

MAY 1985

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PROF. OF HUD
SET "A"

C/O R. Lumpkin

Houston Texas

713-469-5089

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HUG TIBBS - (713) 699-2073 24-hour BULLETIN BOARD MEETING SCHEDULE FIRST SUNDAY OF EVERY MONTH (2nd Sunday if 1st Sunday is on a holliday weekend)

# AT THE NEXT MEETING

SUNDAY, MAY 5, 1985 2:00 P.M. SHARP

St. John's School - 2401 Clairemont

The HUG meeting program this month will feature President Bill Knecht teaching one of his specialities, MUSIC. If you like music and do or do not program or even read music but would like to learn to program or just pick up some pointers to improve what you do know this is the program for you. See you at the meeting. (see page 3)

# IN THIS ISSUE

NEXT MEETING . MINUTES PRESIDENT'S REPORT LIBRARY UPDATE TI-WRITER & MORE

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# 1985 HUG OFFICERS

President --- BILL KNECHT ... 473-5713

VP/Membership DON LEWIS ... 353-5295

VP/Program -- SANDOR KARPATHY 955-1138

VP/S.I.G. --- ... 850-0222

Secretary - CHIA GREER ... 568-4500
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Librarian - LARRY PIPKIN . 499-9991
TIBBS/SysOp STEPHEN FOSTER unlisted
Editor ---- CECIL CROWDER 487-5530

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HUG MAY 85 page 2

# TI-HUG MINUTES APRIL 14, 1985

The regular monthly meeting was called to order by President Bill Knech at 2:06 p.m., and visitors were asked to introduce themselves. SIG VP Larry Pipkin reported activity was continuing with the various groups and invited those who were interested to sign up. Program VP Sandor Karpathy said that the May and June meetings would include Music, a closer look at Printers, and how to log on to a Bulletin Board. Treasurer Bavid Mather reported that the net income over expenditures for this year was \$1843.83 with a carry-over from 1984 bringing the total surplus to \$2803.23, and expressed the pointon that he felt operations were right on budget. Newsletter Editor Cecil Crowder, announced an early deadline occasioned by the short booth created by the meeting being held on the second Sunday this month. The Secretary asked that if there were no corrections the Minutes of the March meeting be accepted as published in the Newsletter. Motion passed. Pres. Knecht announced the resignation of Librarian Bill Rister who, because of a heavy business workload and the expansion of his own bulletin board, his time is limited, so he felt he could no longer continue adequately as Librarian. A motion was entered by Chia Greer, seconded by Cecil Crowder that Bill Rister's resignation be accepted with regrets and that the Minutes reflect with appreciation the very fine job Bill has done. Motion passed. Larry Pipkin accepted the position of Librarian (of Diskettes and Cassettes) leaving a vacancy in the position of VP \$15. There being no immediate candidates for that office, the item was tabled until the next meeting. A volunteer was sought to serve as Librarian of Publications: Mary Boyd volunteered and was confirmed for this new position.

Under New Business Pres. Knecht ammounced a Contest for the graphic design of the Astrodome which can be executed in any language. The contest rules were posted. There will be a panel of judges and a system of handicaps so a beginner can be fairly judged. Depending upon the mumber of submissions there will be three prizes in each category.

A discussion was held on various items concerning the Bulletin Board, i.e. active participation by our members is limited, and, insufficient contributions to the file areas. The situation will continue to be studied as well as means to widen the participation. There was discussion about limiting the Board to only II users, since much of the user time may be monopolized by non-HUG users who are not underwriting the costs.

The meeting continued with three members demonstrating various programs — Larry Pipkin showed the versatility of FORTH, the perfection of high resolution graphics, and various ways to utilize FORTH. Tony Johnson showed his re-styled keyboard which includes separate cursor direction keys, a numerical key pad among some of the visible changes. He showed a couple of prototypes of modified cartridge selectors handling up to eight cartridges with and without separate power sources re-located away from the sometimes-too-hot cartridge port. David Sholmire announced the availability of Tandon 65-L half-size double sided, double density disk drives which fit into the PEB in place of the single disk drive. He planned to demonstrate Navarone's Data Base Management program, but was unable to due to interference from the experimental equipment. He did demonstrate the program "Advanced Diagnostics" from Hiller Graphics available at a modest price for a large amount of capability in testing. The program is written by two engineers who were founders of Cor-Comp and now owners of their own software firm.

