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## THE HUGgers HOOSIER USERS GROUP

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JULY, 1984

THE HUGgers NEWSLETTER

VOLUME 2, NUMBER 4

THE OFFICER'S CORNER\_

Hello, again! June has gone by so quickly....now what was that saying about how time flies?

I know you're all in SUSPENSE waiting and wondering what the phone number of the HUGbbs is. Well, as I promised in the June Officer's Corner I will formally announce the number this month. I won't keep you in suspense any more! The phone number of the HUGbbs is...(317) 631-994A. The HUGbbs is on-line 24 hours, however, it may be down for the 2nd Sunday of the month meeting.

I have received the new software from Frank Continolo (of Caltex Software) and it should be on-line before the July Monthly Meeting. new version will have Up and Download features and a TI Technical File; all of which will be accessed by current, active members only. Up and Downloading is done in Extended BASIC with a disk system, only. A Reference Guide for the HUGbbs will again be available at this meeting Cincludes instructions for Up and Downloading and the listing for the Dataloader (Dataloader II is used for file transfer to and from the HUGbbs). (Dataloader II is also in the HUGger Library on Extended-5.) Private passwords for access to the Technical File and file transfer will be printed on the first line of address label on your July or August Newsletter (active members only!).

The Home Computer Show which was to be held at Glendale Mall July 6-8 has been cancelled. Glendale management said the lack of retail participation was the reason for the cancellation. I would like to thank the members who had volunteered to operate a club booth.

That's it for this month's Officer's Corner. See you at the July Monthly Meeting and the HamFest! Have a safe and happy Fourth of July holiday, and may the FORTH be with you! J. Steven Sims

NEXT MEETING WILL BE JULY 8, AT 2:00 PM AT CREATIVE LOGIC.

DEMO: MICROSOFT MULTIPLAN

Regional Meetings:

East: July 19, at 7:30 pm.

South: July 14, at 2:00 pm.

See Regional News on Page 2 for meeting locations.

SOUTH-SIDER'S: Note: Meeting date has been changed to the 2nd Saturday of July...Mark your calendars!

EAST-SIDER'S: Note: Meeting time has been changed to 7:30.

Indy HamFest

July 8

at the

Marion County Fairgrounds

DIAL—A-HUGger — For those who participated in this first Edition of the Dial—A-HUGger Modem Directory, they will be ready for pick—up at the July Meeting.

FORTH MANUALS -- There are a limited number of TI FORTH Manuals still available for sale. They will be available at the monthly meeting for \$20.00 each.

#### HAPPY BIRTHDAY!

A Happy Birthday to these July, 1983 members!!! Bill Mehalik, Kevin Wenger, Terrence Yen, Daniel Fisher, Jim & Pat Solenberg, Walter C. Kuester, John Coghill, Jr., Philip Kurtz, Theodore Richart, Murl Cahn, Brenda Richmond, Bob Manville, Robert Loughery, Jim Ellis, Mark Blaydoe, Marge Rickman, Rob Wilson, Scott Wilder, Steve Willkins, Don Donlan, Don Hufford, Mike McDonald, and Mark Hand.

#### WELCOME!

Welcome to these new Hoosier Users Group Members! Bill Moody, and David Armock...

#### REGIONAL NEWS

#### EAST SIDE REGIONAL NEWS

The next East Side meeting will be held Thursday, July 19 at Little Peoples Prep School starting at 7:30 p.m. Little Peoples Prep is located at 6040 East Pleasant Run Parkway. (East Pleasant Run Parkway & Arlington). Please use the Pleasant Run Parkway entrance; there are several doors to the building, but this will be the only one open.

If you heed directions to Little Peoples, please, call. My, phone numbers are: Home: 353-1862, and Office: 357-9031.

Don Lang

#### SOUTH SIDE REGIONAL NEWS

We originally thought that the nice weather of summer would make a week-day evening more desirable for the South Side meetings. Since we changed to week-day evenings, our membership has dropped off substantially. We will try returning to Saturday afternoon to see if more members are available.

The next meeting will be on Saturday, July 14, 1984. The location will still be my home at 4582 Moccasin Pl., Greenwood. Meeting time is 2:00.

Give me a call at 881-5918 if you have any recommendations for meeting times or subjects that you would like to cover at a future meeting.

