

# TIBUG NEWS

## EDITOR'S CORNER

This month, we would like to welcome a new chapter of TIBUG. The group held its first meeting several weeks ago at the Springville Road Library on Old Springville Road, and serves the Centerpoint-Huffman area. This group is scheduled to meet on the 2nd and 4th Tuesdays of each month. For more

information, you may call Mike Hartline at 853-4106.

TIBUG recently held another one of its pizza parties at Big Daddy's Pizza in Roebuck. We had a very large turnout, and everyone had a great time--the group even made a little money on the deal!

### TIBUG LIBRARY

In order to help our members make their selections from our library, below is a complete listing of the tapes and diskettes currently available from the library:

CALCULATION OF PI  
LUNAR LANDER  
ENEMY ATTACK  
INVASION FROM SPACE  
TEXTHELLO  
ROCK,PAPER,SCISSORS  
ACEY DUCEY  
SAN FRANCISCO TOURIST  
MAZE RACE  
CHECKERS  
BARTENDER  
CIVIL WAR  
ANTI-AIRCRAFT GUN  
LET'S LEARN NOTES  
COUNTING LESSONS  
TYPING FOR ACCURACY  
TYPING SYMBOLS  
CONSUMER LOAN ANALYSIS  
REAL ESTATE LOAN ANALYSIS  
INTERPLANETARY RESCUE EX. BASIC  
N-VADER EX. BASIC  
HOME SECRETARY EX. BASIC  
CHECKBOOK BALANCE  
HAMURABI EX. BASIC  
BATTLESTAR EX. BASIC  
FORCE 1 EX. BASIC

TINY PLAN-SPREAD SHEET EX. BASIC  
PLOT EX. BASIC, MEM. EXPANSION  
JOYPLOT AND CIRCLE EX. BASIC, MEM. EXPANSION  
LIFE-LINE TO TITAN EX. BASIC  
WAGONWHEEL  
CLOSE ENCOUNTERS OF THE SIMON KIND  
BLOCK LETTERS  
YAHTZEE  
ANIMAL  
ROBOT JOKES TE II, SPEECH SYN.  
MOTHER GOOSE TE II, SPEECH SYN.  
HAPPY SPELL TE II, SPEECH SYN.  
CARDOSE TE II, SPEECH SYN.  
GENERAL INVENTORY  
FROGGER (JOYSTICK) EX. BASIC  
TI-TLES EX. BASIC  
FINANCIAL STATEMENTS  
ADDRESSES  
TYPING TEACHER BASIC OR EX. BASIC  
DISASSEMBLY BASIC, MINI-MEMORY  
CASSETTE LISTER  
GENEALOGY INDEX VERSION 1  
GENEALOGY INDEX VERSION 2  
SPACE PATROL EX. BASIC  
AMAZING GRACE EX. BASIC  
BEETHOVEN'S NINTH EX. BASIC  
DOGFIGHT POET EX. BASIC  
PHOTON 1  
SOUNDS  
GOLDRUSH EX. BASIC  
LEAPFROG EX. BASIC  
VOCABULARY  
FINGER SIGNS  
MUSIC CREATOR  
MUSIC MEMORY  
ALGEBRA  
(continued on page 7.)

## CAHABA HEIGHTS USERS' GROUP

We meet on the 2nd and 4th Mondays of each month at 7:00PM, at the Cahaba Heights Elementary School library.

Our group now has 33 members-we have added 8 new members since the last publication of the newsletter. Joe Patrick has done an outstanding job as President of our group, but Joe will be turning over the reigns to someone else as soon as an election can be held. Our group was organized around the first of this year.

We continue to have good programs for our meetings. We recently had a demonstration of LOGO, and special programming demonstrations by Barron Bartlett and George Lambert.

The group's tape library continues to grow-although it seems we are having a supply and demand problem. More demand than supply!

At our last meeting we passed out a Needs Questionnaire to be filled out by members. This was done in an effort to find out what kind of programs and services were needed by the membership. We asked 11 questions, most of which were multiple choice. Briefly, here are some of the results:

1) What was your primary reason for buying your TI?