There being no more business, the meeting adjourned at 4:00 p.m.

Respectfully submitted, Lucia C. Greer

# Music on the TI-99/4A

To me, one of the most gratifying things about any hobby is to be able to produce something that you can show off and be proud of the quality that your workmanship, all by yourself has produced. Music on our "Orphan" is one of these and is one of the easiest to learn that I have been introduced to. You can be creative and create a style of your own and still use the basic program that many others use. Once you have learned to program you should be able to program in some music (not all) in not much more time that it would take to type in the program and debug it if it were printed in a magazine or newsletter.

Our President, Bill Knecht, is recognized among Tlers as one of the best music programmers around and will be teaching some of his music programming techniques at the May H.U.S. meeting. Don't miss this opportunity to learn from an expert!
... Cecil

The following was downloaded from Compuserve and should be of interest to east TI users.

APRIL 24, 1985

THE IUG HAS FILED FOR PROTECTION UNDER CHAPTER 7 OF THE FED. BANKRUPTCY ACT. ALL SOFTWARE LIBRARY ORDERS RECIEVED ON OR BEFORE APRIL 30, 1985 WILL BE SHIPPED PRIOR TO MAY 30, 1985. WE HIGHLY REGRET THIS ACTION BUT HAVE NO OTHER ALTERNATIVE AT THIS POINT. THE CURRENT LIBRARY AS WELL AS SOME 400 NEW PROGRAMS HAVE BEEN KEPT IN TACT AND WILL BE MARKETED BY A NEWLY FORMED COMPANY WHICH WILL BE ANNOUNCED ON 6/1.

THIS NEW COMPANY WILL USE THE CURRENT IUG CATALOGS AND PROGRAM NUMBERS SO THERE WILL DE NO CONFUSION TO NEW MEMBERS. I PERSONALLY FEEL DEEPLY SADDENED THAT THE QUALITY OF SERVICE THAT WE STRIVED FOR OVER THE PAST 5 YEARS HAS SUFFERED SO IN OUR LAST & MONTHS OF OPERATION AND HOPE THAT OUR THOUSANDS OF MEMBERS AND FRIENDS CAN UNDERSTAND THAT WE DID EVERYTHING IN OUR POWER TO CONTINUE TO SUPPORT OUR MEMBERS TO THE BITTER END. FOR THOSE HOSTILE MEMBERS WHO SEEN TO THINK THAT I HAVE AMASSED A PERSONAL FORTUNE FROM THE IUG PLEASE REST ASSURED THAT THIS IS NOT THE CASE.

THE FACT IS THAT WE COMMENTLY STAND TO LOOSE "EVERYTHING" THAT VIRGINIA AND I MAVE WORKED FOR OVER THE PAST 20 YEARS TO ASSURE THAT DUR MEMBERS AND CREDITORS ARE SATISFIED.

### CHARLES LA FAMA

PRESIDENT'S REPORT

If you missed the last HUS meeting, you missed a good business session and a fine demonstration on Using FORTH by Larry Pipkin. Tony Johnson demonstrated a new portable keyboard he built which features a number keypad and several additional keys. He also had some cartridge expanders in the 4 and 8 slet versions. And David Sholaire showed the new Miller's Graphics Advanced Diagnostics program.

Along the line of business we accepted the resignation of Librarian Bill Rister and voted his replacement, Larry Pipkin. I would like to tell Bill how much we appreciate all he has done for the Library the past year and that we regret his resigning, but understand. Larry's position of SIG Vice-President is now vacant, but several individuals have volunteered to serve. We are presently setting up a Newsletter Library so members may get copies of other groups' publication for their education and enjoyment. Mary Boyd has volunteered to head up this project.

We also voted to hold a programming contest in Graphics, writing a program featuring the Astrodome. Entries are due in at the May meeting and awards will be presented in June. If this contest is successful, we will

be holding several more... be watching for details. We also decided to start selling chances on a door prize each month. This will probably be software worth around \$40. Tickets will be \$1.00 each.

So if you missed the last meeting, you can see that we accomplished much. One word on the upcoming meeting... part of the program will feature music programming. This will be aimed at the beginner and at someone who may not even be able to read music. Music programs are some of the easiest to write, so try to be there to see how it is done.

I will close by saying thanks to Larry, Tony, Dave, Mary and everyone who attended the last meeting. You have shown that dedication to HUG and the TI-99/4A is still strong.

