

JULY 1985

MEETING SCHEDULE

HUG TIBBS - [713] 487-5530 24-hour BULLETIN BOARD

FIRST SUNDAY OF EVERY MONTH (2nd Sunday if 1st Sunday is on a holliday weekend)

THE NEXT MEETING

SUNDAY, JULY 14, 1985 2:00 P.M.

St. John's School - 2401 Clairemont

For the month of July, The HUG meeting program will focus on BASIC programing. We will deal primarily with setting up, handling, saving, and manipulating of files.

Sandor A. Karpathy, VP Programing

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JUNE MINUTES

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BASIC PROGRAMING DISK DRIVES

1985 HUG OFFICERS

President --- BILL KNECHT ... 473-5713 Secretary - CHIA GREER ... 668-4500 VP/Membership DON LEWIS 353-5295 Treasurer - DAVID MATHER . 941-1497 VP/Program -- SANDOR KARPATHY 955-1138 Librarian - LARRY PIPKIN . 499-9991 VP/S.I.G. --- MARK CRUMP 467-2541 TIBBS/SysOp CECIL CROWDER unlisted Exec. Asst. - TOM JAY 850-0222 Editor ---- ROGERS MILLS . 930-0810

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PRESIDENT'S REPORT

If you missed last month's meeting, you missed a chance to see how several bulletin boards operate. We actually called the 'Frodo'. 'Phoenix' and 'HUG-TIBBS'. It seems like the presentation was successful as we heard that modem sales were up. We did hear several comments about the length of the business sessions the past two meetings, but you have to realize that it takes time for ideas and appropriations to be discussed and voted on. The board realizes this concern, as it was noted that several members for potential members) left the meeting early. At the meeting on July 14, we will presenting to you the idea of "the Board of Directors having the decision-making power for the group."

We have had two changes in our officers: Cecil Crowder is now SysOp for 'HUG-TIBBS" and Rogers Mills is our new Newsletter Editor. Please give these two your support in their new positions. Some comments have been made about "musical chairs" among the officers, as when one resigns, another replaces him. The reason for this is back at election time, many stated that if a certain individual did not run for re-election, then he or she would like to seek the office. This was true about my position and that of Mayne's, Cecil about Stephen's position and Larry about Bill if he chose not to run for Librarian. So when a position becomes vacant, these that have shown past interest are approached. It is best to have someone in a position where he thinks he can serve best.

The following committees have been established. Mark Crump and Don Lewis are laying the plans for a CLUB PICNIC to be held August 11 instead of a regular meeting. More information about this at the next meeting and in the next newsletter. Another committee is the Officer Equipment Repair Reimbursement Committee made up of Mayne Wright. Bill Rister, Philip Poxon and Dave Sholmire, to evaluate and make partial reimbursement in case an officers personal equipment fails through club use.

As we approach the last half of this year, let's all work to make it as successful as the first half. Sandor has presented us with a nice variety of programs, but as the months pass, ideas get more difficult to come by. If you have ideas for programs for the meetings, let him know. Also, Mark Crump is busy setting up special interest seminars, but he also needs your input. Your ideas are always appreciated.

TI-WRITER TIP OR LOOK BEFORE YOU PRINT

There are a number of things in TI-WRITER that have caused some minor irritation with some of its users. One of them was the small capital letters instead of true lower case. This problem was solved with the updated files provided to the user groups as a last act of kindness to the groups after the TI 99/4A was discontinued. It sure looks much better on the screen now. One of the other minor irritations was the form feed after you letter or document finished printing. This is just the procedure that you have been looking for.

To get rid of the form feed and in the same process get a good look at what the final product would have looked in print, follow the following steps. You will wonder why you had not been told this before.

To begin with, type your document just as you have in the past with any and all of the control codes that you like. You can use the transliterite commands just as you have in the past, nothing is different at this point.

Now save the text in the usual manor. At this point you may wish to run the spell checker program by Dragonslayer. Remember to save each step as a different file. (change the file name) Now load the corrected spelling file into the editor and do any reformatting that you need to do. This should also be saved as a separate file. (If you lose a file you can always retrieve the one behind it.)

Now for the best part. Load the latest file into the formatter for printing. Now when the prompt for the printer file appears do not press enter. Instead erase the file name and put DSK1. (new file name). Now press enter. The program will print the file to the disk drive in the same manor as it would to the printer. When it is done you will have the printed file on the floppy disk.

Now go back to the editor and load this printed file. The file will appear on the screen in the final form. Now you can see any errors in the format and correct them without waisting any paper! You can make minor changes so long as you do not try to reformat with control 2. To prevent any mishaps shut off the word wrap with control 0.

After you have made your changes and you are satisfied with the looks of the text you can prepare it for printing. You must print form the EDITOR as the final step. All you have to do is remove the line feeds and print from the EDITOR using PID or RS232 without the as you see it on the screen. Make sure you have removed the line feed symbols from the text and the LF command from the file name. Have fun.