Response was:

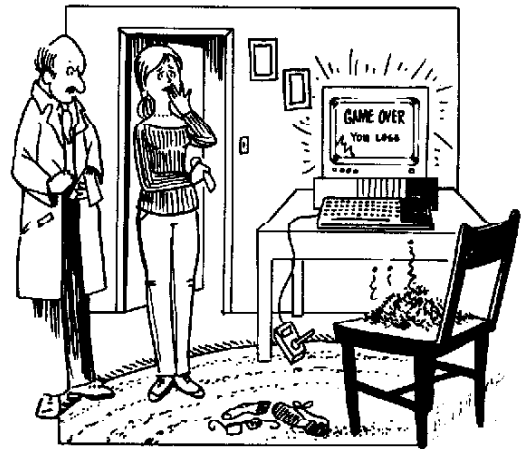
- 6 members said Entertainment
- 8 members said Education
- 9 members said Computer Literacy
- 1 member said Household Management
- 5 members said Job-related homework
- 1 Member said Professional use

2) What peripherals do you currently use:

- 6 members -Per. Exp. Box
- 19 members-Cassette Recorder
- 5 members-Disk cont.drive(s)
- 3 members-RS232 3 members- Printer
- 4 members-32K Mem. Exp.
- 12 members- Speech Synth.
- 14 members- Joysticks 1 member- Modem

3) What types of tapes would you like to see in the Group Library?

- 9 members- Games
- 8 members- Home Financial Management
- 11 members- Educational
- 7 members- Word Processing
- 11 members- Math and/or Scientific
- 3 members- Secretarial and/or tvoino



IT WAS JUST TERRIBLE .... I WARNED HIM  
NOT TO GET SO INVOLVED....!

4) What type of activities would you like to see conducted by this group?

Tutorials:

- 1 member- Designing programs
- 3 members- Educational programs
- 1 member- Basic Programming
- 1 member- Special Programs
- 2 members- Free programs 2 members- Social

This last question was not a multiple choice, therefore we received many different answers.

I think the results of this survey show that we have a wide variety of peripheral use and that the wishes and needs of the group are varied.

We continue to have visitors at every meeting. Visitors are always welcome. Of course, we would like for our visitors to become members. Our annual membership fee is \$15.00 for an individual or \$20.00 for a family.

-BOB JONES

## SPRITE ONE LINER

Want to frustrate and amaze your Atari, VIC-20, Color Computer friends. Just type in the following in the command mode with Extended BASIC.

```
CALL CLEAR::CALL SCREEN(5)::CALL
MAGNIFY(2)::FOR I=1 TO 28::CALL
SPRITE(#I,64+I,16,80,80,3+I,8)::NE XT
I::FOR J=1 TO 5000::NEXT J
```

Hit ENTER and watch all 28 sprites do their tricks. If you want to see it again, simply hit function REDD then ENTER again as many times as you wish.

You can also INSERT, DELETE, etc. to try different speeds, colors, characters, or even add a line number to make it a one line program.

-Barron Bartlett

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## TI BOOKS

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In the May 16 BIRMINGHAM NEWS, the assistant manager of B. Dalton Bookseller at Brookwood Mall was quoted as saying "Texas Instruments computer books have been the most popular at this sort.". How refreshing to finally have a selection of TI books to choose from!

Here is a listing of some of the titles available:

1. KIDS AND THE TI-99/4A by Edward Carlson. \$19.95 Published by Datamost.
2. 36 TEXAS INSTRUMENTS TI-99/4A PROGRAMS FOR HOME, SCHOOL, OFFICE by Len Turner. \$8.95 Published by ARCsoft.
3. 101 PROGRAMMING TIPS TRICKS FOR THE TEXAS INSTRUMENTS TI-99/4A HOME COMPUTER by Len Turner. \$8.95 Published by ARCsoft.
4. USING PROGRAMMING THE TI-99/4A INCLUDING READY-TO-RUN PROGRAMS by Frederick Holtz. \$9.95 Published by TAB BOOKS.
5. PROGRAMS FOR THE TI HOME COMPUTER by Steve Davis. \$14.95 Published by STEVE DAVIS PUB. CO.
6. TEXAS INSTRUMENTS COMPUTER PROGRAM WRITING WORKBOOK by Len Turner \$4.95 Published by ARCsoft(available at BOOKLAND).

Of this list, I think that Steve Davis's book is the best investment. I was also quite impressed by Holtz's book. It is written for the beginner in mind and does not require additional peripherals to run the programs contained within. A 21-page chapter is devoted to explaining and programming graphics.