#### Bill W. Knecht

# MAY HUG HEETING:

This month the subject is MUSIC, MUSIC. and more MUSIC. This "Orphan" machine of ours has one of the best music generators of all the computers around and to show off what it can do, our own BILL KNECT has been asked to conduct.

Just to bring those of you who have not tried to program music up to date, very little equipment is needed. Basicaly, only the console and a television are required. The music is generated by the computer's three music generators that are activated by the use of CALL SOUND commands. In addition, a fourth sound can be utilized from the machines "noise" generating capacity. When put all together fantastic things can be heard. Various methods of coding music will be discused in addition to the lively demonstration. A handout will be provided.

Bill has written numerous programs for his entertainment; and with every new piece his talent seems to improve. A number of his creations have been submitted to the library and can be easily obtained. This meeting is a must for those of you who do not have a full blown system and are limited to the console itself.

Next month we will try something different. At most of the HUG meetings we hear considerable conversation conserning our bulletin board. Mords like "Baud Rate. Modem, Download, Upload, and Terminal Emulators" are constantly discussed. Most of us who do not have a full system that can utilize a modem, don't know what all the fuss is about. To better understand what "Online communication" is all about, our program topic will be about Bulletin Boards and Tele-communications. If all goes well, we will try to the into the club's own BBS system and provide a live demonstration. In addition, helpful hints will be given on the utilization of the national systems like Compuserve and the Source.

If you have additional interests let me know.

Sandor Karpathy, V.P.Programs

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DownLoaded from Gary Blaydenburd's

TI-WRITER HELP FILE pt(2)

Now I want to cover the Text Formatter, which prints out the document.

Most importantly, the special symbols, called Format Commands, that the formatter uses to alter the print-out of the document, which are installed in the Text Editor.

In other words, you put these commands into the text when you write it and as the formatter comes across them it changes the text accordingly but doesn't actually print the symbols.