R. MILLS

Bill W. Knecht

ADDING NEW DRIVES

Expansion to a better system is the thing now days. For the beginner, it can be a nightmare if he or she is not into tinkering with electronics. In some cases the job has been made simple by the manufactures. But even this approach has created some 'fun' for some of us out here. There are so many things to choose from that are now just becoming affordable for us who do not have a 'bundle' to spend. The new disk drives have made life in computing a lot more fun and more affordable.

But a word of camtion must go along with the good news. If you are buying a new disk drive or a used one, make sure it will fit your needs before you plunk down the cash. And if it is a used drive, check it out before you commit.

Lets look at the available types of drives and compare the their attributes. The first thing that comes to mind is the original drive used by II in the expansion box. This is what we will compare the newer drives to. The first drive used was a Shugart compatible, single sided single density drive. It used the 5 % inch floppy disk. The disk drive system used 40 IRACIS (40 concentric rings) with 9 sectors per tract. each sector contains 256 bytes of information. A byte bits of information or 8 'on or off' contains 8 pieces of data. A block of data contains 1 K of information which is 1024 bytes of data. So each tract has about 2 1/4 blocks of data stored in it. The entire disk will contain 90 K of storage after it is formatted. There are bytes of information stored between the sectors that are used as part of the disk organization. These pieces of information are used to keep tract of your stored data by the DOS. The data maybe invisioned as being a series of magnetic bars and if you could see them might look something like this:

11111 1 1 111 1 1 1111 11 11 11 11 1 1

Double density would put the same pattern in half the space. Therefor, each tract would contain twice the information as the single density tract. the TI disk controler can position the heads of the disk drive and record the information in single density only. The CorComp and the Hyarc cards are designed to record in both single and double density. All of the cards mentioned can control double sided drives (drives with two read and write heads). The TI card will allow up to 3 drives while the others will allow up to 4. Remember, When you look at a disk analyzer or fixer presentation of a diskette, the data is displayed in a alpha numeric representation of binary code.

Every Shugart compatible disk drive has two things in common regardless of who manufactured the drive. This is the plug-in resistor termination pack and the drive select switch. On many of the drives the switch is nothing more than a dip socket that you put a shorting header in to select which drive select line will activate the drive.

There are drive select positions for 4 drives. These are normally refered to as drives 1 thru 4. Sence the computer starts to count with 0, to the computer sees it as drives 0 thru 3.

Now here is where it becomes a bit interesting. The TI 99/4A computer had original equipment that was a single sided single density drive system. The drive itself was capabile of double density, but the controler did not allow the use of double density. With DISK MANAGER 2 having the ability of formatting in double density, this can only be interpreted as half of an upgrade system. (most likely a double density controler) To obtain twice the capacity all you had to do was buy a double sided drive. Three double sided drives gives you 6 times the storage capacity of the original system. A CorComp card will give you 16 times the original capacity!

The disk drives that you can purchase now have come along way sence floppy disk systems were introduced. First came the B inch size. Very few systems outside of large computers use them now. The 5 1/4 size is the new replacement for it. If you wish, you can even use the new 3 inch systems on the TI! The new smaller drives are compatible with the 5 1/4 drives. So you could even make your system smaller!

Rogers Mills

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The disk drives that you can purchase now have come along way sence floppy disk systems were introduced. First came the 8 inch size. Very few systems outside of large computers use them now. The $5^{-1}/_{4}$ size is the new replacement for it. If you wish, you can even use the new 3 inch systems on the TI! The new smaller drives are compatible with the $5^{-1}/_{4}$ drives. So you could even make your system smaller!