Another book is available from TAB called TI-99/4A GAME PROGRAMS and is priced at \$10.95 (softcover) or \$17.95 (hardcover).

So visit your local bookstore and look over what's available for the TI.

-Jackie Sanford

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WE WISH TO THANK RON COUNCIL, OF  
ADVERTISING & ART COUNCIL FOR PRINTING  
BUG NEWS.

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## LIFE MAGAZINE WANTS YOU!

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TIBUG has received a letter from LIFE Magazine requesting help in discovering a "computer" family. They want to do an article on home computers and are searching for a family to visit. This family should not be involved with a profession immediately identifiable with computers. That is, they do not want a computer programmer or technician but rather someone who uses programming or computer experience. If you know of a family that "fits the bill", write to:

Linda Gomez  
Time Life Building 31-24B  
Rockefeller Center  
New York, NY 10020

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## TIBUG TUTORIALS

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For the eight of us who attended the free course in BASIC programming during the week of April 25th, it was a very rewarding experience. We attended classes for three hours each night on Monday, Wednesday, and Friday, for a total of nine hours of excellent instruction. On Monday night we were taught how a computer works internally, using binary code to represent the different characters. This is the foundation for understanding computer programming. That night we were given homework to study on the decimal, binary, and hexadecimal codes, and on the methods used in converting from one code to another. For some of us who have not done homework in what seems like a zillion years, it was a very productive experience.

The Wednesday and Friday night classes covered the greater portion of the USER'S REFERENCE GUIDE. These sessions created a good interaction between teacher and students, from which everyone learned a great deal. If the class had been a larger group, instead of just eight, this interaction would not have occurred, so the decision to limit class size was a good one.

I think that our users' group is very fortunate to have such talented teachers as we have. For those on the waiting list for future courses, your wait will be well rewarded, I am sure, and you can look forward to becoming a proficient programmer.

-Allan Cox

## TI BASIC TIPS

Over the past eight months, we've answered many questions dealing with the use of the BASIC language found in the console. In general "TI BASIC" is a very powerful language that can do a great deal of processing in the home. Nevertheless there are times when it appears to be inadequate for certain types of processing. In most cases EXTENDED BASIC will do the job since it is a more complete BASIC language, but often times the console BASIC will do the same types of things!

The following are examples of a few BASIC tricks. Some of these tips are available on "Programming Aids I" from TI; "Handy Dandies" from the group's library; and of course the 99'er Magazine.

### 1. Screen Formatting

In many BASIC languages you have the means to format data to fit in blocks. With 12 digit formats you sometimes have data presented in such a way that it is difficult to read. EX.: \$102.346654348

It would be much better to read \$102.35. It is very easy to do this in TI BASIC with the following line:

```
N=INT((100*N)+.5)/100
```

N=the number that you wish to round off. If you wish to round off to 3 significant digits then use 1000 instead of 100 in the above formula(etc).

### 2. Quick Editing

If you are editing lines of your program, it can be extremely slow to type "EDIT 120"; "EDIT 130"; etc.. You can accomplish the same thing by typing--120 "Down Arrow(function "X")" or 120 "Up Arrow(function "E"). If you want to delete or change three lines in a row you can follow this next example:

```
120 (function "X")
```

Change or delete the line.

```
(function "X")
```

Line 130 now appears on the screen. You can now edit it.

```
(function "X")
```

Continue your editing until you hit "ENTER" or "CLEAR"

3. Display text and data anywhere you want on the screen(Without Scrolling from the BOTTOM).

Use the following short program:

```
500 REM DISPLAY AT FUNCTION
510 REM
520 A$="1020 ANY STRING(TEXT)"
530 REM "10,20" IS LOCATION DATA
540 REM LOOP BELOW DISPLAYS DATA AT
SPECIFIED SCREEN LOCATIONS
550 REM
560 REM SCREEN LOCATION(ROW 10,
COLUMN 10)
570 ROW=VAL(SEG$(A$,1,2))
580 COL=VAL(SEG$(A$,3,2))
590 A$=SEG$(A$,6,LEN(A$)-5)
610 FOR DISP=1 TO LEN(A$)
620 CALL HCHAR(ROW,COL+DISP,
ASC(SEG$(A$,DISP,1)))
630 NEXT DISP
640 REM IF THIS PROGRAM IS USED AS A
SUBROUTINE THEN PLACE A RETURN HERE.
```

NOTE: You will get an error if your text displayed exceeds the right hand edge of the screen.