There are six groups of formatter commands that are all applied in a similar manner. All commands must be in caps and must be on a line that starts with a period.
```

Text Dimension commands, as the name implies, move or shape the words in the document (margins, linespacing, right justify, etc.)

.FI : FILL : PUTS AS MANY WORDS ON A LINE AS WILL FIT.

.NF : NO FILL : CANCELS FILL.

.AD : ADJUST : ALIGNS THE TEXT TO THE LEFT AND RIGHT MARGINS. (RT. JUSTIFY)

.NA : NO ADJUST: CANCELS ADJUST.

.LM n : LF MARGIN: SETS LEFT MARGIN TO "n".

.RM n : RT MARGIN: SETS RIGHT MARGIN TO "n".

.IN n : INDENT : CREATES AN AUTO-INDENT FROM LEFT MARGIN.

.LS n : LINE SP : SETS LINE SPACING TO "n" LINES.

.PL n : PG LENGTH: DEFINES NUMBER OF LINES TO A PAGE.

.BP : BEGIN PG : DEFINES FIRST LINE OF NEW PAGE.

Internal Format commands control the spacing of characters on a line.

.SP n : SPACE : SIMILAR TO THE TAB FUNCTION.

CE n : CENTER : CENTERS NEXI "n" LINES BETWEEN MARGINS.

Highlighting commands control functions such as underline or bold and allow you to redefine characters to use them to send CTRL codes to the printer.

\* REQUIRED : JOINS WORDS TOGETHER WHEN REQUIRED TO PREVENT SPLITTING IN : SPACE : REFORMATING, UNDERLINE, ETC.

8 : UNDERLINE: (UNDERSCORE) UNDERLINES ALL TEXT FOLLOWING UNTIL NEXT PACE.

e : BOLD : (OVERSTRIKE) RETYPES FOLLOWING TEXT FOUR TIMES.

.TL xx: TRANS- : ALLOWS REASSIGNMENT OF ONE CHARACTER TO REPRESENT A NUMBER : LITERATE : OF CHARACTER VALUES TO SEND CODES TO THE PRINTER.

.CO t : COMMENT : SIMILAR TO REM IN BASIC--ALLOWS NOTES THAT DONI PRINT.

Page identification commands print notes in the upper or lower corner of each page, either headers or footers.

.HE t : HEADER : PRINTS TEXT (t) AND PAGE NUMBER AT TOP OF EACH PAGE.
.FO t : FOOTER : PRINTS TEXT (t) AND PAGE NUMBER AT BOTTOM OF EACH PAGE.
.PA : PAGE # : RESETS PAGE NUMBER IN .HE AND .FO

File management commands

.IF f : INCLUDE : MERGES A FILE TO PRINT A DOCUMENT TOO LARGE FOR ONE FILE. : FILE :

Mail Merge option commands are used to supply values to the variables in a letter that has been set up for the mail merge option

.ML f : MAIL LIST: IDENTIFIES VALUE FILE (f) FOR MAIL LIST.

\*n\* : UARIABLE : INSERTED IN TEXT AS VARIABLE FOR ASSIGNMENT FROM VALUE FILE.

.DP n:t:DISPLAY : PROMPTS YOU USING TEXT "t" TO ASSIGN TO VARIABLE (\*n\*).

: PROMPT :

The use of these commands in your text is what separates the word processor from a typewriter. They allow you to get the most out of your printer.

So, now you've written your document, and inserted all the format commands, now how do you print it out? First, save the document and exit the Text Editor. At the title menu, select Text formatter, (make sure the program disk is in the drive) and the screen will blank with the prompt "ENTER INPUT FILENAME". Enter the name of the file you just saved, (ex. DSK1.MYFILE) and hienter.

Next, the prompt "ENTER PRINT DEVICENAME" appears after the file is loaded. If you use a serial printer, the device name would be RS232.BA=xxx with xxx being the boud rate. If you're using a parallel printer, the device name is PIO. Also, you must add either .CR or .LF to the end of the device name. This tells TI-Writer wether you're printer will handle the carriage return or the line feed. Check you're printer manual and the TI-Writer manual in detail to find out which you use.

The next prompt is "USE MAILING LIST". If you oren't printing "form letters" just hit enter to occept the default of N (NO).

Next is "WHAT PAGE(S)? <ALL>. If you want to print the whole document, accept the default for all pages. Otherwise, you can print any of the pages or groups of pages.

The prompt "NUMBER OF COPIES: 1" tells how many copies of each page are to be printed.

The last prompt is "PAUSE AT END OF PAGE? N". The main purpose of this function is if you are using separate sheets of paper it will stop and wait for you to align the next sheet. Another use is to save a little paper. TI-Writer has an annoying habit of scrolling one whole blank page up before starting to print, which is not that big of a deal since what's one piece of paper worth considering how much you go through normally. But if you're just running test samples of type styles, or the like, you end up with a lot of white paper at you're feet. To prevent this, type "Y" and turn off you're printer. Now hit enter and turn the printer on, you should see "PRESS ENTER TO CONTINUE" (the software thinks one page has been printed). If not, turn the printer on and off again. Now you align the paper to the top of the page and hit enter and the printing begins. But if it's a long letter, you'll have to sit there and hit enter after each page so usually it's better to select the default when using continuous feed paper.