#### 99'ers USERS GROUP ASSOCIATION

Review by Bill Cagle

At the last Officer's meeting, a letter was introduced from the 99'ers Users Group Association. The 99'ers UGA was created to "forward accurate information to the Users Groups after TI made their historic decision to leave the home computer market". Their Newsletter is sent to Users Groups in Australia, Europe, Canada, South America and the whole United States. The founders of the 99'ers UGA, are succeeding in becoming an international clearing house of information about the TI Home Computer.

UGA Newsletter has The 99'ers programs, programming tips reviews and factual information about the TI computer. Regular articles will be Peterson, of Jim Software (on 8ASIC and Extended BASIC), and John Phillips, of DLM Software, [author of TI's Moonmine and Hopper; and the TI home Computer formerly of Division] will write abou t Language and associated Extended BASIC CALL routines. A sample of the fine articles which comes from the 99 ers UGA Newsletter -- Double-Sided Forth -- (by Jim Vincent, 99'ers UGA Midwest Regional of the and President Cooridnator Milwaukee Area 99/4 Users Group) is HUGger reprinted elsewhere in the Newsletter.

Subscriptions of the 99'ers UGA Newsletter are available on an individual basis for \$10.00. This is an excellent Newsletter packed with articles that will interest the novice and serious TI'er alike. You will get more than your moneysworth from a subscription to this Newsletter. If you would like to subscribe to the 99'ers UGA Newsletter, please send a check or money order for \$10.00 to:

99'ers Users Group Association ATTN: Don Veith 3535 S. H St., #93 Bakersfield, CA 93304

(The 99'ers UGA Newsletters we have received will be available for viewing at the July monthly meeting.)

June 23, 1984

Creative Logic Equipment Co. 8240 Indy Lane Indianapolis, IN 46224

Dear Sirs:

On behalf of all the members of the Hoosier Users Group (TI HUGgers), we want to thank you for your hospitality and concern in allowing us the use of your facilities for our meetings.

The members who have attended our meetings so far in your convention facility have been very impressed with the quality and conveniences of your meeting area. The snack area and the spaciousness of your meeting area have caused a lot of favorable comments from our membership.

We hope that the relationship between Creative Logic and the HUGgers will be a pleasant and long-lasting one. We hope, therefore, that if there are ever any questions or potential concerns between your business and us, that we can address them quickly to your satisfaction.

Again, please accept the gratitude of all our members for your generosity.

Sincerely,

Officers of

Hoosier Users Group P. O. Box 2222 Indianapolis, IN 46206

cc: Editor, THE HUGgers NEWSLETTER

#### KIBBIT INSTRUCTIONS

## By Greg Goodwin

Kibbit is a TI FORTH graphics program which draws from the Keyboard or joysticks. Please note: this is a revised version the Kibbit program which is saved on the FORTH DEMO disk in the HUGger Library.

THE KEY FUNCTIONS OF KIBBIT ARE:

CR: Clears the current work screen. Space Bar: Aborts program.

Fire Button (or "Q"): Toggles Graphics modes.

A sprite will appear on the tip of the

line. The letter is the current mode.

D: Draw

U: Undraw

T: Dtog (If line undrawn else draw one.)

Either joystick or keys may be used in drawing (make sure the alpha lock is up!).

If you have any problems getting this version to run, leave me a message on the HUGbbs or thru the Users Group P.O. Box (also let me know what you think of it). A future version will include the saving of screens, and mixing with user programs.

Forth....Write.....Greg,

## FUNCTION 7 \* USERS AID KEY

The following article was reprinted from "99'er News" Newsletter of the Wiregrass 99/4 Users Group, of Enterprise, Alabama in our Newsletter Exchange Program.

When you connect a second disk drive to your TI-99, you might run into some problems using it with programs, such as MultiPlan. At least that was Bubba DeJarnette's experience. But being resourceful, Bubba got onto the telepone (Yes, 1-800-TI-CARES i s still operation, I just got of the phone to them), and asked what the problem was. TI responded that the instructions in the disk controller manual were wrong, and sent him a new page with instructions for his disk drive. They also sent a new termination resistor to install in the #1 drive.

So if you're having difficulties with your #2 drive, call TI at 1-800-TI-CARES and ask them to send you the new instructions and a free resistor pack.