Rogers Hills

SURGE PROTECTION

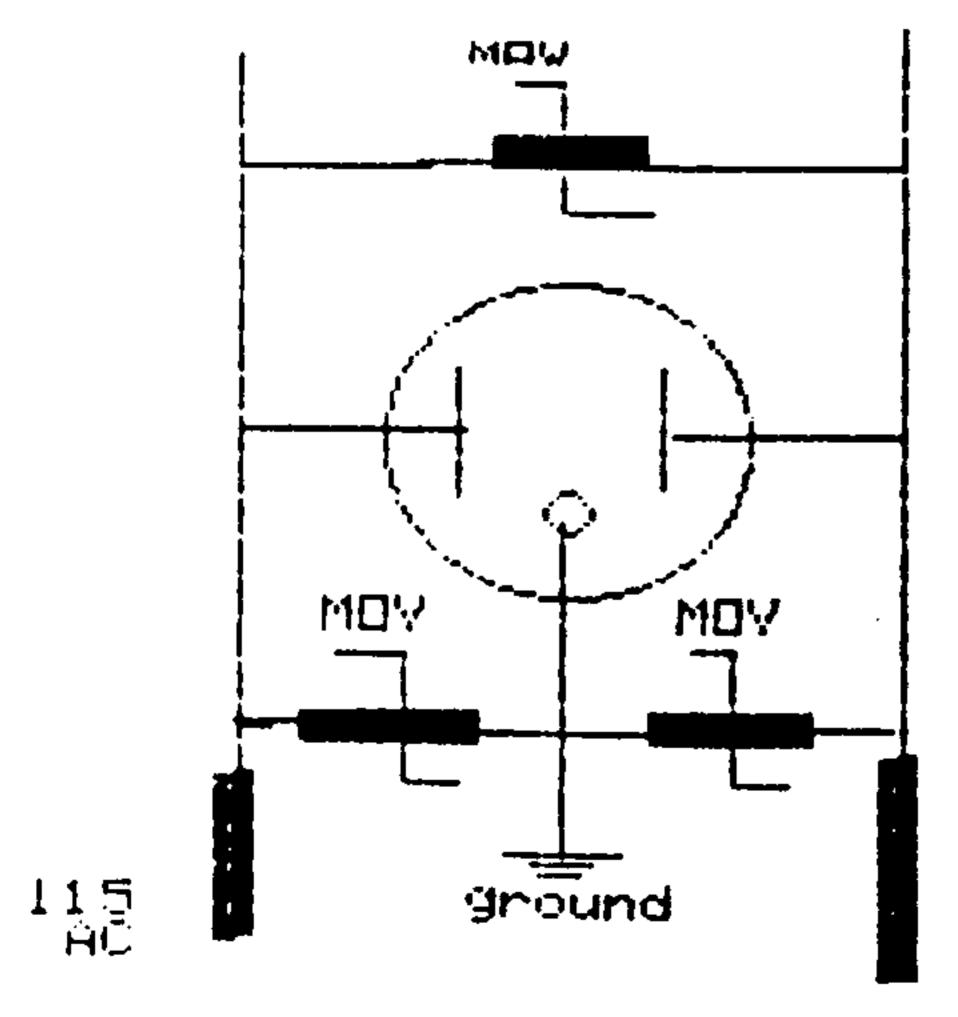
would like to take a few agments to talk to you about voltage surge protectors for your computer. First i will explain what a voltage surge is. Your wall plug in your house or office, that you plug your computer into, is usually 110 to 120 volts AC. The power company tries to kep it taht way but it does not always happen. There are some little ghosts that sneek into the power lines from lightning, static discharges, and electrical surges from motors sarting and stoping. These things can cause the line voltage to increase as high as 6,000 volts for a fraction of a second. That surge can, even as short as it may be, can cause your computer to loose data and even cause expensive damage to your computer. There are ways to protect your computer from these surges. The best way is sto put a surge protector on the line voltage coming from the outlet. There are many protectors that are commercially available. The cost ranges from about eight doilars for a simple, soingle plug to the ones costing 100 dollars or more.

for those who are handy with tools, here is a project of low cost that will save you a bundle. The tools that you will need are a screw driver, a soldering iron, and maybe a pair of pliers. The supplies that you will need are solder, a multiple power strip, (get one with a switch) and three GE MOV's, GE V130LA10A. You can get this from Radio Shack (part # 276-570) with a cost of \$ 1.49 each.

Take the back off of the power strip and you woill see three wires running between the recpticals. Hook the MOV's into the wiring system according to the diagram below. Reinstall the cover after you have insulated the wires with black tape. This is one place where neatness rteally counts.

When you have completed this project you will have saved a small amount of money in the actual conctruction and probibly a lot of money in the long haul. I hope this article will be of help to you all.

ARTICLE FROM 99ER LINES by Richard Heaver.



UNDER CONSTRUCTION

PARALLEL INTERFACE TO PRINTER +

16 PIN PIO CONNECTOR		36 PIN PRINTER CONNECTOR		
FUNCTION	PIN #	FUNCTION		
Handshake Out	1	Strobe		
Data LSB	2	Data LSB		
Data	3	Data		
Data	4	Data		
Data	5	Dat a		
Data	6	Data Data		
Data	7			
Data	8			
Data MSB	9	Data MSB		
Handshake in	11	Busy		
Logic Bround	* 17 *	Chasis Ground		
5 not used		not used		
Lagic Bround	# 16 #	Logic Ground		
	Function Handshake Out Data LSB Data Data Data Data Data Data Data Dat	FUNCTION PIN # Handshake Out 1 Data LSB 2 Data 3 Data 4 Data 5 Data 6 Data 7 Data 8 Data 8 Data MSB 9 Handshake In 11 Logic Ground # 17 # 5 not used		

The PIO pin 11 connects to the frame or chasis ground of the printer and PIO pin 16 to the zero volt or logic ground of the printer.

INPORTANT

The recommended female connector is manufactured by:

TB ANSLEY PART# 609-1360 (16 PIN CONNECTOR)
609-1361 (CABLE STRAIN RELIEF)

The cable strain relief is not mandatory but it does extend the lif of the cable.