Now, about the Mailing List Option. Let's say you've written a form letter to send out to various individuals, maybe a resume'. You write the letter like normal, but when you come to a name or address or something that will change with each letter, you put in it's place a variable in the form of \*n\*, where n is a number to identify the order. So instead of starting off with: "Dear Mr. Smith" you would have "Bear Mr. ^1\*" and so on, when you're all through with your letter, save it and purge the memory. Now you must create what is called a Value File, which is your mailing list where TI-Writer will draw the variables from. A value file consists of a list values to be inserted into the letter, listed one to a line, preceded by the number of the variable and ending with a carriage return symbol. Groups of values must be separated by a line with just an asterisk and a carriage return. For example:

- 1 John Smith
- 2 123 STREET
- 3 Seattle, WA
- 1 Jane Doe
- 2 456 STREET
- 3 Seattle, WA

At the top of your letter you insert the .ML f command where f equals the filename of your value file. After selecting the mailing list option the computer will use this command to fill in the variables. If there is no .ML

command in the latter then when you are prompted for "MAILING LIST NAME:" you supply the filename. This allows you to call on a number of files for different groups.

Another way to insert values is to use the Define Prompt command. With this command you do not insert a .ML command calling a value file and instead you insert lines containing the format: .DP n:t - where n is the number of the variable and t is the prompt text. Now, when you came to the prompt "USE MAILING LIST?" you select "N" for NO and as the document is printed when a variable is encountered the printing stops and the text you chose appears on the screen asking you for the appropriate value. If you don't include a ".DP n:t" command in your text, the computer responds with "ENTER DATA FOR VARIABLE "n"" and it can get confusing trying to remember which item you're on. This method is handy for letters which you only want to print one copy at different times to different people.

Let me tell you, this is why I bought a computer. I'm sure we all went through that period of time before buying a computer when we would ask: "what am I going to use a computer for, anyway?". Well I decided there were two things I wanted to do: 1] Store files of data (recipes, albums, Etc.) and 2] Use my computer as a typewriter. I didn't know about II-WRITER when I bought the 99/4A, but now I know that I made the best choice possible. I hope you will all find II-WRITER as easy to use and as powerful as I have.

# WITH CALL CHAR STATEMENTS

If you are writing a program in Extended BASIC and using several CALL CHAR statements, there is a way to do it and use less memory.

Let's say you were redefining characters 40-43 to use in graphics. One way is to type in 4 CALL CHAR statements:

CALL CHAR(40, 'FFFFFFFFFFFFFF')

CALL CHAR(41, 'FOF0303000000FFFF')

CALL CHAR(42,'000000000000F0F0')

CALL CHAR (43, 'FFFF01030700FFFF')

This method uses 140 Bytes of memory.

Another method is to use the statement FOR I=40 TO 43:: READ IS:: CALL CHAR(I,IS):: NEXT I then list the pattern-identifier characters in a DATA statement. This method uses less memory than the one above, only 121 Bytes.

But in Extended BASIC there is another way I have come across that uses only 86 Bytes. Your statement would be:

This final illustration will redefine all four of the characters (40-43) by using the 64 pattern-identifier characters, i.e. the 16 pattern-identifier characters for the 4 character codes.

This method will also work on redefining 2, 3 or 4 characters, but the character codes you are redefining must be in numeric order (41,42,43,44 etc.). You will notice quite a bit of memory savings if you are redefining a lot of characters in your program. Sive it a try.—Bill Knecht

# TI-WRITER STAR SG 10 PRINTERS

TT-Writer has been popular for a long time as a word processor, but with the advent of extended basic loaders and especially TK-Writer (Tom Knight's freeware, IB loader) it is even more popular than before. This is one of the reasons that I inserted the two part tutor; al in the last two HUS newsletters.

