

Next Month — new location!

Save This Page!

PREVIEWS OF COMING ATTRACTIONS
STARTING IN SEPTEMBER!!!

Sept. 8th

NEW PLACE, NEW TIME

We're moving for the third time in our six-year history. As of September 8th we'll be at the SUNDERLAND ROAD COMMUNITY HOUSE on Route 20. This will be more convenient for many members and more inconvenient for some. We're certain that this move will be a positive one for the club. There will be facilities available to us that are not now.

When Bruce Willard learned we could no longer return to the Med Center as of September he immediately set to work to find us another place. As usual with Bruce, the task was done quickly, thoroughly, and efficiently. This was the best, inexpensive, centrally-located facility that could be found. And it is an excellent one.

In September we'll hold our regular meeting. In October we'll hold an open house (coupling another large newsletter effort to all former members) and hope that everyone will participate.

The club voted unanimously to move to this location and to change the night of the meetings from the third Tuesday of each month to the second. (This will eliminate the Thanksgiving/Christmas switching we do each year.)

The next meeting will be Sept. 8. The night of the Open House is set for October 13.

We hope everyone comes and renews friendships and finds fun.

XXXXXXXXXXXXXXXXXXXXXXXXXXXX

* NOTE: Park only in Polly's Restaurant - Lounge lot; not liquor store

Myarc's 9640 (the Geneve) Special in Sept.

Sept. - a Special Geneva Issue-

*** MORE PROGRAMS!**

We are looking for programs from books and magazines and newsletters (old but new to the club is okay) for typing in to add to our library.

Last year this project was very successful and all of us benefitted.

Here is how this group project works:

Those people who agree to type in the xeroxed programs that are brought in will receive a tape or disk of all the programs that are done by each participant that month. Most people type in a good-sized program or two smaller programs. This is a good way to develop your typing skills and, by the process of osmosis, some programming skills. It's fun. It's frustrating. It's free.

After typing and debugging, send the program on tape or disk to Jack Sughrue (Box 459, E. Douglas MA 01516). If it needs further debugging, mention the problem on a note and Jack will attempt to correct the problem.

Then on your tape or disk Jack will load all the other programs also typed in during the month and return your disk at the next meeting.

Identify the source in a beginning REM statement and put YOUR name as typist in a second and/or third REM at the start of each program. Date would be good, too.

Example:

10 REM MICROpendium 8/87

20 REM Typed beautifully by

30 REM Lobelia Rugwet 9/87

Help us to add to our library's extensive files and help yourself at the same time.

Every contributor is, after all, a beneficiary.

If you have programs you can share please bring copies to the meetings. We'll begin our Typing Trek this fall. Please let Jack know if you will participate and the kinds of programs you would like: children's, utilities, games, home applications, whatever; or something very specific like a program that lets you keep track of your video library.

Let US know what YOU want. That's what MUNCHing is all about.

HOME FRONT NEWS

M.U.N.C.H. recently received a notice from Texas Instruments that they have not sold any home computer products since April 1, 1984. "Referrals for sales should be made to third-party suppliers such as Triton (800/227-6900) and Tenex (800/348-2778).

*Please advise your members that Texas Instruments cannot sell home computer products, either new or used. We do still service TI-99/4A equipment at established service charges based on the model. Units can be sent prepaid and insured to the following address for service:

wH3333! we're moving in September! (the 8th)

I'VE GOT IT!..

...HAVE YOU?

HARDWARE MANUAL FOR THE TI 99 / 4A

IT DESCRIBES:

- CONSOLE DESIGN
- CUSTOM CHIP OPERATION
- TMS 9900 H/W ORGANIZATION
- TMS 9900 INSTRUCTION SET
- INTERFACING PITFALLS
- CONSOLE SCHEMATICS
- PEB CARD DESCRIPTION
- GROM SIMULATOR DESIGN
- EXTENDED BASIC MODULE DESCRIPTION & SCHEMATICS

WEEKEND HARDWARE SEMINAR (INFORMATION AVAILABLE ON REQUEST)

Send \$19.95 Check or Money Order To: (CANADA & FOREIGN SEND \$21.50 U.S. FUNDS) (VOLUME RATES AVAILABLE... ON REQUEST)

THE BUNYARD GROUP
PO BOX 53171, LUBBOCK, TX 79453

Texas Instruments Inc.
2305 North University Ave.
Lubbock TX 79408.

