June 1987   THE HUGgers NEWSLETTER   **Volume 5, Number 3**

OFFICER'S CORNER

Sunday, June 14 is the next HUG meeting at St. Ann's School. Map showing location of St. Ann' School is on the next to last page. If you require more specific imformation, please contact a HUG officer.

Remember St. Ann's is providing HUG a place to meet, be respectful, be courteous, and keep conversations from becoming disturbing to others at St. Ann's School and in the HUG (nuh said)!

Steve Sims has upgraded one of St. Ann's TI 99/4A consoles to 32K and included a TI LOGO II software package. HUG members are requested to donate educational modules they are no longer using to St. Ann's School for grades 1 through grade 6. The console upgrade and software donation drive are HUG exchange with St. Ann's for providing us with a place to meet rent free.

HUG received a **CorComp Cursor** newsletter annoucing three new products. The first is WriteEase Word Processing and Spell Check Dictionary. The second is an enhanced Version 3.0 Memory Plus Ramdisk Manager. The third and most exciting product is the "REAL TI/IBM Software Connection". This product provides the "REAL" and practical transition of MS-DOS, while still maintaining the use of your TI 99/4A! Basically this program allows users of TI and IBM computers to transfer word processing files easily between the two computers. The "REAL TI/IBM Software Connection" requires the Corcomp disk controller and double sided, double density disk drives. All three products are available through all authorized Corcomp distributors. **THANKS CORCOMP** for your continuing support of the TI 99/4A!

EDU-COMP, 6516 O'Henry Circle, North Ridgeville, Ohio 44039 (216-327-6579) lists Corcomp products in their current catalog.

An RLE Graphic picture, printed using a using **TI-ARTIST** program and the **PROWRITER 8510AP** printer.

JUNE'S WORKSHOPS:

Steve Sims - Soldering techiques

Funnelweb & MENU 6.3 system disks prepared by Wm. M. Lucid

William M. Lucid, V. P.
Hoosier User's Group

NEWSLETTER GLEANINGS
by Jim Ellis

First, I would like to say, please don't let our newsletter become someone else's newsletter. Submit articles or hints to the editor. Keep out newsletter our own original creation. I see so many of the other letters that I review that contain only reprints of someone else's letters without having anything from their own members except maybe the treasurer's report or what color tie everyone wore to the last meeting. I don't think that is why we started the newsletter, or do you? I wish that some of the information that other newsletters print were better checked and verified before putting it all over the country. If enough wrong misinformation gets around we are going to start losing our credibilty as to how accurate some of the other items, etc. are when they are published. I realize that is always room for errors when man is involved, but how long does it take to call the TI-CARES line to check on something before putting it in your newsletter?? Enough of the soapbox, I find much to write about and don't know where to start. On the construction side, there is an article on how to build a 32K plus 8K memory card for the P-box. It is pretty straight forward but doesn't say where to get the board. It DOES use low current chips, not those high power DRAM units. I see a lot of articles stating that if you CALL LOAD(-31878,0) that XB programs will run faster. This works on the old version of XB, because version 110 already has -31878 set to 0. This is the location containing the number of sprites available in XB, so you can see that sometimes you would not want it set to 0. How about a high speed cassette loader for those of you that still use cassette. A program written by Clyde Colledge does just that. It loads your normal program in just half the time it would take normally. The program uses the very same commands as TI cassette routines. Also, it stays in memory even if you hit 'FUNCTION QUIT'. Just enter "CALL LINK("ON")" and you are ready to go. You have to turn the power off to get rid of it. This program may be had from the West Penn 99'ers group. Now a reminder of something that perhaps many

of us already know but forget that it is there. There is a peripheral with 8K that is available to you from Mini-mem. It is called EXPMEM1. It is not told about in the manual, but they tell about EXPMEM2. Now, tell me really, doesn't the fact that it is followed by a '2' cause you to wonder if there isn't a '1' file somewhere?? Well, there is. It is located in the 8K of low memory section of the 32K card. Whereas, EXPMEM2 is located in the 24K high memory section of the same card. One word of caution, if you have something stored in this area, you cannot use 'CALL INIT' or it is GONE. You can use it as a small file area and define all parameters just as you for disk. Well, with that little tidbit, I'm finished for this session.