Several companies manufacture custom designed cables.
Two of these companies are:

TENEX CORPORATION

PHONE # 219-277-7726

54533 TERRIS LANE SOUTH BEND, IN 46635

DENALI DATA CORPORATION PHONE # 405-534-7764

A CLOSE-UP OF BITMAC by DataBio Tics inc.

Some programs that are available to the public are indeed worth having. There are many programs that are user written that are cute or functional. some of the connercial products are also along these lines of being functional or cute. Some of the programs are soon forgotten and put aside. While others are so fantastic that you just have to say something about them. Such is the case of the program listed as the title for this article. Upon having been introduced to the program at the last HUG meeting, I simply had to have a copy of it. This article is about the first use of the program and what I personally feel about it. I paid the full price for it and have nor does HUG have any connections to the author so far as I have knowledge of.

There are many screen dump programs out on the market as well as some user written and some programs found in the magazines and the newsletters around the country. I personally have three different screen dump programs in my personal library. This program far exceeds any screen dump program. First of all the program is not just a screen dump. That is just one of the sub-programs that are in one of the several menus! You can turn on an individual pixel with this thing! What is that?? Well how about a short course in the screen graphics capability of the II-99/4A computer.

There are several screen modes of the II HOME COMPUTER. The TEXT mode of the Editor/Assembler and the II-WRITER are cutie familiar to many of you. This is the same screen mode used by many of the adventure games. There are not any graphics capabilities in this some. The standard screen is the Graphics mode. This is the standard 32 column by 24 row screen that cam use text. user defined characters, colors and sprites. The next mode is the Multi-color mode. It is 48 columns wide each containing 64 blocks of 4 by 4 pixels. Each block can have a separately defined color. (OK OK, a pixel is the smallest dot of graphics that can be turned on or off.) Now enters the real super graphics or Bit map mode. Bit map mode allows you to turn on an individual dot of light and assign it a color. High resolution graphics! If you are familiar with the language FORTH, you also are aware of three modes of bit map graphics, Split, Split1 and Split2. These are a combination of bit map mode and text mode. The prime example of that being 64 support or the 64 editor mode. The characters are, as far as I can tell: only three pixels wide! Now that is small. The only way to get higher resolution graphics would be to change the rate of horizontal sweep and make the phosphor dots smaller. Well, let us get back to the program.

The program can be loaded into memory from the diskette, using any one of the three command modules listed here. Editor Assembler, Minie-Memory, Extended Basic, and even Basic if you have the Corcomp disk controler card. You will need a disk drive system, RS232

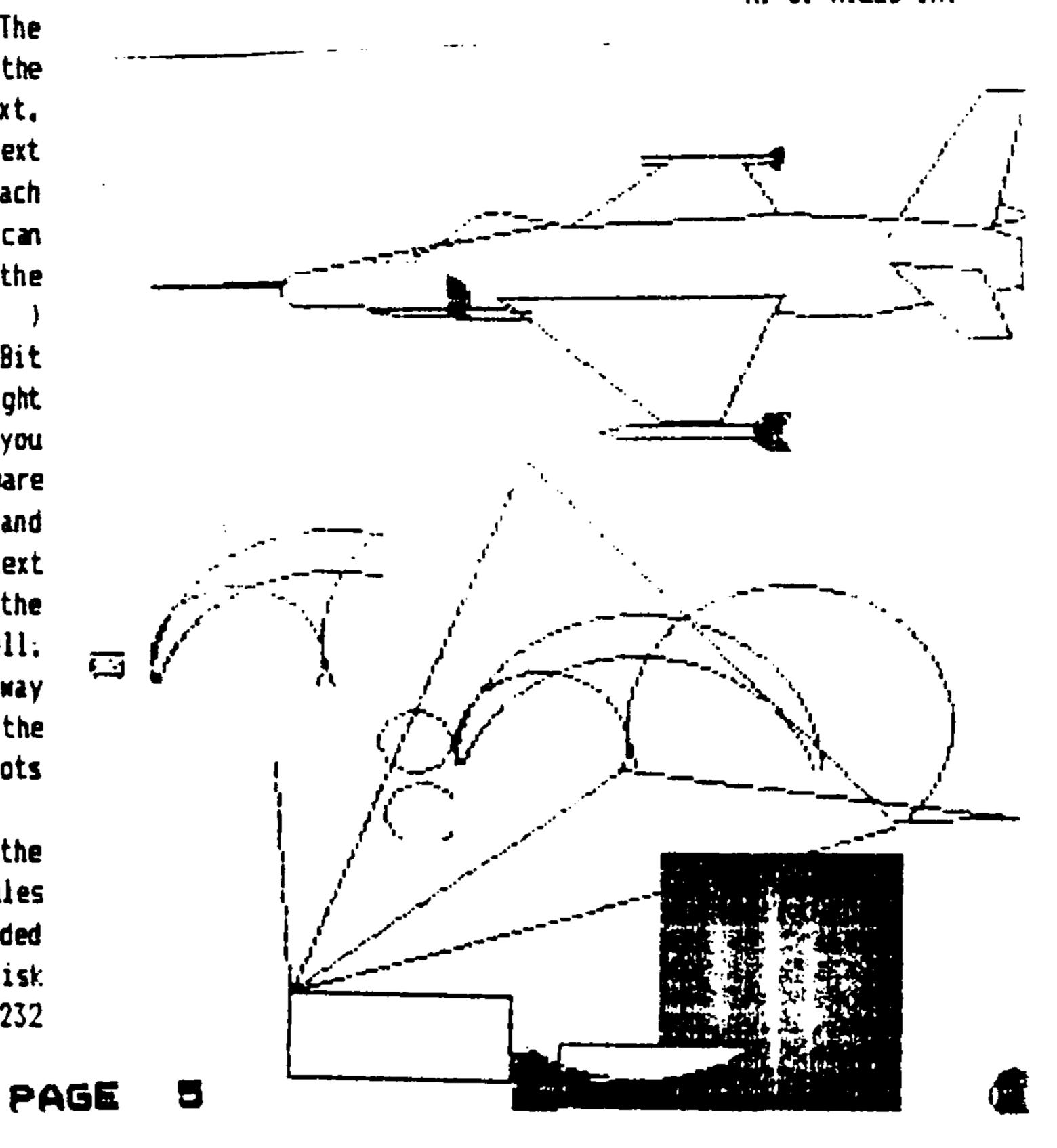
card. 32k memory card or the Corcomp expansion system to use the program completely. (You will also need a printer capable of bit graphics). You may either use a joy stick or a track ball to control the graphics. The program can draw circles, retangles, straight lines, or curved lines. You can fill in large areas and even use different colors. The screen can be saved onto disk or transfered to another computer via the Terminal Emulator II cartridge. This is done with two computers and the program called 'Coworker'. One computer is using the coworker program while the other is using Bitmac. You can also use other computers such as the IBM PC. However, you must have a program written to make the transfer.