TI-99/4A owners can contact us for flat-rate service charges by writing to TEXAS INSTRUMENTS INC., P.O. Box 53, Lubbock TX 79408, or by calling a consumer representative at 806/747-1882.

PROGRAM OF THE MONTH

by Bob August (BUG News)

The program this month prints a catalog of your disk on 3 1/2 x 1 inch address labels to stick on the front of the disk jacket. The first version is in Basic and the second version is in Extended Basic. Change line 90 to agree with your printer configuration.

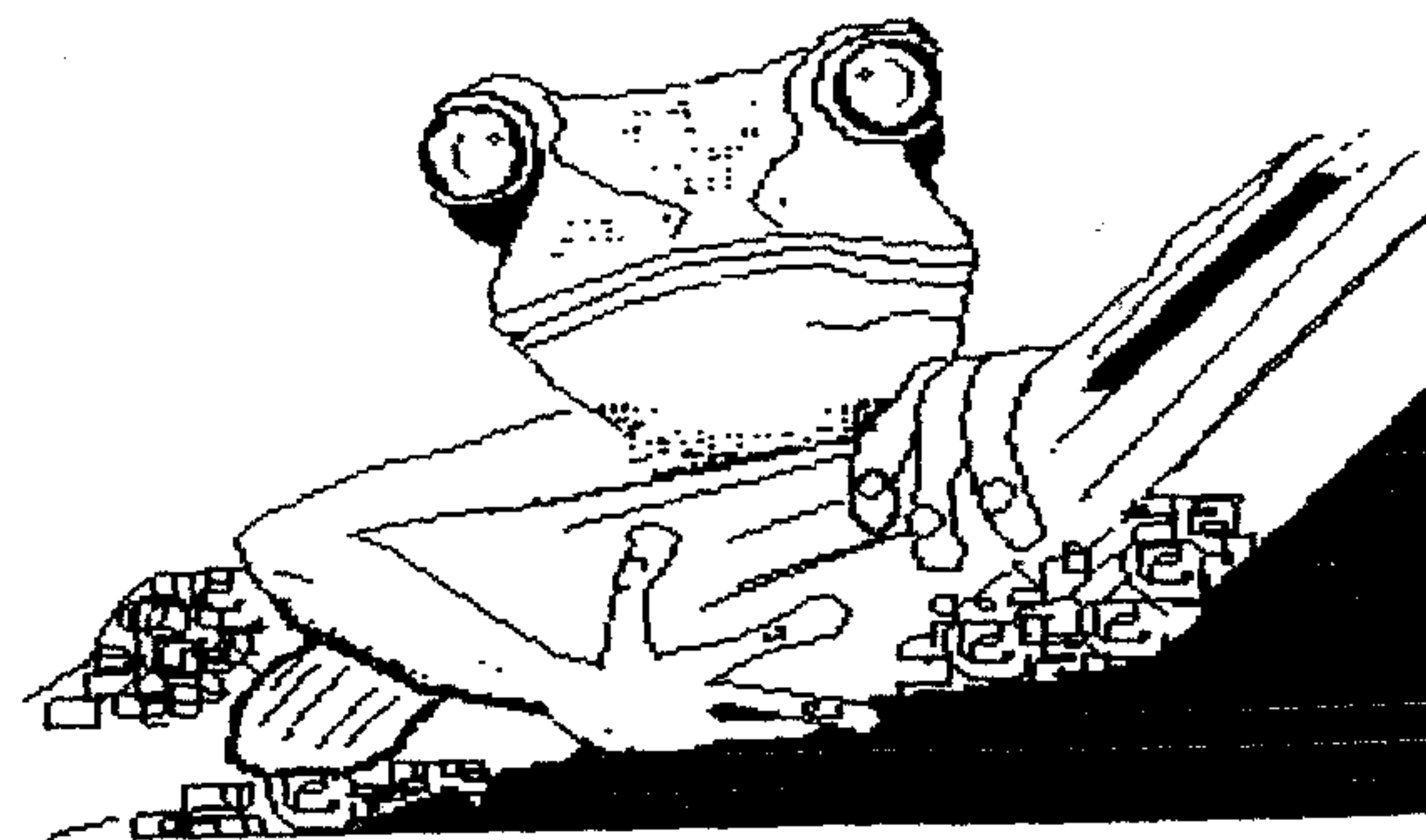
Basic version:

```
-----
90 PRINTER$="RS232.BA=9600.D
A=8"
100 REM < DISK LABEL >
110 REM < IN BASIC BY >
120 REM < R.W. AUGUST >
130 CALL CLEAR
140 PRINT TAB(7);"< DISK LAB
ELS >"
150 PRINT :::::"TODAY'S DATE
- ";
160 INPUT "":DATE$
170 Z=0
180 DIM TYPE$(5),B$(2),A(2),
B(2),C(2)
190 TYPE$(1)="DIS/FIX"
200 TYPE$(2)="DIS/VAR"
210 TYPE$(3)="INT/FIX"
220 TYPE$(4)="INT/VAR"
230 TYPE$(5)="PROGRAM"
240 OPEN #2:PRINTER$,VARIABLE
E 132
250 PRINT #2:CHR$(27);"0";CH
R$(15);
260 PRINT :"[ Printing Disk
label J]"
270 OPEN #1:"DSK1.",INPUT ,R
ELATIVE,INTERNAL
280 INPUT #1:A#,J,J,K
290 PRINT #2:"DISKNAME = ";
A#;TAB(27);"DATE PRINTED: ";
DATE$
300 PRINT #2:"AVAILABLE =";K;
TAB(27);"USED =";(J-K)+2
310 PRINT #2:"Filename Siz
e Type";TAB(27);"Filename
Size Type"
320 Z=3
330 FOR X=1 TO 2
340 INPUT #1:B$(X),A(X),B(X)
,C(X)
350 NEXT X
360 Z=Z+1
370 IF LEN(B$(1))=0 THEN 430
380 PRINT #2:B$(1);TAB(12);B
(1);TAB(17);TYPE$(ABS(A(1)))
;TAB(27);B$(2);TAB(38);B(2);
TAB(43);TYPE$(ABS(A(2)))
390 IF Z<6 THEN 420
400 PRINT #2::" "
410 Z=0
```

```
420 GOTO 330
430 CLOSE #1
440 PRINT #2::" "
450 PRINT :::"Another Copy or
Disk Y/N ":
460 INPUT "":Y$
470 IF Y$<>"Y" THEN 520
480 PRINT :::"Insert Disk int
o Drive 1"::"Then press <ENT
ER>"
490 CALL KEY(0,K,S)
500 IF K<>13 THEN 490
510 GOTO 270
520 PRINT #2:CHR$(18);CHR$(2
7);"2";
530 CLOSE #2
540 END
```