LIBRARY BITS
by Dennis Sherfy

The primary expansion of our library has been in the area of Freeware. Fortunately for us, there is a continuous flow of new programs marketed under the Freeware concept. When these programs are added to our library, they become available to our members who, hopefully, will compensate the program creators for programs they find usefull.

FREEWARE 26 contains a DIS/VAR 80 file listing many Freeware programs available today, along with a brief description of each program. This file can be printed with TI WRITER and will inform you of many (but not all) Freeware programs available today.

TI ARTIST is a graphics program that is popular with many of our members. In addition to being able to create your own computer graphics with this program, there is a growing list of ready-made graphics available. Our library contains four disks called TI ARTIST1 through TI ARTIST4 each of which contains 14 pictures which can be used with TI ARTIST. These pictures can be viewed on the screen, or can be reproduced on your printer in three sizes of magnification.

These graphics can be used "as is", or they can be modified with TI ARTIST. You can add text to some of the graphics to make interesting signs or cartoons.

TAMING YOUR GORILLA
by Jim Ellis

Do you have one of those? It just won't do what you want it to! Well, perhaps I can help. After some time spent looking through the manual, (if you don't care what you call it), I found that I didn't know anymore about my son's gorilla than he did. I called Leading Edge some time back, and they sent me a program that supposedly would help, HELP! Recently, I purchased a book from Radio Shack that had been marked down, (the only time to buy), that contained information on their many various assorted printers. Oh, hadn't I mentioned we're talking about the Gorilla Banana printer? Well, it seems that many of the printers may have several things in common even though made entirely for someone else. To get on with why I'm writing this article, I have made some discoverys that may help some of you in your effort to use the Gorilla for something besides a paper weight. First off, I don't know if the serial and the parallel versions are the same or not. The one we have is the serial version. You can get what looks like a European/special characters set by using PRINT CHR$(n). where n has a value from 160 to 191. This I found by trial and error, but was pointed out in the book on R/S printers. If you are interested in all points addressable graphics, (why else did you buy it?), I discovered by studying the listing that Leading Edge sent me and the R/S book some interesting commands as follows:

CHR$(8) - Enter graphics mode
CHR$(15) - Reset to normal (10 cpi)
CHR$(28),CHR$(n1),CHR$(n2) - Repeat print data, where n1=number of desired character to be printed, and n2=ASCII value of the character desired printed.

For instance, PRINT CHR$(28);PRINT CHR$(200);PRINT CHR$(193), will print a double line useing the 1 and 64 dots, the 128 is added to tell the printer of the correct graphics code. It should not do anything if you gave it 65 only. Characters are 7 dots high by 6 dots wide giving 480 dot columns per 8.5 inch page. Now to determine the column number, which ranges from 128 to 255, we use the

following format.

```
 1          X
 2          X X
 4          X   X
 8        X       X
16      X            X
32    X                 X
64 XXXXXXXXXXXXX
            /|||||||
           /  |||||||
          /   |||||||
same as      ||||||--64+128=192
right side   |||||---32+64+128=224
             ||||----16+64+128=208
             |||-----8+64+128=200
             ||------4+64+128=196
             |-------2+64+128=194
             --------1+64+128=193
```

Upon entering graphics mode the range of values needed to tell the printer what to print is from 128 (blank) to 255 (a column of 7 dots). If the printer has incremental line feeds, I have not found out that information as yet. To get you started here is a little program that will print out all of the possible dot column combinations.

```
10 OPEN #1:"RS232.BA=1200"
20 PRINT #1:CHR$(8);
30 FOR X=128 TO 255
40 PRINT #1:CHR$(X);
50 NEXT X
60 PRINT #1:CHR$(15);
70 PRINT #1:"NOW LOOK AT THE COLUMNS
CLOSELY TO SEE HOW THEY CHANGE."
80 CLOSE #1
```

You must use the proper statement when talking to your printer if you are using another basic, just make the proper changes to converse with your printer port and baud rate. I hope that this will help someone who has not been able to use these features before. I know how trying it has been for my son. If you have any questions just let me know on the HUGbbs or at the meeting.