As with all products there are those which complain about everything and the same is here ... but I personally haven't heard anyone come up with a better solution than II-Writer and usually the one that is making the complaint is no where near proficient with that product.

When I was elected newsletter editor I had the module ect. but had no experience in the operation of it. Now I am very confortable with it and can do just about anything that I desire to with it including graphics. (see front page HUS and console)

In the first part of the TI-N tutorial one of the things the writer considered to be of most importance is the choice of a printer because that is what determines the final result. I would like to recommend the Star S6 10 printer because of all the features that it has. Basically it will do anything that the Star 10% will plus NEAR LETTER QUALITY and IBM COMPATABLE just in case you are thinking of upgrading your complete system. All the dip switches are readily available on the outside of the printer but you can go from near letter quality to any other print with just a software command. There is much more that I could say about the printer including the BARGAIN PRICE but will just say that all this newsletter except page 10 was printed with my S6 10. COMPARE LOOKS & CHECK PRICES.

TIPS FROM THE TISERCUS

**e**21

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Distributed by Tigercub Software to II-99/4A Users proups. procotional surposes and in exchange for their newsletters. May be regristed ROA-Brotit users groups, with credit to Transcub Software.

The entire contents of line from the ligercub Nos. 1 through 14, with sore a full disk of 50 programs. routines and files for just \$15.00 postpaid!

wate & potte 15 4 diskfull of 100 ithat's right. 100!) IBasic utility subprograms in MERSE format. ready for you to serge into your owe programs. Contents include 13 type fonts, 14 saving and reading routines. 9 wipes, 8 pauses, 6 susic, 2 protection, etc., and now also a tutorial on using subprograms, all for just \$19.45 postpaid!

And I have about 140 at only \$3.00 each! (plus \$1.50 per order for casetts. packing and postage, or \$3.00 for diskette, PPM) Some waters groups charge their members that much for public domain programs! [ will send you by descriptive catalog for a dollar, which you can then deduct from your first order.

i thought that ay 20-Column Converter, as oublished in Tips 418. was IF A=128 THEM A=44 ELSE IF

trest (A . tooleroot. tut sommene found a way to print a program incorrectly with 15

I's sure you know that characters 127-143, and en up to 157 in Besic, can be redefined and used in graphics. You probably also them that these redefined characters can be put into PRINT DISPLAY AT Of statements, by holding down the CTRL key as you type them. If you load a program CONCAIRING SUCh redefined characters and LIST it, they mil appear as blanks. If you fill the program, so that they are redefined by the them LIST it again, they will show uo. 1.0 their added, are now available as reductioned fore - but if you prist out the progres on printer, they will YOUT stall appear as blanks. So, poters Aor publish a progras, it's a good idea to RUM It and LIST it, and look tor any of those greatins.

publish such a program, this d 128 to 255 fix wall take care of it by text display routines, 12 underlining all characters ters below 32 or above 159 c sorts and shuffles. 9 data that must be typed with CTRL down lexcept that lower case v is typed with fCTM down). It's slow, so only use it when you need to.

190 LF 85="E" THEN 195 II PR INT 621".TL 1241941" II PRIN MOPORSTUVEIYZ[\]^ 'abcdefgh other absolutely original T 02s°. TL 123:64; :: PRINT programs in Basic and IBasic #21". Th 125:38:" is PRINT #2 140 #28=" 1".TL 1241421" 11 PRINT 021" .IL 92:461" 1: PRINT #21".NF

> 195 PRINT "Does the progras contain": "redefined characte 170 MS-MS-M25 rs above "1"ASCII 126? (Y/N)" 196 ACCEPT AT (24, 1) VALIDATE ( "YN"} : 2Q5 282 IF 885="N" THEM 290 283 FOR J=1 TO LEN(LS) 284 A-ASC(SESS(LE, J. 1)) :: IF ACIZ7 THEN L25-L25&CHR\$(A) 1 SOTE 298 285 IF A-127 THEN A-118 ELSE

A-135 THEN A-44 ELBE IF A-15 4 THEM A-ST ELBE IF A-157 TH EN A-61 ELSE IF A-158 THEN A -56 ELSE IF A-159 THEN A-57 ELSE A-4-M 286 L20-L28LCHR (27) LCHR (45

)&CHR#(1)&CHR#(A)&CHR#(27)&C MS(45)&DMS(0)

286 NEIT J to LE-L26 to L26-

That should do it, unless the number of added control characters stretches the line beyond characters. Such is the with the following. Case which I had to type in manually (it also contains low AGCII characters which controls).