Extended Basic version

```
-----
90 PRINTER$="RS232.BA=9600.D
A=8"
100 ! DISK LABEL PROGRAMMED
110 ! IN EXTENDED BASIC
120 ! BY R.W. AUGUST
130 DISPLAY AT(8,7)ERASE ALL
::"< DISK LABELS >" :: DISPLA
Y AT(16,1):"TODAY'S DATE - "
:: ACCEPT AT(16,16)SIZE(8):
DATE$ :: Z=0
140 DIM TYPE$(5),B$(2),A(2),
B(2),C(2)
150 TYPE$(1)="DIS/FIX" :: TY
PE$(2)="DIS/VAR" :: TYPE$(3)
="INT/FIX" :: TYPE$(4)="INT/
VAR" :: TYPE$(5)="PROGRAM"
160 OPEN #2:PRINTER$,VARIABLE
E 132 :: PRINT #2:CHR$(27);"
0";CHR$(15);
170 OPEN #1:"DSK1.",INPUT ,R
ELATIVE,INTERNAL :: INPUT #1
:A#,J,J,K :: DISPLAY AT(20,1
):"[ Printing Disk label J]"
180 PRINT #2:"DISKNAME = ";
A#;TAB(27);"DATE PRINTED: ";
DATE$:"AVAILABLE =";K;TAB(27
);"USED =";(J-K)+2
```



MAX-RLE PIC (GRAPHX) printed on Gemini 10X

```
190 PRINT #2:"Filename Siz
e Type";TAB(27);"Filename
Size Type" :: Z=3
200 FOR X=1 TO 2 :: INPUT #1
:B$(X),A(X),B(X),C(X):: NEXT
X :: Z=Z+1 :: IF LEN(B$(1))
=0 THEN 240
210 PRINT #2:B$(1);TAB(12);B
(1);TAB(17);TYPE$(ABS(A(1)))
;TAB(27);B$(2);TAB(38);B(2);
TAB(43);TYPE$(ABS(A(2))):: I
F Z<6 THEN 230
220 PRINT #2: " " :: Z=0
230 GOTO 200
240 CLOSE #1 :: PRINT #2: "
```

```
250 DISPLAY AT(20,1):"Anothe
r Copy or Disk Y/N Y" :: ACC
EPT AT(20,26)SIZE(-1)VALIDAT
E("YN")BEEP:Y$ :: IF Y$<>"Y"
THEN 280
260 DISPLAY AT(20,1)BEEP:"In
sert Disk into Drive 1"::"T
hen press <ENTER>"
270 CALL KEY(0,K,S):: IF K<>
13 THEN 270 ELSE DISPLAY AT(
20,1):" " :: GOTO 170
280 PRINT #2:CHR$(18);CHR$(2
7);"2" :: CLOSE #2 :: END
```