SOUTH REGIONAL MEETING

The South Regional meeting will be held on Wednesday, June 17, 1987, beginning at 7:30 P.M. You can obtain additional information by calling 881-5918.

DATA BASE MANAGERS by George F. Steffen

I have been looking for a good data base manager for some
time. In most cases, I have found that writing an
EXTENDED BASIC program to do the job is much more
satisfactory than using a manager. My preference among
those I have used is Navarone's DBMS because the files
are compatible with standard TI files and thus are easily
accessible from BASIC or EXTENDED BASIC. I found it
impossible, for instance, to produce a report in our
desired format for our group library list. Therefore, I
set up a DBMS file for entry of the programs and wrote a
program to produce the printed report. The DBMS is used
for entry and sorting.

My objections to most data base managers are: 1) Because
fields are fixed length, variable length data occupies
too much space. 2) No way to restrict entered data to a
desired range. 3) Lack of calculation ability.

The following two articles on data base managers were
extracted from other newsletters. The first, by Bill
Gaskill has appeared in The Front Ranger, Northern Nevada
Ninety-Niners Newsletter and Chicago Times. None give
credit to any other newsletter nor claim that Gaskill is
a member of their group. Therefore, the original source
is not known. The other article by Jack Tophas is an
extract of an article which appeared in Chicago Times. I
omitted his comments on ACORN 99 and PRBASE since they
were covered by Bill Gaskill.

An RLE Graphic picture, printed using a
using   TI-ARTIST program and the
PROWRITER 8510AP printer.

	FEATURE	ACORN99	DBMS	DB1	DB99	DB X	PRBASE	TURBO DM
F	RECORDS/FILE	LIMITED BY DISK	32,000	LIMITED BY DISK	350-1400	LIMITED BY DISK	350/710	LIMITED BY DISK
E	FIELDS/REC.	54	25	10	28	10	32	30
A	MAX. RECORD LENGTH	255	255	245	246	246	246	255
T								
U	MAX. FIELD LENGTH	40	40	28	28	28	246	28
R	MEMORY REQ'D	32K	32K	32K	32K	16K	32K	32K
E	LANGUAGE	XB/ASSM	ASSM	XB/ASSM	XB/ASSM	XBASIC	ASSM	XB/ASSM
S	CUSTOM DESIGN SCREEN LAYOUT	NO	YES	NO	YES	NO	YES	YES
T	SCRN GRAPHICS CAPABILITY	NO	NO	NO	NO	NO	YES	YES
A	ALTERED CHAR SET USED	NO	YES	YES	NO	NO	YES	NO
B								
L	CUSTOM REPORT DEFINITION	YES	YES	YES	YES	YES	YES	YES
E	SAVES REPORT DEFINITION	NO	YES	YES	NO	NO	YES	YES

DATA BASE MANAGERS FOR THE TI-99/4A by Bill Gaskill

Some owners/authors of the applications I have covered in
this article will no doubt be angered by the apparent
brutaliy of it. I choose to view it as honesty rather
than brutality. Too many reviewers white wash the
weaknesses of TI software they critically review. I will
not. I think sometimes that we are afraid that the
software market will dry up and blow away unless we give
favorable reports on the software products that do appear
for our computer. I prefer to think of it in another
way: if we promote junk software in a favorable light,
those that publish product reviews will lose credibility,
and those that buy software based upon those reviews will
simply be that much more reluctant to get burned a second
time.

In the process of searching for the perfect data base
manager, I have purchased several programs and spent over
$300. All of the programs that I own have positive
points and all have negative points. What I have
discovered to date is that the "perfect" data base
manager does not exist yet (not even in the business
world). What I am going to do will perhaps save you a
little time and money if you too are looking for that
perfect application.