4. "IF" statements with "AND" and "OR".

In translation of a program from a general BASIC book you encounter a line that reads:

```
45 IF X=10 AND Y=45 THEN 180
```

What do you do?

Well, you could write it as:

```
45 IF X=10 THEN 46 ELSE 50
46 IF Y=10 THEN 180
```

Or you can write it as the following:

```
45 IF (X=10)*(Y=10) THEN 180
```

By the same token to represent the statement with an OR use the "+" sign between the statements as in IF (X=10)+(Y=10) THEN 180.

(NOTE: This information may be found in the USER'S REFERENCE GUIDE page 11-51 paragraph 3)

If you have some suggestions of your own please call Jo Ann or David at 681-5630. May your programming nights be long and fruitful!

-David Grissom

## LARGE LETTERS

Several programs I have seen lately have used enlarged letters. The most recent was "SAY AND SPELL" in the March, 1983 issue of the 99'er. This program used a large amount of coding to generate a 64-character hexadecimal string for each of the 26 letters of the alphabet. This string was then used to create four characters to form an enlarged letter.

The subroutine below can be used to create the 64-character strings necessary with much less effort and coding, and it is not limited to the alphabet. It also works on symbols and punctuation. Because of the CHARPAT command, Extended Basic is required.

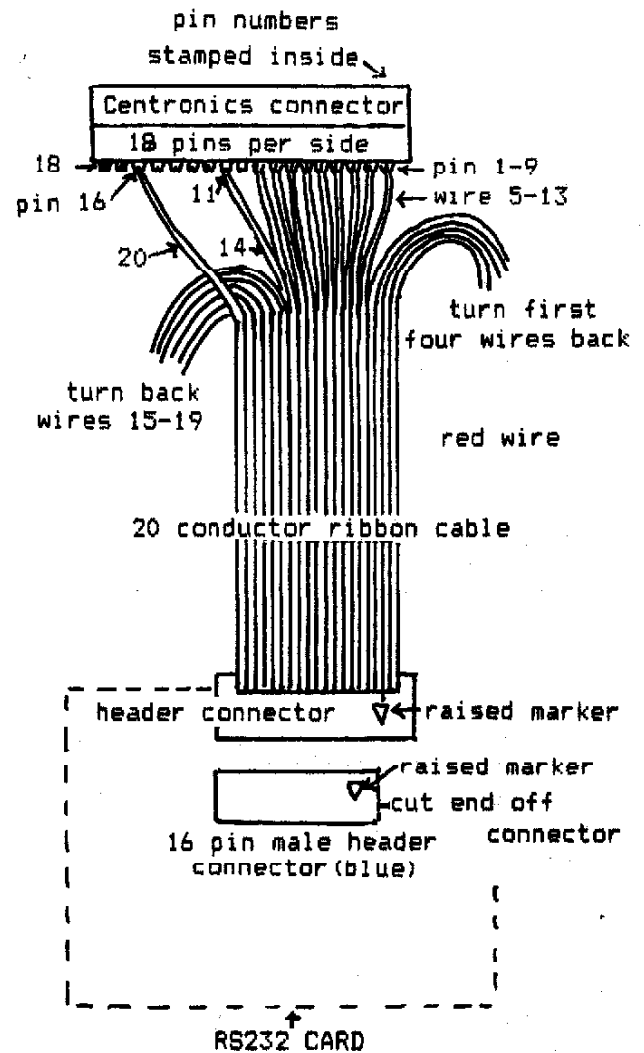
Lines 110-200 are a simple program to illustrate the use of the subroutine which follows. A\$ contains the letter to be enlarged, and the subroutine returns P\$, a 64-character hexadecimal string which can then create the four characters needed to print the enlarged letter.

```

110 CALL CLEAR
120 INPUT A$
130 CALL CLEAR
140 GOSUB 210
150 CALL CHAR(100,P$)
160 CALL HCHAR(12,15,100)
170 CALL HCHAR(13,15,101)
180 CALL HCHAR(12,16,102)
190 CALL HCHAR(13,16,103)
200 GOTO 120
210 ! ***SUBROUTINE MAGNIFY ***
220 IF FLAG=1 THEN 270
230 FLAG=1
240 DIM W$(15)
250 FOR X=0 TO 15 :: READ W$(X):: NEXT X
260 DATA 00,03,0C,0F,30,33,3C,3F,C0,C3,
    CC,CF,F0,F3,FC,FF
270 CALL CHARPAT(ASC(A$),I$)
280 P$=""
290 FOR Q=0 TO 1
300 FOR P=1 TO 16 STEP 2
310 V=ASC(SEG*(I$,P+Q,1))
320 IF V<58 THEN V=V-48 ELSE V=V-55
330 P$=P$&W$(V)&W$(V)
340 NEXT P
350 NEXT Q
360 RETURN
  