WOULD YOU LIKE TO FIX THE "SCORE" IN
P I N B A L L ?

by JOHN WILLFORTH (WPUG)

HAVE YOU EVER WANTED TO FIX THE SCORE IN THE PINBALL . I'M NOT GOING TO LIST ALL THE REASONS THAT YOU MIGHT WANT TO DO THIS, BUT THERE WILL PROBABLY COME A TIME WHEN YOU WOULD LIKE TO DO SO. WELL I THOUGHT THAT I WOULD MAKE IT EASY FOR YOU. ALL YOU NEED IS A DISK EDITOR. YOU MAY USE "DISK SURGEON", "DISK FIXER", "DISCO", OR EVEN THE FORTH EDITOR. THE LATTER WILL REQUIRE MORE INFORMATION THAN I'M GOING TO PROVIDE HERE.

FIRST LOAD YOUR DISK EDITOR, AND THEN REMOVE THE DISK FROM THE DRIVE. BEFOR YOU CONTINUE, I THINK THAT YOU SHOULD REALIZE THAT IF YOU ARE NOT WORKING WITH A "BACK-UP" DISK, YOU MAY NEVER PLAY PINBALL , OR ANYTHING THAT IS ON THAT DISK AGAIN! SO FOR YOUR OWN SAKE, PLEASE BACKUP FIRST!

AFTER THE EDITOR IS LOADED, AND THE DISK CONTAINING PINBALL (WITH THE FILE PBSCORE ALSO PRESENT ON THE SAME DISK) IS INSERTED IN THE SELECTED DRIVE, BEGIN TO VIEW THE SECTORS, STARTING AT <1, AND CONTINUING UNTIL YOU SEE THE FILE " PBSCORE " DISPLAYED OR PRINTED IN THE INTERPRETED FIELD. NOW LOOK AT THIS SECTOR, PAYING PARTICULAR ATTENTION TO BYTE-PAIR <1C. THE CONTENTS OF THIS ADDRESS IS THE ADDRESS (SECTOR NUMBER) OF THE FIRST SECTOR IN THE FILE CALLED " PBSCORE " .

USING THE EDITOR, LOOK AT THE ADDRESS (SECTOR NUMBER) CALLED OUT FOR IN <1C. THE EXAMPLE ABOVE, SHOWS FIRST THAT ON MY DISK, PBSCORE IS FOUND TO START AT SECTOR NUMBER < 75. IF YOU ARE LOOKING AT THE INTERPRETED SECTOR, YOU WILL SEE THE DATA THAT WILL REPRESENT THE SCORE AND THE NAME (INITIALS) OF THE PLAYER, AND THIS WILL BE SEEN TO REPEAT FOR A TOTAL OF TEN REPETITIONS. IF YOU HAD WRITTEN DOWN THE SCORES AND THE INITIALS BEFORE THIS EDITING, YOU WOULD EASILY SEE THE FORMAT HERE. THE SCORE IN THE ABOVE EXAMPLE, SHOWS A SCORE OF 67,300 FOR JFW. THE LEAST SIGNIFICANT TWO ZEROS ARE INSERTED BY THE PROGRAM, AND THERE WERE NO MORE PLAYERS.