The programs I own are:

  ACORN 99 from Oak Tree Systems
  DBMS from Navarone Industries
  DATA BASE 1 from SPC Software
  DATA BASE 99 from Quality 99 Software
  DATA BASE 300 from the International Users Group
  DATA BASE X from Western Ware
  PRBASE V1.2 and V2.0 from William
  TURBO DATAMAN from Easy Ware

I have used these programs enough to feel comfortable
with each and could probably write several pages about
each one. Unfortunately, publication space is limited
and such a voluminous article would never see print
because of it. Thus I have tried to be brief, but to the
point, in my comments on each program. Also, please keep
in mind that my comments are subjective, based upon how
each product meets MY needs and expectations. Yours may
be different.

For ease of reference I have included some of the
information in a comparison table that allows analysis at
a glance. In the paragraphs that follows I will try to
provide a little detail to each issue and cover special
features, lack of what I view as standard features and
product performance of each program. I apologize in
advance for the cryptic style you will read, however, I
needed to be brief. The DATA BASE 300 program will not
be looked at since it is not available.

ACORN 99:

Among the top three DBM's available to the TI community.
The only relational data base available. Also, the only

one with a programming language interface for custom
applications. EXTREMELY powerful and well designed. Can
support three active files at one time. Allows existing
data file formats to be edited, copied to another file,
resequenced and can reformat a file structure into another
file format. Does not have the ability to show number of
records in a file. Can hold more than 1500 records per
file on a SS/SD disk (depending on file size). Sorts
alpha characters and strings better than numbers, indexes
record location for subfile creation and main file is
then concatenated to create the subfile as another
database. Possesses ability to search using. "equal to.
unequal, greater than, less than, ignore" logical
operators. Supports relational operators in search
routines through the use of a true/false convention that
allows selecton of records where all parameters are met,
or any parameters are met. CAN print a single record
from a display screeen. EXTREMELY slow in operation.
Uses 40 column text mode. Allows duplicate key field
data entries. Allows printer control codes to be
encrypted in setup file. Provide input checking for
"numeric, integer, money, string, flag and date" entries.
Overall, a fabulous program, with almost limitless
potential. The best documentation of the group, giving
many examples along with explanations. SUPERB
application.

DBMS (Navarone):

Allows 32,000 records per file, but only 350 per SS/SD
diskette. Limits you to half that amount if you wish to
sort the file since it creates a second sorted file that
demands equal space on your data disk. Most interesting
report generator I have ever seen, a cut and paste type
affair that is really neat, but poorly documented.
Excellent custom screen design module which includes help
screens that you design. FAST FAST FAST. Requires
unique key field entries only, which I find inconvenient.
Documentation is better than originally written, but
still confusing at times, and incomplete. Dotes on
mundane things and skips over, or entirely omits,
important things. Does totalling in reports, but no
other computational work. Does not suport single record
printing, but can use the report module to scroll data on
screen, write it to disk or send it to your printer. Can
append new files to the end of an existing record, but
cannot reformat the record in any other way. Can create
subfiles, but you have to figure out how to do it for
yourself because the documentation does not tell you how.
It doesn't even mention subfiles. Allows printer control
codes to be encrypted in Report Generation file. Does
not perform input checking of any type. All data is
considered to be a string entry. Best suited for a hard
disk environment. Not difficult to use once you have
"played" with it, but can be intimidating at first.

DATA BASE 1:

Best suited for mailing lists or other LIST type data
files. Cumbersome design setup requiring records to be
accessed by their relative position in the file (record
number). You must first list the records by a specified

field if you don't know the record number. Time consuming. Provides three pre-set mailing label report formats and one custom format for your own design. Will NOT do reports that have heading information. Includes several nice utilities, such as a formletter generator, disk file data base which creates a DB1 data base file out of the information on your library of disks. Does not provide for input checking, nor length of field entries. Only looks at the length of overall record. Does searches by "equal to" operator only on one data field at a time. Requires that you first create an index file and then search. To search by another field you must create another index file. Searches by a maximum of 5 characters in any field. Sorts are limited to 1000 records, no matter how many exist in the file, but both alpha and numeric sorts are offered. Subfiles can be created to a printer in the main program or to disk by using the Utilities options. Selection is by "equal to" or "between two values", which can be either alpha or numeric type.