# TISENCUS CHALLENGE

100! The Unprintable Unkeyabl e frograe! 110:To shuffle the numbers 1 to 255 into a randoo sequen ce without dugilication 120:The strings contain the If you do want to ASCII characters 1 to 127 an

130! Most of the ASCII charac annot be input from the teyt oard

140!Se how was this program programmed? 150 RS=\*

!**""#62&"**() \$+,-./0 123456789::<=>?@ABCBEFEHIJKL ijkleneperstuvunyz(i)"

180 L-LEN(MS):: RANDONIZE :: I=INT(LIRNO+1):: N=ASC(SE66 (Ms, I, 1)) 1: Ms=8E56(Rs, 1, 1-1 ) & 8E64 (RS, 1+1, LEN (RS) ) 190 PRINT NIII IF LEN(RS)=0 THEM STOP ELSE 130

GROCERY SHOPPING LIST

Are you desperate for some way to convince your wife that your computer and PEB and printer and all are not just a too-expensive plaything? Raybe this will do the job.

The first thing to do is to prepare a file of the grocery items she eight want to buy. It especially useful if you can list the itees in the sequence in which she will come to them in the aisles of her favorite store. This little prograe will set up CML CHAR statements, and the printer sisinterprets as the file. Type END when you are finished.

> 100 OPEN 411"DSK1.BUYLIST",0 UTPUT 110 INPUT AS 120 IF AS="END" THEN 150 130 PRINT GLIAS 140 **60**10 110 150 CL08E 41

> If you have II-Writer, you can also use that to create the file, edit it and add to it - but BE SURE to delete all the carriage return symbols and any blank lines at the end. Save it under the filename BUYLIST.

> Mext, this program will hopefully get your wife to actually sit down at the keyboard and try out your It will qo computer. through the list and ask if she wants to buy. If she types in any quantity other than 0, it will output the itee name and quantity to the printer. At the end, she will be given the opportunity to add any other itees.

100 CALL CLEAR 110 OPEN 01: DSK1.BUYLIST, I MPUT 120 OPEN 421 PIO 130 LIMPUT BLIAS 140 IF EOF(1) THEM 210

150 DISPLAY AT(12.1):AS 1e0 DISPLAY AT(12, LEN(AS)+2) 1.0. 170 ACCEPT AT(12, LEN(A6)+2)8 1151-4118 180 IF 8=0 THEN 130 190 PRINT #21A62" "ESTRE (Q)& \* \*&CHK\$(175) 200 6010 130 210 DISPLAY ATTIZ. 17: ADDITE ONAL? Y" 220 ACCEPT AT(12.13) VALIDATE ("YN")SIZE(-1):09 230 IF us="N" THEN 300 240 DISPLAY AT (12, 1): "ITEM?" 250 ACCEPT AT(12,7):AS 260 DISPLAY AT (14, 1) 1 "BUANTI 143. 270 ACCEPT AT(14,11)19 280 PRINT 02:ASE" "ESTHS19) & \* \*\* \*\* \*\* (175) 290 6010 210 300 CLUSE 01 310 CLOSE #2 320 END

The list will be in enlarged print, so that no one in the store will see her putting on her reading spectacles. And after each item and quantity is a blank square to be checked off when she picks up the item.

You alont also soint out that she could use the checkoff blocks to sark the itees she has coupons for. and she could jot down prices on it to be sure she isn't at the cheated checkout counter, or to shoe petter tor pargains ei seuhere.

for the begins printer. You you delete a file, only its may need to change the "PIO" to the name of your printer. and other printers may not have the **Block** 0060 character CHR\$(175) available.

Of course, you can also use this program for more important things, such as for Shopping consuter software...!

If you type the person tey while holding down the

CTRL key, printer resulting interprets CHR6 (27), black space though consuter really CHR\$(155). Since CHR\$(27) is the EBC or "escape code" tells the erinter to mich following isterpret function characters consant cotes, you can for instance set up the printer eaghastzed ter double-width double-struck underlaned italics by OPEN 411.510. 11 143M1 411. E 9 #"LCHR\$(1)&" -"LCHR\$(1)&" 4 CTML . in the ", WELDQ dianks. peen HAVE mether ASLA SAGL TOOK JUS esetul teature. perforation. SELD-OVET PRINT 01: N°ACHRS(6), again with CIRL . in the blank, causes the paper to advance to the too of the mest page when there are only 6 lines left at the bettom of the sage (providing that you started at the top, of course). This makes it possible to List 'Pio" a program, or PF PIG from Il-Writer Editor, without printing right across the perforations.

Chosts! 31d you ever read data from a fale, and find that you were cetting data from a file that was no lenear on the dist? It can basses, at least if you are address is actually deleted - the data remesas on the disk until it is overwritten by a new file. If the new file is shorter than the eld one, and you try to read beyond the end of the file, you say awaken the chost!

Are you sating use of those special characters that are available on your Secial printer? You didn't thow about them? Iry this.