## KIBBIT REVISED

By Greg Goodwin

(KIBBIT by G. Goodwin) 50 VARIABLE JOY 50 VARIABLE JRT 0 VARIABLE SELECT HEX 3800 SSDT : INIT\_TURTLE 8050 2828 2828 1000 8A SPCHAR 8040 2424 2424 1800 8B SPCHAR 8040 2010 0808 0800 8C SPCHAR 22 22 5 8C 1 SPRITE ; DECIMAL : KIBBIT INIT\_TURTLE GRAPHICS2 BEGIN 1 JOYST CASE 04 OF -1 JOY +! ENDOF 252 OF 1 JOY +! END OF ENDOASE CASE 04 OF 1 JRT +! ENDOF 252 OF -1 JRT +! ENDOF ENDOASE 18 = IF 1 SELECT +1 ENDIF SELECT 2 CASE 0 OF DRAW 138 1 SPRPAT ENDOF 1 OF UNDRAW 139 1 SPRPAT ENDOF 2 OF DTOG 140 1 SPRPAT ENDOF 3 OF 0 SELECT ! ENDOF ENDOASE JRT a JOY a 1 SPRPUT JRT @ JOY @ DOT ?KEY 13 = IF GRAPHICS 2 ENDIF ? KEY 32 = UNTIL TEXT : KIBBIT :S

#### Double Sided FORTH

By Jim Vincent

## Midwest Cooridnator 99'ers Users Group Association

So you have double sided disk drives on your TI 99/4A. When you got your copy of TI FORTH from the user group you immediately tried copying it to a double sided disk using the Disk Manager II, didn't you? Didn't work so hot did it? Well, this article will show you what to do to make TI FORTH work with your double sided drives.

TI FORTH uses direct sector addressing to read/write screens to disk. Each screen is 1024 bytes or four single density sectors long. To be compatible with the Disk Manager module and normal file 1/0 for initial loading of the FORTH program, the FORTH disk uses the standard disk header and directory sectors. Since there are only three files on the disk, this means sectors zero through four are allocated to this overhead operation. The first file, FORTH (actually just a short assembly language loader program begins in sector 22 (hex) as usual. It is followed by the actual FORTH program file which is also handled via normal I/O routines and occupies up to sector 4C. SYS-SCRNS occupies all remaining sectors on the disk, for single sided thats 138 (hex). Thus the file SYS-SCRNS takes up not only the sectors from 4D to the end of the disk, but also has an extent that takes up sectors 5 to 21 (hex).

Now since TI FORTH uses direct sector addressing, it expects screen 3 (the boot screen to be in sectors C thru F. If you use Disk Manager to copy these three files from a single sided disk to a double sided disk, the Disk Manager is able to put the whole SYS-SCRNS file on disk contigously. No extents are required, thus what was at sector 5 to 21 is now at sector 168 to 184. It is any wonder FORTH acts strange? The boot screen only contains garbage!

To remedy this situation we must copy a single sided disk, sector for sector to a double sided one, and then doctor sectors zero and four to comply with the Disk Manager's standards. Then to use the extra capacity we will update a couple screens. Your first step however, must be to initialize a double sided disk using the Disk Manager II. Next load FORTH and set DISK\_LO to zero. Load the -COPY screens and use the command FORTH-COPY to dupe your single sided FORTH to the double sided disk. If you don't have two drives, use Disk Manager to copy all three files but then use FORTH to copy screens 1 thru 9. Here's the technique:

n BLOCK UPDATE ( where n is screen number to be read from old disk) FLUSH ( writes screen to new disk, move up to 5 screens at a time)

Now, edit screen 3 to add the following commands:

180 DISK\_SIZE ! ( supports double sided capacity per disk)

360 DISK\_HI ! ( supports two double sided drives)

Next time you boot FORTH it will recognize screen 175 as part of disk 1 and screen 185 as part of disk 2. Now let's fix the commands in the -COPY screens. Edit screen 39. The value 90 appears once in DTEST and twice in FORTH-COPY. Change all three occurances to 180. Next edit screen 40 with the following:

Line #	Current Contents	New Contents
3	168	200
<sup>.</sup> 5	2000	2028
5	12 + 26	12 + 0201 SWAP ! DUP 14 + 24
10	165	2CD
13	4016	802C

Now let's make our FORTH disk compatible with Disk Manager II. Here's the word you need to do it:

HEX

: DOUBLE-FORTH 0 BLOCK UPDATE DUP A+ 200 SWAP ! DUP 10 + 2028 SWAP ! 12+ 0201 SWAP !

1 BLOCK UPDATE DUP E + 2A0 SWAP ! DUP 1C +4D20 SWAP !

DUP 1E + 2805 SWAP ! 20 + F029 SWAP ! FLUSH ;

DECIMAL DOUBLE-FORTH

Now that you have full use of your double sided drives I'd like to issue a couple of challenges.

Figure out how to alter the FORTH command FORMAT-DISK to format a double sided disk.