USING THE PROCEDURES THAT APPLY TO YOUR PARTICULAR DISK EDITOR, YOU CAN NOW CHANGE THE DATA IN THESE LOCATIONS TO MATCH WHATEVER YOU DESIRE. I HOPE THAT THIS SHORT ARTICLE WILL HELP SOME OF YOU TO ENJOY THE PINBALL GAME EVEN MORE. IMAGINE, YOU WITH A SCORE OF 93,673,428, AND NOT EVEN BREAKING A SWEAT!!

```
DISK SURGEON 99-----AMERISOFT INTERNATIONAL-----SECTOR=0008
>0  >2  >4  >6  >8  >A  >C  >E  INTERPRETATION
>00: 5042 5343 4F52 4520 2020 0000 0100 0001  PBSCORE *****
>10: 6400 0000 0000 0000 0000 0000 7500 0000  d*****
>20: 0000 0000 0000 0000 0000 0000 0000 0000  *****
>30: 0000 0000 0000 0000 0000 0000 0000 0000  *****
>40: 0000 0000 0000 0000 0000 0000 0000 0000  *****
>50: 0000 0000 0000 0000 0000 0000 0000 0000  *****
```

```
DISK SURGEON 99-----AMERISOFT INTERNATIONAL-----SECTOR=0075
>0  >2  >4  >6  >8  >A  >C  >E  INTERPRETATION
>00: 3030 3036 3733 4A46 5720 3030 3030 3030  000673JFW 000000
>10: 2020 2020 3030 3030 3030 2020 2020 3030  000000 00
>20: 3030 3030 2020 2020 3030 3030 3030 2020  0000 000000
>30: 2020 3030 3030 3030 2020 2020 3030 3030  000000 0000
>40: 3030 2020 2020 3030 3030 3030 2020 2020  00 000000
>50: 3030 3030 3030 2020 2020 3030 3030 3030  000000 000000
```

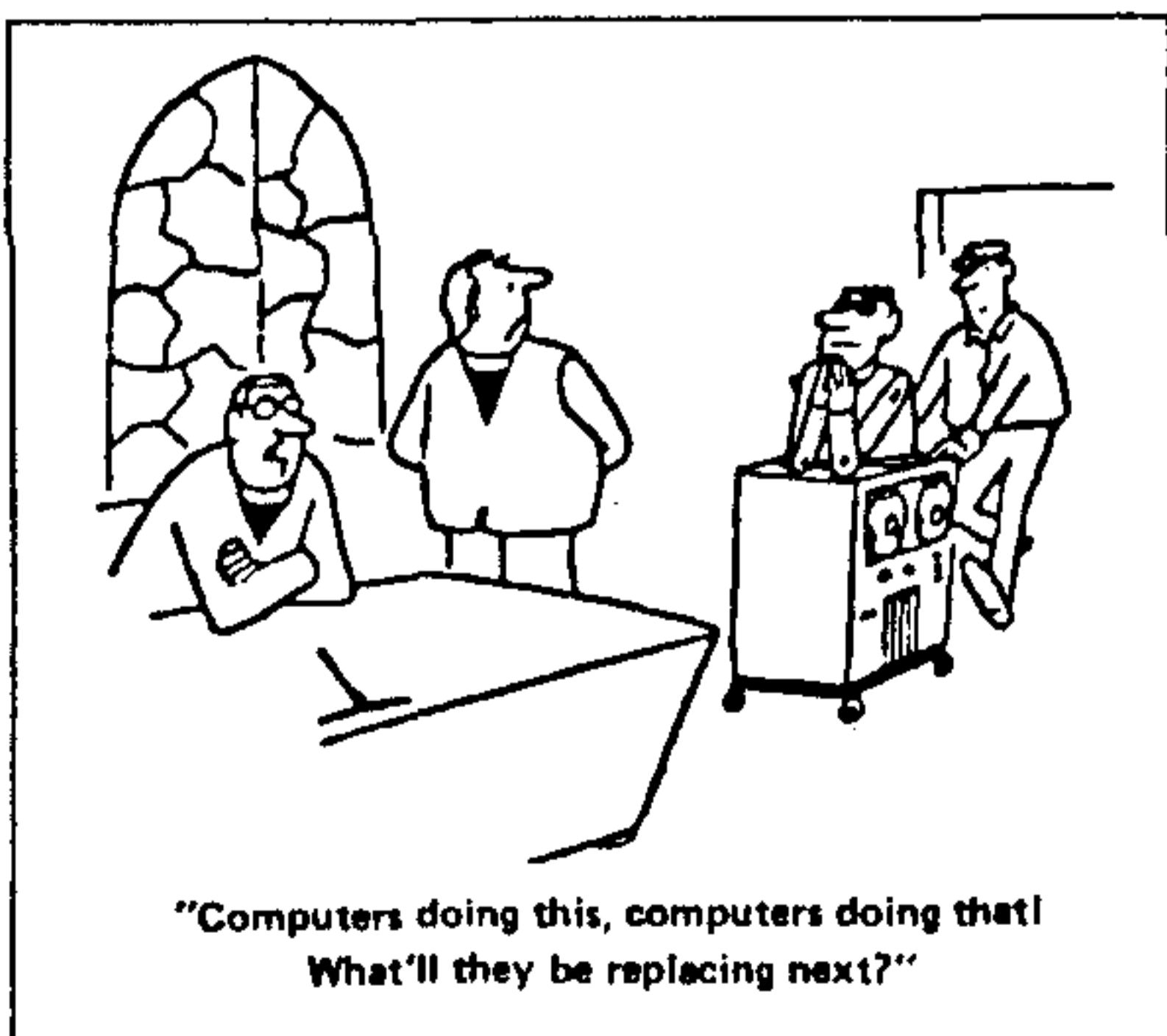
```
NAVARONE IND. 111 DISK FILER V1.0 11 SECTOR_DUMP SECTOR ADDRESS 0008
ADDR = 0 1 2 3 4 5 6 7 8 9 A B C D E F INTERPRETED
```

```
0000 = 5042 5343 4F52 4520 2020 0000 0100 0001  PBSCORE *****
0010 = 6400 0000 0000 0000 0000 0000 7500 0000  d*****
0020 = 0000 0000 0000 0000 0000 0000 0000 0000  *****
0030 = 0000 0000 0000 0000 0000 0000 0000 0000  *****
0040 = 0000 0000 0000 0000 0000 0000 0000 0000  *****
0050 = 0000 0000 0000 0000 0000 0000 0000 0000  *****
```

