraderie.

Enter the 'HACKER'! Yes, folks, they do exist, and they are still the veritable "thorn in the side" where telecommunications and bulletin board systems are concerned. They think nothing of calling bbs and wreaking havoc by trying to 'crash' the system or erase a data base or tap into closed systems, stealing, if they can, highly classified information. It has been done in the past, and now the terminology 'hacker', has taken on a new shade of meaning.

I am referring to the 'hacker' who, using sophisticated computer equipment, has infiltrated the telephone systems, invading the privacy and security of private phone users as well as company and guarded systems. It was reported in the SEATTLE-POST INTELLIGENCER today (July 22, 1988) that our phone systems are very vulnerable to such 'hackers' as a result of computer-controlled switches replacing electromechanical call-routing equipment. An expert phone network via personal computers. If they know the proper commands, they can eavesdrop, ADD CALLS TO SOMEONE'S BILL, forward calls to another number or keep someone's line BUSY.

The Manager of electronic security operations in San Francisco (PACIFIC BELL TELEPHONE CO.) disclosed the above in a memorandum and in an interview with company officials. He warned that an 'electronic intruder' could disable an entire central switching office for routing calls and could disrupt service to an entire neighborhood! Can you imagine the implications, "organized crime groups or terrorists might use such technology to their advantage", he said.

This memo was provided by a teenage 'hacker' to the New York Times, stating that it had been obtained by a fellow 'hacker' who "illicitly eavesdropped on a facsimile transmission between Pacific Bell offices in San Francisco." Pacific Bell verified the memo as being "authentic", concluding that the number

of individuals capable of entering Pacific Bell operating systems is growing, and computer hackers are becoming more sophisticated. The memo mentioned two 'hackers' who were able to 'monitor each other's lines for fun', and seize another person's dial tone to make calls appear on their bill." Another used his abilities to disconnect and tie up telephone services to people he didn't like, even going so far as to "add several custom-calling features to their lines to create larger bills."

When police searched the Southern California home of a man suspected of breaking into the computers of a Santa Cruz software company, they discovered that he could also gain access to ALL of Pacific Bell's Southern California switching computers!!! They found files containing codes and employee passwords for connecting with the Pacific Bell switching systems and related computers. He also had commands for controlling the equipment. They also reported a former programmer for Sun Microsystems who had done the same thing, but because of certain implications, the case was taken over by the Federal Government because "there are some potential national security overtones."

What we have here is a highly vulnerable and potentially dangerous situation that, if not corrected, could feasibly cause our telecommunications 'hobby' to go down the tubes! A 'hacker' has already tapped into the lines of a Sysop on the East Coast, running up a \$500 phone bill. The sad part of this situation is that this person has accused a member of the TI community for doing it. BBS numbers are a public commodity, and are available for all to see on any system one logs on. Most of the bbs's we call are not 'closed' systems, so I guess all SysOps are opening themselves up for such 'attacks'. So, folks, it's to the honest users of modem and phone equipment to do something about it, else we will have to deal with the possible eventuality of not having the freedom to call a bulletin board. !THINK ABOUT IT!!

Cynthia Becker

PREZ TALK

by Oscar Smith

Well, Christmas has come and gone, the year of 88 has come and gone, and the club is still going strong, least it is at the present. First, let me pause and thanks the officers of 88, a job well done, and to the new officers of 89, let me say "welcome". For those of you that do not know the new officers for the new year please note the front of your newsletter. We, the club, have a lot of things still on the burner for the year and it is going to be a task for the new officers to carry them out. Thanks to all of you who voted for me again this year to be your president. I am looking forward to an easy year, help from each member, and support from the group. As my great grandmother use to say, "The only difference between a stepping stone and a stumbling block is the way in which they are used." We are planning on having more software demos this year since the first part of the year Ron Kuhlman will be tied up with work. If any of you have something that you would like to demo or see demoed please let me know either by message on TEXTLINK or by phone. We also need to dedicate a little more time to the Software Librarian so that he can show us some of the additions to the library. The library really grew last year and many of us fail to keep updated as to the changes. I feel that if given the chance he can show us a few of the additions at each meeting. For those of you that didn't know it, he has hard copies of the Library at the meetings for sale to anyone who desires a copy.