DATA BASE 99:

More emphasis put on copy protection than on program performance. Allows custom screen design and claims 28 fields of up to 28 characters each. Would be a neat trick to do since four of the 24 rows on screen are used by program prompts. Fast assembly language interface for report generation. Cannot generate reports with headings and does not permit printer control codes to be inserted in report data. Does not save a format after design, so you will have to re-create it each time you want a report. Data is printed in continuous format without regard to page breaks or anything else. Design of layout is cumbersome, requiring you to conceptualize how many colons and/or semi-colons are needed to push the data across the page. Number of colons/semi-colons is limited to 127 characters allowed in a LINPUT command. A terrible system. Disk catalog accessed from main menu will crash program if you enter an alpha character instead of a number when it prompts for the disk drive number to be catalogged. Color is lost after a crash since it was CALLed from the LOAD program. Does not permit single record screen print (unless you buy the DB99 Utilities), must use EDIT option to search for a record or search sequentially. Cannot go directly to a record by its relative position in the file. Will create subfiles to disk, allowing the search by "less than, equal to or greater than" operators. Search is limited to one field for all practical purposes. Sorts can be performed in ascending order, by any one field. Sort is an actual re-write of the file. All data is considered string information. No number crunching (again, unless you buy the DB99 Utilities), no input checking. Documentation consists of two 8 1/2" X 11" sheets of paper printed on both sides. Program is slow, inflexible, inconvenient in many ways and cumbersome to use. It might have been an advanced application two years ago. Today it is a dinosaur, even with the DB99 Utilities. Much too expensive.

DATA BASE X:

Very modular, meaning that each function (adding, editing, printing, deleting etc.) is a seperate program that must be loaded each time you want to use that function. Does statistical analysis of data. Record counter is inaccurate, code of program is jumbled and entirely unstructured. Does not sort data, even though documentation uses the term "sort". What it means is "select". When DATA BASE X "sorts" by a particular parameter it is really selecting records for dumping to a printer that meet that parameter. Does allow selection between ranges. Cannot create subfiles, does not index existing records. Access of a record is done sequentially, unless you know the record number. No way to tell the record number, you must guess. Supports 1 or 2 disk drives. Excruciatingly slow. Requires that you name the data disk DBXDATA, for no good reason that I can see, otherwise program errors out. Dopes not save report definition, but does allow it to be printed in normal or compressed mode. Definition process if fairly simple, but time consuming. Documentation is the "shabbiest" I have ever seen. It is photocopied and put into booklet form with the pages not even cut straight, so that some information is missing off some pages. Overall, this program is JUNK! As with the IUG's DATA BASE 300/500, it never really belonged on the market in the state that it is in. Unfortunately, I didn't know that and paid over $30 to find out.

PRBASE:

Totally assembly language coded. THE BEST all-around application in my opinion. FAST, flexible, does virtually anything a user would want in the way of data handling, except number crunching. It will not do anything in that area. Treats all data as part of a big string just as DBMS and DATA BASE 99 do. As long as you own the PRB Utilities written by John Johnson you can create subfiles, otherwise you can't. Has on-line help for commands, creates an index by an input field you choose and then accesses any record in about 1 second. Also has a FIND feature to look at data sequentially in any single field and a GLOBAL option that searches for a single data entry anywhere in the record. Saves up to five report formats, V2.0 allows you to format a data disk. Custom screen layout with terrific graphics options for borders/windows etc. is avalable. A tremendous program, well thought out, well designed, artistically executed. FAIRWARE!!! PRB Uitilities are free for the asking as long as you provide th disk and mailer. Report design routines is cumbersome and confusing. Prints single record from screen display in either 40 or 80 column mode. Program is very sensitibe about I/O device names. My copies (V1.2 and V2.0) both require PIO. to work rather than just PIO or PIO/1, etc. With number crunching abilities this program would be a perfect "flat-file data manager" for most TI users. As it is, te value and performance for a FAIRWARE application, or a commercial application too for that matter, is unsurpassed. If you don't have PR BASE then you are missing out on one of the premier productivity tools available to the TI Community.