Now . to the program itself. The Bitmac program is ICON and TEXTCON driven. In other words the menus are pictures for the main menu and text for the submenus. You point to the Textcon or the Icon and turn on a red square for the particular selection. Then you make the final choice by pressing the fire button. Each choice has a particular function or procedure to follow. Be sure to consult the manual as to each function and how to opperate it! It is far too in depth to cover in this article.

Some of the main functions are, beyond the actual drawing, are saving the screen to disk, transmitting the screen to another computer, adding color enhancement, reducing the picture in size either in part or the entire picture, mirror image, negitive image, printing the picture, copying a part of the picture to another section of the screen, and rotating the picture.

So with that in mind, here is an example of what it will do with a Gemini 10 printer.

R. 6. MILLS JR.



THINGS TO KNOW

There are many interesting items of information that comes my way from time to time. So here is a small list of items that just may interest you.

question that many Home computer users ask. Well do not be distraught for you can either exchange or have your unit repaired for less than 40 dollars. The only thing that has to be done is to send it to a repair and exchange center. The closest one to you can be located by calling II at 1-800-II-CARES. I just got off the phone with them a few minutes ago. I only had to wait a minute before a representative was able to assist me. So the number is still in good service.

Individual parts such as the gower supply and the RF modulator can be done much cheaper. One of my questions that I asked II was about the power-supply that is inside the console. Ithat is what warms the console at the orom port There are two models of power-supplies that were made for the Home Computer. They are interchangeable with each other. The newer model may or may not have the little red LED. Some of you may notice that the "Blond" sodes does not have a visible LED to indicate that you have turned on the machine. in some cases the LED is present but there is not a little hole in the tront of the case. With a small drill you can resedy this if you like. Hesove the entire electronics unit from the case and drill a small hole the center of which being the case separation grove and lined up with the two tabs on the top case half. Then carefully bend the leads of the LED on the power-supply to allon the LED with the hole.

Some of the new power supplies do not have the LED installed. In a future article I will address the addition of an LED to these power-supplies. For those of you who wish to keep a spare power-supply you can buy them from none other than RADIO SHACK. They now carry the exact replacement power-supply. The stock number for the supply is 277-1016 and the transformer (the part that plugs into the wall) is 273-1515. The cost is the best part. Less than 5 dollars.

That is just the beginning. The II AF modulator can be purchased for the same price at RADIO SHACK. The stock number for it is 277-1015. Not bad at all!

OK! So the good news is really good news. Well here is the not so good information for those of you who only have the PIO capability of printing. There are three command modules that do not support PIO. The TAX INVESTMENT RECORD KEEPING command module was designed prior to parallel printers became popular. You quessed it! It can only be used with the serial port. Sence the printer that I use is already set for serial printing I did not notice this, however. I know of two members who have it that do not have their printers set up for serial mode. So if you have not purchased a printer yet you might consider getting on with serial capability. You normally will get the advantages of both serial and parallel when you do this.

HUG TIBES celebrated one year on line June 21. 1985. At that time we had had more than 17.000 calls and over 3.000 messages.