100 OPEN #1:"PIE" :: 110 PRINT 411" (held down the CTRL key and type 1234567/ and then held down the FCTM key and type (>/0: BMMLIMEY ) . RUM . Surprised? Some of these useful, such as the true division sign that you get with fCTN H. There are many more of these that you can CHKS. For a **ACC888** consists ist of thee and their CHKS codes, run this -100 OPER #1: PIO" :: FOR CH=160 TO 254 er PRINT DisCHICHROCCHOISE NEXT CH :: CLOSE #1. Unfortunately, these can't be used out of li-Writer.

Here's a handy little routine to practice up on your typing.

100 CALL CLEAR 110 CALL CHAR(94, "3C4299A1A1 99423C\*) 120 CALL SCREEN(5) 130 CALL VCHAR(1,31,1,96) 140 CALL COLOR(1,8,16) 150 FOR SEI-2 TO 12 160 CALL COLDRISET, 2, 16) 170 MEIT SET 180 PRINT TABLED); "TIGERCUS" : tTAB(B);"TOUCH-TYPING": :T AB(11); "TUTOR": :TAB(9); " T igercub Software's : 190 REM by Jie Peterson 200 PRINT . Match the scree n, not the": keyboard!": 1" Letters and musbers will\* 210 PRINT " appear on the SC reading from a MELATIVE file reem grid's in position cor The program is set up in the UPBATE mode. When responding's to their keybo ard position." I i Type the a and they will. 220 PRINT " disappear.": 1 1 " Press any key" 230 CALL KEY(O,K,BT) 240 IF BT=0 THEN 230 250 CALL CLEAR 260 CALL CHAR(32, "FF80808080 80808.) 270 CALL VCHAR(1,30,1,192) 290 CALL HCHAR(14,1,1,384) 290 CALL VCHAR(1,4,1,14):: C ALL VCHAR(5,6,1,11) 11 CALL V

CHAR(8,7,1,6):: CALL VCHAR(1

1,8,1,3):: CALL VCHAR(8,27,1

,4) 300 CALL VCHAR(11,28,1,3) 310 CALL CHAR148, 003A444C54 6444**36**°) 320 KEY4="1234567890=QMERTY". IOP/ASDFGHUKL; "ECHRO (13) &[ CVBIUR,." 330 RANGOMIZE 340 K-ASC (SEES (KEYS, INT (428R 100+11,111 350 608UB 370 360 6010 420 370 1=POS(KEYS, CHRS(K), 1) 380 Y-ABS(1)11)+ABS(1)22)+AB \$(1)33)+1 390 R-113 400 C=((1-ABS(Y)1)8(Y-1)811) **321+4+Y** 410 RETURN 420 CALL HCHARIR, C. KI 430 CALL KEY (3, K, ST) 440 IF 81-0 THEN 430 450 GOSUB 370 460 CALL GCHAR (R.C.S) 470 IF 6(>32 THEN 500 480 CALL SOUND (-100, 110, 0, -4 490 6010 340 500 CALL HCHAR (R, C, 32) 510 CALL SOUND (-100,1000,0,1 005,0) 520 6010 340

• . .

Here's one for the kids to have fun with. I'm sorry I lost track of MJO published it.

100 CALL INIT :: FOR J-1 T 100 11 PRINT J 11 FOR P=10w TO 1 STEP -J :: CALL LOAD(-31454, Plit WEIT P 11 MEXT J

**MEMORY FULL**,

Jie Peterson

# HUG MAY 85 page 9

# HUG LIBRARY CATALOG ADDENDUM May 1985

660 JESU, JOY OF MAN'S BESIRINGSIES, 32K & Disk Rod. Great Bach ausic with title screen by John Clulow. 36 sectors

661 IT CAME UPON THE HIBMIGHT CLEARSSIB Graphics title screen with music. 19 sectors

662 HOLY, HOLY, HOLY8888 Music with graphic of cross on the title screem. 14 sectors

563 SEASON'S GREETINGSSESS After entering your last name, your family's season's greetings is displayed to the accompliment of Christmas music. To quit the continuously running program, hold down any key when the music pauses. 29 sectors

1134 LET'S PLAY TRAINSSEED This early-learning program by Bill Knecht teaches your pre-school child to find keys. Pressing keys causes railroad cars to change shape, water tank and/or station to appear and disappear; train to speed up, slow down, stop, go forward and reverse; and the whistle to blow. Adults will like it too! 19 sectors

As those of you who attended the April meeting know, I have resigned and Larry Pipkin is now the new HUS Librarian. During my tenure this past year, I have enjoyed working with each of you and have made many new friends. While the job of librarian is very interesting, it is also very demanding of one's time. Due to a combination of my job, physical condition, and varied activities I had reached a point of having "too many irons in the fire" and could not spend the time required to properly maintain the library. I intend to remain active in HUS activities and spend some time catching up on my great love, programming. Larry is looking forward to serving as Librarian with great enthusiasm and I know he will do an excellent job. The library is experiencing a tremendous growth which will keep Larry very busy and I know that you will all give him the same wonderful support you have given me.

-Bill Rister

It has been suggested to the editor that a question and answer article be added to the newsletter. If you would like to see this addition please make it known through your participation. Send comments or questions to address on front of newsletter.

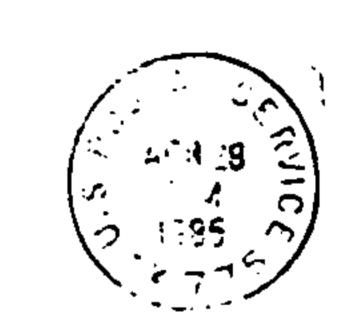
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