```

-George Lambert

## PARALLEL PRINTER CABLE



Required parts available for approximately \$14.00:

- 1 - 20 pin female header connector
- 1 - 36 pin Centronics type male connector
- 1 - 4 foot length of 20 conductor ribbon cable. (attached to header by Forbes Distributors).

To use the above equipment will require removing the end from the male header connector on your RS232 CARD. This could void the warranty, but the only alternative presently is to order a cable from DENALI DATA DESIGN (405) 524-7764 approx. \$40 or CINTRONICS (503) 232-7784 \$30.

-Barron Bartlett

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## TI BUYING INFORMATION

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### FREE PERIPHERAL EXPANSION BOX

This offer is available at K-mart and Video Concepts and through various mail order establishments. Buy any 3 of the following and receive the P-Box free:

Memory Expansion Card  
Disk Controller card  
P-Code Card  
TI Disk Drive  
TI-Writer (Software)  
Microsoft Multiplan (Software)

### FREE SPEECH SYNTHESIZER

Beginning June 1st, purchase any 6 pieces of software OR 3 pieces of software and 1 entertainment value pack and receive the speech synthesizer FREE.

### FREE SOURCE SUBSCRIPTION

Purchase the Anchor Signalman Mark III Modem (89.95 from S.A.V.E.-Atlanta) and receive \$100 SOURCE Subscription free. This offer good for a limited time.

### FLIP-FILE FOR DISKETTES

These sell for \$30 up elsewhere. Computer Supplies, Inc. (4001 2nd Ave So.) sells these handy diskette organizers for \$17.95

### DISCOUNT DISKETTES

10 5 1/4 Diskettes for \$17.95 also at Computer Supplies, Inc.

### 10% DISCOUNT ON TI PRODUCTS

Don't forget that card-carrying members get a 10% discount on all TI hardware and software at ZAYRE on Crestwood Blvd. This mean that you can buy your 2nd or 3rd TI for \$85.00!

### K-MART GREENSPRINGS

See Jeff for great prices on all TI products!

-Jackie Sanford

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## USER'S GROUP CORRESPONDENCE

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We are receiving a growing number of newsletters from other groups and are really enjoying the exchange of information and ideas. Newsletters from the following groups are in our TIBUG library:

The Daytona 99'ers (Florida)  
South Bay TI Users Group  
(California)  
Atlanta 99/4A Computer Users' Group  
(GA)  
Rocky Mountain 99'ers (Colorado)  
Kentuckiana 99/4 Computer Society  
(KY)  
Washington DC Area TI Home Computer  
Users' Group (Virginia)  
JSC Users' Group (JUG) (Texas)

We also have received some wonderful program and several copies of the 99'er from Ed Weist, Texas Instruments Users' Group Coordinator. Everyone that saw Sam Moore's musical programs demonstrated was very impressed. The second diskette we received contained several games that are library favorites: PI-RING SQUAD and TI RESCUE. We are very grateful to Mr. Weist for charing these programs and information with our group. These programs are public domain. I have written Mr. Weist about the possibility of visiting our group in the future. We hope something can be arranged in the fall.

A REMINDER: If anyone is not receiving the TEXAS INSTRUMENTS HOME COMPUTER NEWSLETTER and if you have not given me your name and address yet, please do so immediately so that your name can be added to the mailing list.