There have been many changes in HUG TIBBS lately including the SysOp and the phone number.

Due to health. Stephen Foster resigned and ex-editor Cecil Crowder is new SysOp. The new phone number is (713) 487-5530 and we request that this number be posted on other BBS that you may call. Other U.G.'s please post this number on your BBS.

We are now averaging about 30 calls a day and 10+ messages. We lost many of our regular users during the time that the board was down, especially the long distance callers, but are well on the road to recovery.

We support true U/L and D/L with TE II, FAST-TERM, and some other equiators. We also have tutorials. documentation, and will soon have DV 80 files for printout with printers.

All of this can be at either 1200 or 300 baud depending upon which baud modes you have.

If you are not calling HUG TIBBS we are both missing out. ...Cecil

Also, remember to call the PHOENIX at 537-0741, Bill Rister, SysOp.

And Bob Baker has just started the Johnson Users' Group 88S up at 337-4128. He says they are still looking for a name. Any suggestions?

RECIPIE OF THE MONTH

POUND Chicken breast
Dredge them through flower seasoned with salt and pepper
Fry in butter for 5 minutes
Finely chop some shallots or garlic
Finely chop a medium onion
Brown omions, garlic, and shallots with 1/4 cup white
vermoth, a teaspon of tomato paste. 1/2 cup of chicken
stock. Cook till 1/2 of liquid remains.
Add 1/2 cup of cream and pour over chicken.
Serve with wild rice.

Data base management programs can be used to greatly increase the speed of producing programs while reducing errors. Most good programs will involve the processing of large amounts of information. Programmers supply information to their programs through the use of data statements or text files. The process of writing data statements directly is tedious. Look at program listings in a computer magazine. You will see that many of these programs contain lengthy listings of nothing but data statements. Just typing in these statements can test the endurance of the heartiest typist. To write the program's data statements would require the patience of Job.

I use the following procedure to produce data statements for my programs.

- 1. I use Data Base Management (Navarone Industries) to set up the information my program needs. DBM produces display/fixed files. Each piece of information contained in the record has a definite length and position.
- 2. I write a program that writes data statements to a display variable 80 file. I use LIMPUT to read in the entire record and the SE64 function to locate the information I need in the record. The beginning position and length are obtained from the DBM setup screen. Here is a sample program:

10 OPEN #1: "DSK1.DATA", DISPLAY, FIXED 128
20 OPEN #2: "DSK1.PROGRAM", DISPLAY, VARIABLE 80
30 I=100
40 IF EOF(1) THEN 100
50 LINPUT #1: A\$
60 B\$=SE6\$ (A\$, 1, 5)
70 C\$=STR\$ (I); " DATA "; B\$
80 PRINT #2: C\$
90 I=I+1
95 60T0 40
100 CLOSE #1
110 CLOSE #2
120 END

3. I convert the display variable 80 file containing data statements to extended basic's merge format with one of the text to program converters that have been used in the past to convert downloaded programs from TIBBS or CIS. These programs are available in the HUG library.

With this technique I have generated large numbers of data statements in a short span of time. This approach gives you easy error checking, saves time, and affords the programmer flexability.

Assembly language programmers can use this same technique by modifying line 70 above to conform to the assembler fields. Use the COPY assembler directive to have the data included in the assembled program.

July HUG Meeting Frogram

In the last few months I have tried to cover a wide variety of subjects for HUG meeting programs. From tutorials on various languages, demonstrations of new programs and software, and even a quick "look-see" at the HUG-TIBBS. But this month it's back to basics. TI-BASIC that is. This month the meeting program will highlight BASIC programing.

The main topic will deal with file handling. How does one create a file? Save a file? Retreave a0file, and then manipulate that file? These are the areas that Don Lewis, who is the guest speaker this month, will cover. If you have ever heard Don present a topic, you know that he starts with the basics and before he is through, everyone knows very clearly what is being presented. I think the discussion will be very informative and enlightening.

On a different note, I have repeatedly asked the HUS membership for suggestions on topics for meetings. I have received very few suggestions. The program today is a direct result of a member's request for this specific topic. To have interesting programs, I need suggestions for future programs and volunteers to present the programs. I still have many ideas that I think will satisfy most of the membership. However, Owith little or no feedback, it is hard to determine if the general interest is satisfied. Let me know what you are interested in hearing about, what subjects you need help with, and also are there any speekers who would be worthwhile bringing in to talk to us. Talk with any of the officers, leave me a message on HUG-TIBBS or give me a call. I will be very happy to hear from anyone.

Sandor A. Karpathy, VP Programing

For the month of July, the HUG meeting program will focus on BASIC programing. We will deal primarily with setting up, handling, saving, and manipulating of files.

Sandor A. Karpathy, VP Programing

TI-HUG MINUTES June 2, 1985

The regular conthly meeting of the Houston Users' Group was called to order by President Bill Knecht at 2:05 p.m. at St. John's School, 2401 Claremont, Houston, Texas.