TURBO DATAMAN:

This is the second most powerful and useful data manager, taking a backseat only to PR BASE. It runs slightly ahead of ACORN because it performs number crunching and is faster in operation. Like ACORN, TURBO DATAMAN allows you to create a dictionary of data items (fields) and then lets you choose from that library of fields to put a record together. Up to 30 fields are allowed per record. Twenty pre-defined records (file formats) can exist on one disk. Allows custom screen layout design, complete with graphics for borders/windows etc. Does input checking, allows secondary screen access, like ACORN's Detail Records. Alows formulas to be created and saved that perform the four basic math functions. Report definitions can be saved. Allows wildcard type operators in searches, will print single record from screen display. Provides "less than, greater than, equal to, not equal to, greater than or equal to, less than or equal to" operators in screen display and report generation modules. Permits sub-totals in reports that can be formatted like TI Extended Basic does with the IMAGE statement. Subfiles can be created through the report generator by sending the output selected to a disk file rather than a printer. The results must be converted back to INTERNAL, FIXED from DISPLAY FIXED before you can use it in the program, however. TURBO DATAMAN does not provide you with that utility. The documentation instructs you to "write a program" to do it. Names used for different modules in the program are confusing. Eg: ETCH, SKETCH, SKETCHR, FETCH. Should change names to more accurately reflext function of module. Documentation acceptable, but lacks adequate coverage in some areas. Utilities are provided to perform some mundane operations, such as counting the amount of records in a database. Reformatting or restructuring of an existng file is not permitted, unless the input field is appended to the end of a record format. This program needs some "fine tuning" in some areas, but is still an exciting productivity tool wth immense possibilities. Its speed of operation is not fast, but acceptable. It is faster than ACORN. One can set up the SKETCH program to auto-load if desired, but the whole application should be centered around a menu, in my opinion. As it is now, you must RUN each module from the READY> prompt when you need to use it, because every module exits with an END statement. If you don't own this program, you should. Whether you want to manage a mailing list or do accounting, TURBO DATAMAN is for you.

SOFTWARE REVIEWS: Jack Topham

Back in May 1985, I reviewed several DATA BASE MANAGEMENT programs and concluded that ACORN99 was the one to beat. Indeed, ACORN99 has remained one of the few really complete data base managers available for the TI99. Since it has remained my benchmark program, I will review its features once again.

Now along comes two new FreeWare programs from two different parts of the TI99 world. I'll start with CREATIVE FILING SYSTEM from Mark Beck in ARKANSAS. CFS has 24 pages of documentation as well as a set of example files that the DOCS walk you thru step by step. A nice touch! CFS requires a full system and can be loaded using any of the load modules. Two drives or a lot of disk swapping is required. Data goes on one and the CFS files on another. This permits auto load of data files which I find great. Up to 1400 8 line records can be created on one DS/DD disk. Each line can have its own printing default characters. Sub files can be created on user defined criteria. Mailing labels can be printed up to 4 across. Any number of files can be merged together and files can be converted to DV/80 to be used with TIWRITER. Any file can be converted to a TIWRITER VALUE file as well. Mathematical operations can be perfomed in the REPORT mode. I trust I have whetted your appetite by now.

RECORDS can be up to 14 fields of 14 chaacters each and are defined in the CREATE mode. With up to 16 field headings of 14 characters each, the record screen is 16 lines. Once the fields are created, you can enter data record by record. Once entered, you can display the files in several ways. Start to finish, from start at to end at, selected files, or letter to letter in any field. Sub files can be created n this manner as well. The APPEND mode allows adding more records to a file.

In the SEARCH mode single or multiple conditions may be used. Since every field is searched, it takes a short while. If any one field only is searched, the search is fast! The CHANGE mode allows records to be edited for changes on a singel record or on all records. Up to 1300 records can be sorted on any one or two fields. Even a variable sort is offered if the data is in different fields in different records.

A unique option is GRAPH. If numeric data in one of the fields is preceded by a $ sign and a date is in another field, CFS will display a screen graph in-color and/or print out the data. Two graph options are offered.