-Jackie Sanford



Additional Printing  
and Circulation  
Courtesy of

**Zayre**

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TIBUG LIBRARY  
continued from page 1

THE GAME OF NIMS  
CARS AND CARCASSES II  
TERMITE  
TI TREK  
ICBM EX. BASIC  
DUNE EX. BASIC  
MORSE CODE CHAR. IDENTIFICATION  
MORSE CODE PRACTICE  
SUPER JACKPOT  
SOUND EXPERIMENTER  
TRIGONOMETRY  
BLACKJACK  
UPSCOPE  
HANGMAN  
DIXIE  
TEX-SCRIBE EX. BASIC  
UPSCOPE EX. BASIC  
SPRITE-GENERATOR EX. BASIC  
REM REMOVE  
BATTLESHIP EX. BASIC  
MINER  
PINK PANTHER  
TRAP SHOOT EX. BASIC  
WAR EAGLE  
COORDINATE GEOMETRY

7  
FORCE ONE EX. BASIC  
STOCK TRANSACTION  
DEPRECIATION SCHEDULE  
HOME WORK HELPER-DIVISION  
DODGE'EM,EX. BASIC  
MINI PLAN,EX. BASIC  
GRAPH PLAN,EX. BASIC  
TEACH YOURSELF. EX. BASIC  
MESSAGES AND GRAPHS,BASIC OR EX.BASIC  
TRUCKER'S DOMAIN,EX. BASIC  
PI-RING SQUAD,EX. BASIC  
TI RESCUE,EX. BASIC  
BASKETBALL INST. AND STATS. EX.BASIC  
CHEMISTRY  
TALKING WITH FROGGY  
SPEAK AND SPELL  
FOOTBALL RATING  
BEETHOVEN'S FIFTH  
COUNTY FAIR DERBY  
AIR-SEA BATTLE  
WORD WORLD  
HANDY DANDY  
CONNECT 4,EX. BASIC  
ALPHA-ROLL,EX. BASIC  
SANDWICH SHOP  
CHECKBOOK  
BLOCK LETTERS  
SPACE PATROL,EX. BASIC  
FOOTBALL

APPLICATION FOR MEMBERSHIP

Please complete the information below,  
and return with your check to:  
Jackie Sanford, TIBUG  
709 Nytol Circle  
Birmingham, AL 35210

To join TIBUG-SOUTH, the Cahaba Heights  
group, make your check payable to Steve  
Fahy, and send with your application to:  
Joe Patrick  
3505 Far Hill Rd.  
Birmingham, AL 35243

YES, I would like to be a regular member of TIBUG, and have enclosed my  
check for the annual fee of \$15.00 \_\_\_ for single membership, or \$20.00  
\_\_\_ for a family.

NAME \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY \_\_\_\_\_ STATE \_\_\_\_\_ ZIP CODE \_\_\_\_\_

HOME PHONE \_\_\_\_\_ BUSINESS PHONE (OPTIONAL) \_\_\_\_\_

OFFICIAL USE ONLY:

**TIBUG LIBRARY**  
continued from page 7

**PURCHASED TAPES:**

TI ASTERDIDS	ATTACK MAN
SHUTTLE COMMAND	UTILITIES 1
LUNAR PILOT	FROGGERY
RING DESTROYER	THIEF

NOTE: We have been having some problems with programs being checked out and not returned on time. Please do not monopolize the program over the allotted 30 day period. We may have to start charging for tapes, charge fines, or ask for deposits on library materials unless we receive more cooperation.

You may return your tapes by mail to:

Linda Biddinger  
42 Sunscape Drive  
Birmingham, AL 35215  
(205) 856-0801

**TIBUG  
INFORMATION**

TIBUG is an organization of Texas Instruments Computer owners. We are not a part of the Texas Instruments Company. Dues received by the group is used entirely for the group's benefit.

MEETING NIGHTS: (Irondale) 1st  
Wednesday and 3rd Tuesday of each month.

MEETING TIME: 7:30 TO 9:00 P.M.

LOCATION: Irondale Public  
Library--Irondale, Alabama

The group offers a free software library to members, computer tutorials, and a bi-monthly newsletter as a part of its services to TI computer owners.

**VISITORS  
ARE WELCOME**

**BUG NEWS**

A Newsletter for  
Texas Instruments  
Birmingham Users' Groups  
Rt. 1, Box 539-E  
Trussville, AL 35173  
Telephone: 681-5630 956-5044

TIBUG  
709 NYTOL CIRCLE  
BIRMINGHAM AL 35210



EDITOR--Jo Ann Grissom 681-5630

CENTRAL ALABAMA 99/4 USERS GROUP  
651 LARKWOOD DR  
MONTGOMERY, AL 36109

POSTAGE DUE 17¢