Visitors were invited to introduce themselves, after which the officers present were introduced. A Motion was introduced and seconded to accept the Minutes of the May meeting as published in the Newsletter. MOTION PASSED. Treasurer David Mather reported that the balance on hand is \$2,525.01. There were no questions.

Under Old Business President Knecht read the letter of resignation from SYSOP Stephen Foster stating to a standing ovation that the letter was accepted with regret to Mr. Foster for his dedication to both the Bulletin Board and the Houston Users' Group. He was then presented with a framed Certificate of Appreciation.

A Motion was made to accept the resignation of Newsletter Editor Cecil Crowder so that he could accept the position of SYSOP, and to pay for the installation of a telephone line at Crowder's residence at a cost of \$119.00. MOTION PASSED.

A Motion was introduced granting Stephem Foster the title of "Honorary SYSOP" with a paid up life time membership to the Houston Users' Group. MOTION PASSED.

The name of new member Rogers Mills, from Florida, was introduced in a Motion by Don Lewis to appoint Mr. Mills Newsletter Editor. MOTION PASSED.

President Knecht reported that the next three months' meetings could not be held on the first Sunday of the month (July and September due to Holidays, and August due to unavailability of the building) so the meetings are scheduled for July 14, August 11 and September 8, respectively. The August meeting was suggested as a family-type picnic get-together, weather permitting, and the decision to have it as such was voted upon. MOTION PASSED. Mark Crump and Don Lewis volunteer to serve as Co-Chairmen for the picnic committee for the August meeting.

SYSOP Cecil Crowder reported that the Bulletia Board, TIBBS, has enjoyed a number one rating across the United States and in order to maintain the rating new and expanded equipment will be required to replace some of the present. A Motion was introduced by Don Lewis, seconded by Lucia Greer, to provide funds not to exceed \$350.00 to cover the cost for three double-sided double-density disk drives, two power supplies. necessary cables and other incidental equipment necessary. MOTION PASSED.

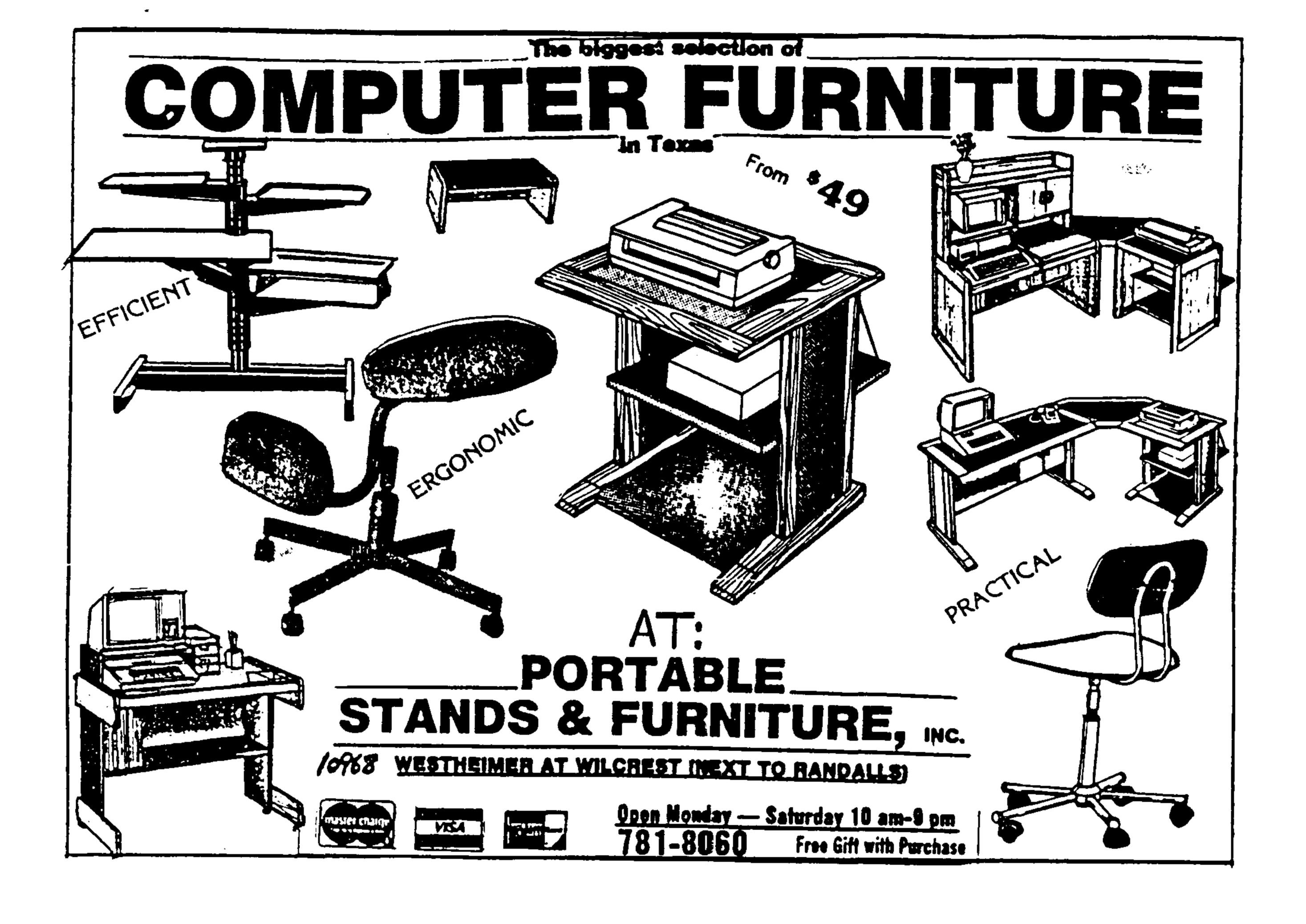
President Knecht reported that many officers used their personal computer equipment on behalf of the Group and should be due partial reimbursement to cover costs of repairs and/or replacement. Don Lewis introduced the Motion that a Committee be appointed to consider partial reimbursement for member-used equipment. MOTION PASSED. Immediate Past-President Nayme Wright was appointed Chairman, with members Philip Poxon, Bill Rister and Dave Sholmire.