CFS was designed to use FOUNDATION's 128K card if you have one to increase the speed of SORT and GRAPH. NOTE the files "DISK" and/or "PRINTER" delete them before starting. They will be created uniquely for your system after loading the first time. CFS will print out reports in various ways including mathematical operations on the data. For example, add col 3 and 4 for each line and print total in col 5. Or totalling can be done vertically. And fnally, CFS will let you CATALOG 20 disks of up to 50 files each and then use all of CFS utilities to SORT, SEARCH and REPORT. If you like CFS send $10 to MARK at 166 DELAWARE CIRCLE, JACKSONVILLE, AR 72076.

Another hot data base these days is PRBASE, A PERSONAL RECORD MANAGEMENT SYSTEM BY William Warren, ...

Public Domain Disks

TI FORTH System Disk		
FORTH Source Code 'A'		
FORTH Source Code 'B'		
TI Graphics/Sound Demo		
DATA 1	John Volk	
DATA 2	John Volk	
DATA 3	Clearing House	
DATA 4	" " "	
DATA 5	" " "	
DATA 6	" " "	
DATA 7	" " "	
DATA 8	" " "	
DATA 9	" " "	
Doodles	Howie Rosenberg	
Sonnets	Howie Rosenberg	
XB Loader	Tom Freeman	
System II	Gene Hitz	
System A	Gene Thomas	
System A Source..	Gene Thomas	
Utility4th	Rich Bailey	
Utility4th Source	Rich Bailey	
FORTH Manual	5 Disks	
FORTH TUTOR(1-6)	George Smythe	
FORTH TUTOR(7-12)	George Smythe	

Tutorials

	UG Source	Pages
Beginning	MSP	3
Customizing	Edmonton	2
Disk Fixer	Edmonton	1
Loops	NewHorizon	1
Parameters	Dimensions	1
File Transfer	Milwaukee	1
Arrays	Milwaukee	3
DSDD	Milwaukee	1
Autodecimal	Milwaukee	1
Stack Use	Kentucky	1
Floating Pt	KY & VAST	5
Bit Map	Kentucky	8
FORTH Glossary		9
Windowing	Lehigh	3
4th-Riter	Milwaukee	1
Grid-Plot	C.A.F.I.G.	2
System Debugs & New Words		1
System A documentation		5
2D Docs		5
NOTEINDEX Documentation		1
FORTHPLAN Documentation		3
FORTHRITE Documentation	1	

Freeware Disks

2D FORTH (JF Graphics)	J.P.Morin
Artist Program Disk with Demo	
2D DOCS (DV80 documentation) ..	J.P.Morin
FORTHFONT	H.H.Arnold
Font & Label Designer Program	
GPL Compiler/Decompiler	Ottawa UG
FORTHPLAN	H.H.Arnold
Forth Spreadsheet	
FORTHRITE	H.H.Arnold
Forth Word Processor	
NOTEINDEX	H.H.Arnold
MICROpendium User Notes File	

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* * Disk Hi-Lites * *

DATA 1
Airplane Shoot - Battlestar - Diamond Draw - Suicide Ships - Nuke Attack

DATA 2
Disassembler - XB->Forth - Life - Breakforth - Micro Jaws - Screen Dump

DATA 3
Disk Init - Fast Copy - Shoot'em Up - Number Race - Disk Fixer - DSR Peeker

DATA 4
Cosmic Conquest - Decompiler - File Transfer - Calendar - Slot Machine - Speech

DATA 5
Grid Plot - Talking Editor - Body Snatchers - 4th Riter - Sound Control

DATA 6
Disk Utilities - Windowing - Alpine Skiing - Sketcher - Music Routines

DATA 7
Terminal Emulator - DS/DD Alterations - Primes/Factors - Graphics - Bug Catcher

DATA 8
Fast XB Load - Lower Case - Balance Game - Screen Dump - Freq Synth - Fractals

DATA 9
Sector Dump - Reverse Video - Turtle Graphics Demo - DrawGrid - Pick & Roll

System II
XB Load - Disk Fixer - File Transfer - Disk Init - 3 Pass Copy - Cataloger
DSR Peeker - Decompiler - Screen Dump - Auto Repeat Keys - Auto Decimal

System A
64 Editor - Sound Access - Printer Words - Decompiler - Hi Res Screen Dump
Arrays - Graphics Words - Starting Forth Words

Utility4th
On Dsk Docs - Screen Dump - Disk Init - Disk Utilities - Sector Access
Disk Copy - Printer Codes - Customizing - New Words

Forth Tutor (1-6) & (7-12)
2 Disks of Forth Tutorials in DV-80 files with Fast File Scroller - Forth Forum

Forth Manual
5 disks with complete Forth manual printed in DV-80 files.