2. Alter FORTH to support CorComp's double density controller.

Good Luck !

## BEST OF THE NEWSLETTER!

# HEART AND SOUL OF PERSONAL RECORD KEEPING, PART III

by Don Donlan

```
100 REM
           INSERT THE P-R-K COMMAND MUDULE AND USE THE SUBPROGRAMS THAT ARE
110 REM
           RESIDENT THERE TO CREATE TWO SEPARATE DISK FILES: ONE IS THE
           P-R-K HEADER RECORD THAT DESCRIBES THE STRUCTURE OF THE DATA;
120 REM
130 REM
           THE OTHER IS A FILE OF THE DATA ITSELF.
140 REM BEFORE LOADING THIS BASIC PROGRAM.....
           EXECUTE THE FOLLOWING THREE BASIC COMMANDS:
150 REM
160 REM
                   > CALL FILES(1)
170 REM
                   > CALL P(10000)
                                    [To prepare a data area.]
180 REM
                  > NEW
                                    [To clear out any old data.]
          Now load and run the following program. Each line will be followed
190 REM
           by a comment about the purpose of that statement,
200 REM
220 CALL L("DSK1.PRKFILE".C)
                             REM Load data file into reserved area.
230 IF C=0 THEN 650
                              REM Check error indicator: 0=fallure, non-0=0.K.
240 OPEN #1: DSK1.PRKHEADER", RELATIVE, INTERNAL, OUTPUT, FIXED
                             REM Read the internal file name.
REM Read the number of fields per record.
250 CALL H(1,1,0,F$)
260 CALL H(1,5,0,F)
270 CALL H(1,6,0,R).
                             REM Read the number of records in the file.
280 PRINT #1:F*,F,R
                             REM Write Header File record.
290 PRINT F$;F;R
                              REM Print this information on the screen.
300 FOR I=1 TO F
                              REM Begin a loop to write field definitions.
310 CALL H(1,9,1,F$)
                              REM Read the field name.
320 CALL H(1,10,I,T)
                              REM Read the field type.
330 CALL H(1,11,I,W)
                              REM Read the field width or size.
340 IF T()1 THEN 370
                             REM Field is alpha (TYPE is not equal to 1)
350 S=S+W+1
                              REM So add width + 1 to record size.
360 6010 380
                              REM Then skip around next lines of code.
370 S=S+9
380 CALL H(1,12,1,D)
370 S=S+9
                              REM With numeric field, add 9 to record size.
                              REM Read the number of decimal places.
390 PRINT #1,REC 1:F$,T,W,D
                              REM Write this information to HEADER file.
400 PRINT F#:T:W:D
                              REM Print this information to the screen, too.
410 NEXT I
                              REM Return to write remaining field definitions.
420 CLOSE #1
                              REM Close the HEADER; open DATA file when done.
430 OPEN #1: DSK1.PRKDATA , SEQUENTIAL, INTERNAL, OUTPUT, VARIABLE S+2
440 FOR I=1 TO R
                              REM Set up a loop to read records and print DATA.
450 PRINT I
                              REM Print record number to the screen.
460 FOR J=1 TO F
                              REM Set up a loop to read fields in each record.
470 CALL H(1,10,J,T)
                              REM Read the field type.
480 IF T=1 THEN 540
                              REM Determine if field is alpha or numeric.
490 CALL G(1,I,J,C,D)
                              REM For numeric, retrieve data in a numeric var-
500 IF C=0 THEN 520
                              REM If 'missing data' code is not 0,
510 D=-9.99999999999E+127
                              REM enter a default value that can be tested for;
520 PRINT #1:D:
                              REM otherwise, print the numeric data to the file
525 PRINT D:
                              REM and to the screen.
530 GOTO 590
                              REM go around the lines that handle alpha DATA.
540 CALL G(1,I,J,C,F$)
                              REM Retreive character data into a character var.
550 IF C=0 THEN 570
                              REM If 'missing data' code is not 0,
560 F$="?"
                              REM enter a default value that can be tested for;
570 PRINT #1:F$:
                              REM otherwise, print the alpha data to the file
580 PRINT F*;" ";
                              REM and to the screen (with an additional blank).
590 NEXT J
                              REM Go to the next field within the record.
                             REM Finish by printing the entire record to file.
600 PRINT #1:"@"
610 PRINT
                              REM Finish pending print to the screen, too.
                              REM Go on to process the next record in the file.
620 NEXT I
                              REM Close the DATA file.
630 CLOSE #1
                              REM Stop or End program execution.
640 STOP
650 PRINT "ERROR IN LOADING PRK FILE." REM Error message if load fails.
660 STOP
```