For those of you who would like a fall 88 copy of the Triton catalog, call 1-800-227-6900 and request one. Joy Electronic, here in the Dallas area also has a 8 page catalog that is available by calling 1-800-527-7438. There was a

lot of good to know info in the last issue of Micropendium, for those of you that do not subscribe, you are missing a good source of information.

We have a lot of members who have dues due the first two months of the year of 89. Please renew your membership ASAP. We need to get an idea as to what the total membership will look like. We need for our Membership Librarian to execute some of the ideas for membership drive that the old officers talk over with him. Let's put more support into the club as a whole. Thanks.

We have a few of the Faire 88 shirts and caps leftover and we're having a computer drawing at each of the new two or three meeting to give them away. Jim Anderson is in charge of the drawing and his son wrote us a good program for the occasion. The program was also donated to the Library for all to check out.

Looking forward to seeing each of you at the next meeting. Bring a friend.

Poll

by Jim Louis

Opinion Poll for 1989

I would like to take this time to ask all of the Members and Non Members their opinion of the past year, and their valiant opinion of what they would like to see and do in the next year and upcoming year.

- 1) Do you think that the club did all it could to make the Meetings and club activities the best they could have been?
- 2) Do you think that the Officers did their job for the club to the fullest of their ability?
- 3) Now to the question of the FLUG BBS, what if any, changes would you like to see in the new BBS program that we are now running?
- 4) Respecting to the Newsletter, what kind of material would you as the reader like to see in the year to come?

These are just four questions posed and I would like to see the kind of answers club members will respond with. All of the questions are of importance to the club. This will tell us what you the club body thinks/wants.

To try and answer the question of the newsletter not getting out all of the time, there is only one answer. The input from the club members is not what it could be. To have a quality newsletter we need quality input, so therefore I am asking that you do all you can to help us put out that kind of newsletter.

Please use the FLUG & ORPHAN BBS to upload all of you comments on the four questions that was ask. Your input is very important to us, and you the club members are the heart of the club. Remember that without you there would be no FLUG! All response to the questions please put in a DV 80 file and leave to my attention. Thank You for your cooperation in this matter.

Jim Louis Vice President

THE LIBRARY CORNER

THE FOLLOWING IS THE LIST OF UPDATES TO THE LIBRARY TO DATE. I AM IN THE PROCESS OF CHANGING OVER TO FLIPPIES AND CONDENSING THE PROGRAMS IN THE LIBRARY. I AM ALSO IN THE PROCESS OF MAKING A BACKUP OF THE LIBRARY.

THE SOFTWARE LIBRARY CATALOG IS AVAILABLE AT CLUB MEETINGS IN HARDCOPY FOR \$2.00 EACH, IT IS NOW OVER 25 PAGES LONG.

PROGRAMS ARE PROVIDED BY **COMPLETE** DISK ONLY FOR A SERVICE CHARGE OF \$2.00 PER DISK (YOU PROVIDE THE DISKETTE) OR \$3.00 PER DISK (WE PROVIDE THE DISKETTE).

I WOULD LIKE THE FOLLOWING INFORMATION INCLUDED WITH ANY DONATIONS THAT WE RECEIVE FOR THE LIBRARY. TYPE OF PROGRAM, LANGUAGE AND LOAD, AND A SHORT DESCRIPTION OF THE PROGRAM.

THATS ALL FOR NOW.

SAM

THE FOLLOWING FILES/DISKS HAVE BEEN ADDED OR UPDATED.

AUGUST, 1988

DSKU, COMMUN7000, COMMUN7001, DOCS1000, DOCS1001, DOCS1002, XBSCUT2003, XBSCUT2004.

DISK OF THE MONTH, AUG88DOM, SEPT88DOM, SEPT88DOM--.

SEPTEMBER, 1988

DOCS1001, BASCUT1002, XBSCUT2001, XBSCUT2002, XBSCUT2003, XBSCUT2004, DOCS1000, XBSCMU2600, XBSCMU2601, XBSCMU2602, XBSCMU2603, XBSCMU2604, BASCMU1200, BASCMU1201, BASCMU1202, FUNNELWEB V4.12.