OFFICERS

President........Steve Sims   631-7255
Vice-President...Bill Lucid   291-3995
Secretary........Dan Eicher   787-4184
Treasurer........Steve Sims   631-7255
Regional Center:
South...........Dennis Sherfy   881-5918

HUGGER NEWSLETTER EDITOR

Bill Lucid   (317)-291-3995
GENIE MAIL   SPEEDWAY.500

MONTHLY MEETING LOCATION

ST. Ann's School
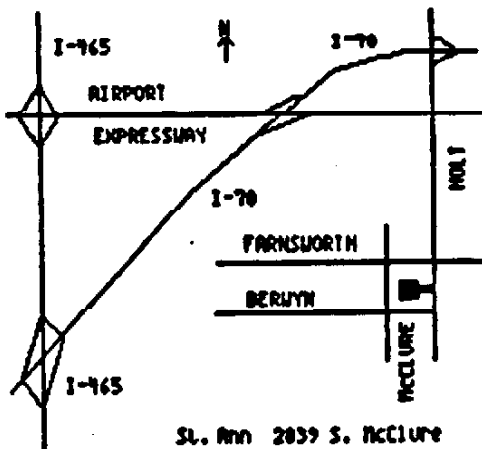2839 S. McClure
Indianapolis, IN

Meetings open at 2:00 PM

NEWSLETTER EXCHANGE

The HOOSIER USERS GROUP is participating
in a Newsletter Exchange program with
other TI Users Groups. This offer is
made with the understanding that, with
proper credit, your Users Group can
reprint articles from the HOOSIER USERS
GROUP Newsletter, and with proper
credit, we can reprint articles from
other TI Users Groups Newsletters.

PRINTOUTS

Library listings can be ordered for $.25
6 X 9 self addressed envelope with $.66
postage. The HUGbbs Reference Guide can
be ordered for $.50 and a 4 X 9 self
addressed envelope with $.22 postage.
Please send orders to our P.O. Box.
SORRY, PRINTOUTS WILL BE SENT TO ACTIVE
MEMBERS ONLY.

St. Ann 2839 S. McClure

HUGbbs INFORMATION

317-631-994A   300 baud only
The HUGbbs is on-line 24 hours a day.

SPONSOR THE HUGbbs: Any member or retail
business can sponsor the HUGbbs. For
$5.00 donation, you get 5 (40 column)
lines on the Log-on Title Screen for a
week (or for a $10.00 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.*

BACK ISSUES

Back Issues purchased at the monthly
meeting are $1.00 each. Mail order
price is $1.50 per Newsletter (postage
included). Orders will be filled within
3 weeks of receipt.

ADVERTISING POLICIES

There will be no charge for
advertisements submitted to the HUGger
Newsletter by members (for private sale
only). Format for the advertisements 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 advertise 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 Quarter Page Ad: $ 7.00
All Ads must be in 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 illegiable advertisements. All
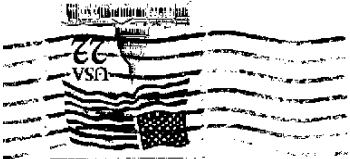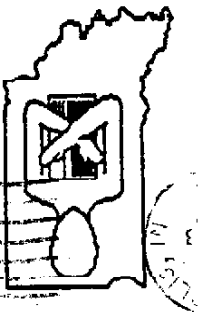proceeds are accepted as donation to the
HOOSIER USERS GROUP.

APPLICATION FOR MEMBERSHIP

Below you will find an application for membership to the Hoosier Users Group. Active membership entitles you to the Newsletter, up and download on the HUGbbs, attendance and voting rights at regular club meetings, access to the HUGger Library of Programs, special club activities and special guest speakers for one year. 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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