#### HOOSIER USERS GROUP DIRECTORY

#### HOOSIER USERS GROUP OFFICERS

## President.....Steve Sims 631-7255 Vice-President....Bill Cagle S etary.....Barb Uhrig 357-8268 Tilasyrer......Bill Jones

#### COMMITTEE CHAIRPERSONS

Reni	ional	Cente	PEI

North.....Position Open South.....Dennis Sherfy 881-5918 East........Don Lang 353-1862 West.....Position Open

Documents......Don Donlan 882-4544
Membership......Pam Sims 631-7255
Newsletter.....Pam Sims 631-7255

#### MEETING LOCATION

Creative Logic 8240 Indy Lane Indianapolis, IN 46224

(About 1800 North Country Club Road)

## NEWSLETTER EXCHANGE

The Hoosier Users is participating in ¿ lewsletter Exchange program with other recognized TI Users Groups. offer is made with the This understanding that, with credit, your Users Group can reprint articles from the Hoosier Users Group Newsletter, and with proper credit, we can reprint articles from other recognized ΤI Users Groups Newsletters.

#### LIBRARY LISTINGS

Library listings can be ordered for \$.25. Please send a self addresed envelope with \$.37 postage to our P.O. Box.



## HUGBBs INFORMATION

317-631-994A

The HUGbbs operates on a 24 hour basis, except on the 2nd Sunday of each month.

SPONSOR THE HUGbbs: Any member or retail business can sponsor the HUGbbs. For a \$10.00 donation, you get 5 (40 column) lines on the Log-On Title Screen for a week (or for a \$20.00 donation, you get 10 (40 column) lines) plus a 24 line by 40 character ad in the Sales option of the File Module. To sponsor the HUGbbs, send a check or money order to our P.O. Box (or turn in at our Monthly Meeting) specifying how many weeks (and how many lines) you want to sponsor, your name (or company name), address, phone, what you want to say, and the week (and an alternate week) you want the ad to appear.\*

## NEWSLETTER "REGULAR FEATURES"

The following is a list of regular features which are a part of the HUGger Newsletter each month. The appearance of regular features in the Newsletter is dependent upon the response of the membership.

Things TI Never Told Us: A feature which is based on quirks of the TI home computer and related software and hardware.

Function 7 \* Users Aid Key: Function 7 is a question and answer feature for your TI home computing problems and suggestions.

Go Forth!: A technical Q & A column designed for users of the programming language, TI Forth.

## BACK ISSUES

Back Issues purchased at the monthly meeting is \$2.00 each. Mail order price is \$2.50 per Newsletter (postage included). Orders will be filled within 3 weeks of receipt by the Documents Committee.

## ADVERTIZING POLICIES

There will be no charge for advertisements submitted to the HUGger Newsletter by members (for private sale only). Format for the advertizements is 45 characters wide by 10 lines long. The Ad should be typed or hand printed exactly how it is to appear in the Newsletter. Deadline for an ad to appear in next month's Newsletter is the 2nd Saturday of the month.\*

For companies who wish to advertize in the HUGger Newsletter, our rates are as follows:

Pre-Printed Inserts (one page) \$20.00

One Full Page (one sided) Ad: \$25.00

One Half Page Ad: \$13.00

One Guarter Page Ad: \$7.00

All ads must be in a ready to print condition. Advertisements must be in our P.O. Box before the 2nd Saturday of the month to appear in the following month's Newsletter.\*

#NOTE: The Officers of the Hoosier Users Group reserve final approval on all advertizements submitted for the HUGger Newsletter and the HUGbbs. The Officers and the Newsletter committee are not responsible for typographical errors due to illegible advertizements. All proceeds are accepted as donations to the Hoosier Users Group.

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Bulk Rate
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## ADDRESS CORRECTION REQUESTED

HOOSIER USERS GROUP
P. O. BOX 2222
INDIANAPOLIS, IN 46206-2222



# APPLICATION FOR HENBERSHIP

Below you will find an application for membership to the Hoosier Users Group. Active membership entitles you to the NEWSLETTER, TRADING POST, attendance and voting rights at regular club meetings, access to the HUGger Library of Programs, special club activities and special guest speakers, etc. Subscribing members will receive the NEWSLETTER only.

Make check or money order payable to HOOSIER USERS GROUP. Send completed application to:

HOOSIER USERS GROUP
P. O. Box 2222
Indianapolis, IN 46206-2222

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