There being no more business to undertake the frogram began after Cecil Crowder won the raffle drawing of a graphics program. Paul Hutmacher and Bill Knecht demonstrated how one can log on to the Flagship Bulletin Board, our TIBBS, and the Phoenix. An explanation of down-loading was followed by a question and answer period. A demonstration by Dave Sholmire covered a new program, entitled Bitmac, from DataBioTics, Inc. with the capability of saving to loading screens from disk in color, creating and dumping screens to a printer.

President Knecht adjourned the meeting at 4:13 p.m..

Respectfully submitted, Lucia C. Greer, Secretary

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HU6 EDITORIAL POLICY

It is the policy of the Editor to set forth the guidelines of content for the Newsletter. The position of the Editor is to insure a readable content of the newsletter for the general reader or consumer of the information on the TI home computer. It is the intent to inform and promote the use of the TI 99/4A. The primary objective of the newsletter is to keep the general membership of the Houston Users Group and other TI 99/4A users informed on the use, programming and general interest of the club. The opinions expressed in any article does not necessarily reflect the official position of the HUG Board, officers or club. All articles are submitted for publication must conform to a family orientated posture. Neither the Editor nor his staff are responsible for damage resulting from the use or construction of any device listed in or written about in this publication. All articles and advertisements must be submitted prior to the 15 th of each month. HUG nor its staff make no warranties as to the software and or programs listed in the HUG. Articles found in the HUG not copyrighted maybe reproduced by other organizations provided that proper recognition of the HUS

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All advertisements must be submitted photo-ready and by the 15 the of each month. The appearance of any advertisement in the HUG is not an endorsement of the products being advertised.

Rogers Hills Editor

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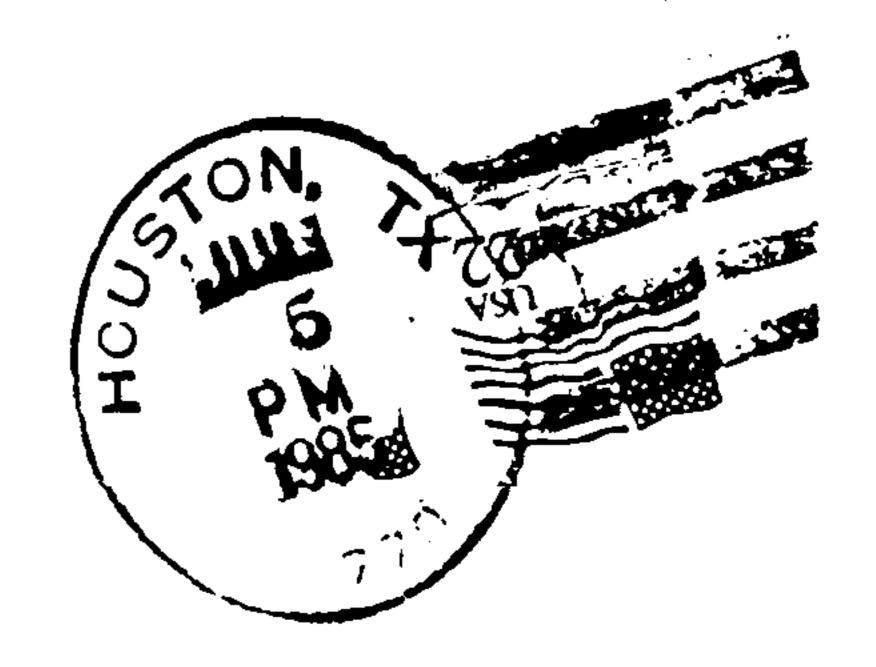
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