OCTOBER, 1988

XBSCMU2606, XBSCMU2607, BASCMU1202, BASCMU1203.

AS OF OCTOBER ALL OF THE MUSIC DISKS HAVE BEEN UPDATED. THERE HAVE BEEN QUITE A FEW NEW ADDITIONS TO THESE DISKS.

COMMUN7001 (TELC0221), DOCS1000 (TELDOC221), NOV88/DOM,

NOVEMBER 1988

GRAPHS6000, GRAPHS6001, GRAPHS6002, GRAPHS6003, GRAPHS6004, GRAPHS6005, GRAPHS6006, GRAPHS6007, GRAPHS6008, GRAPHS6009, GRAPHS6010, GRAPHS6011, GRAPHS6012, GRAPHS6013, GRAPHS6014, GRAPHS6015, GRAPHS6016, GRAPHS6017, GRAPHS6018, GRAPHS6019, GRAPHS6020, GRAPHS6021, GRAPHS6022, GRAPHS6023, GRAPHS6024, GRAPHS6025, GRAPHS6026, GRAPHS6027, GRAPHS6028, GRAPHS6029, GRAPHS6030, GRAPHS6031, GRAPHS6032, GRAPHS6033, GRAPHS6034, GRAPHS6035

PLEASE SEND ALL CORRESPONDENCE AND
EXCHANGE NEWSLETTERS TO THE CLUB AT:

The Forest Lane Users Group
P.O. Box 743005
Dallas, Tx 75374-3005

FOREST LANE USERS GROUP BBS INFO.
(214) 263-7648 24 HOURS A DAY
300 OR 1200 BAUD

THE "ULTIMATE" BBS -Possibly the most advanced and useful bulletin board in the country for the serious TI 99/4A user. We support QUAD DENSITY with two quad density/double sided drives and two double sided/double density drives. It is based around our own designed disk controller card. We also have one Horizon Ramdisk card, and the MPB clock card. The program itself is possibly the most advanced, most changed BBS around, and it makes use of all TI features--Graphics, Sound, and Color. We also support XMODEM transfers, with over 130 files to download at this time, with many more to come. To log on, just call the number posted above with your modem and press enter. Follow the prompts after you have gotten your user number, you will be upgraded to regular user level within 24 hours or ASAP.

MEMBERSHIP INFORMATION

A Forest Lane Users Group membership includes a monthly newsletter mailed to your home, full access to the FLUG TEXLINK, access to the FLUG software library of public domain and fairware programs, and many other benefits. Annual membership is \$15. For more information Please contact the BBS or drop a card in the mail to the membership chairman.

MEMBER NEWSLETTER INPUT

Please send all newsletter input, articles, copies, pictures, files, or letters to the Editors to Oscar Smith/Jim Louis at the FLUG PO BOX. Disk files are appreciated and they can be uploaded to the BBS. All input must be received by no later than two weeks before meeting date in order to make the deadline.

FLUG MEETING

FLUG meetings are held on the First Sunday of every month at the main TI plant on Central Expressway and LBJ in North Dallas. To get to the plant, take LBJ east from Central Expy, take the first exit which will be Floyd Rd. Follow Floyd Rd. around to the stoplight. This will be Walnut, go through this light unto the next one and turn left into the entrance of TI. You will pass the Texins Activity Center on your right after you have turned off of Floyd Rd. After another 100 feet or so you will come to a stop sign, go straight ahead and you will see a covered walkway on your immediate right. A sign hanging off the end of the covered walkway will read Employment Center. Just park across the street from the covered walkway and follow the covered walk to the SC Cafeteria building. It also contains the TI Health center, the TI Employment center, and other. Take the door on the left, and follow the signs to the conference room in the back of the Cafeteria. The meeting starts promptly at 2 PM, so try and get there on time.

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FOREST LANE T. I.
USERS GROUP
P.O. BOX 743005
DALLAS, TEXAS
75347-3005

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P.O. BOX 1194
FERU, INDIANA
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