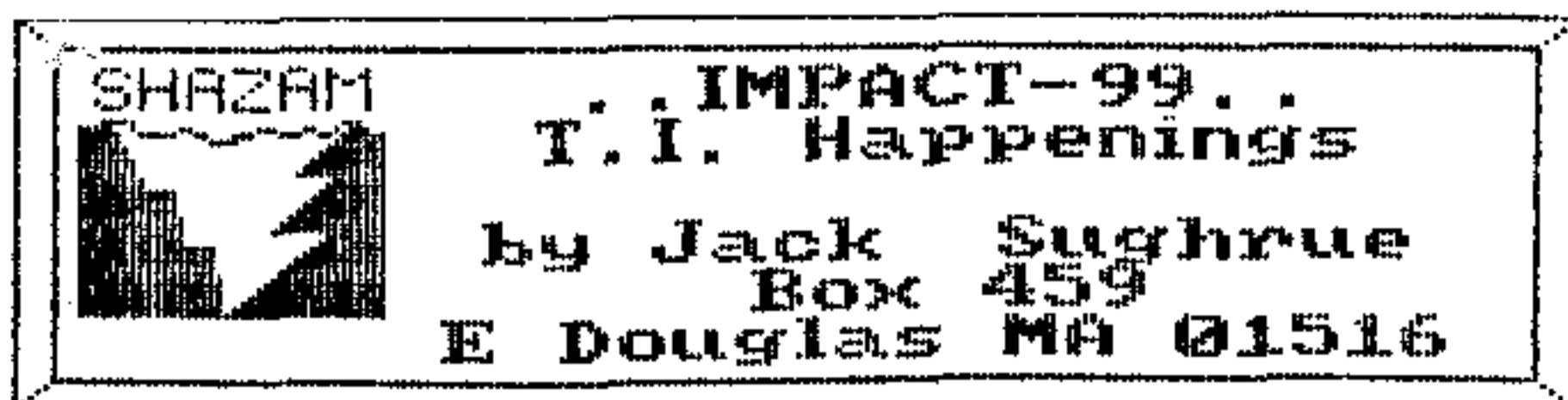
```
NAVARONE IND. 111 DISK FILER V1.0 11 SECTOR_DUMP SECTOR ADDRESS 0075
ADDR = 0 1 2 3 4 5 6 7 8 9 A B C D E F INTERPRETED
```

```
0000 = 3030 3036 3733 4A46 5720 3030 3030 3030  000673JFW 000000
0010 = 2020 2020 3030 3030 3030 2020 2020 3030  000000 00
0020 = 3030 3030 2020 2020 3030 3030 3030 2020  0000 000000
0030 = 2020 3030 3030 3030 2020 2020 3030 3030  000000 0000
0040 = 3030 2020 2020 3030 3030 3030 2020 2020  00 000000
0050 = 3030 3030 3030 2020 2020 3030 3030 3030  000000 000000
```

New Meeting Place Next Month!



-GRAPHX PIC THRU MAX-FILE ONTO IOX-



GOLDEN GOODIE

There is a Golden Goodie I would like to share with other wordprocessor buffs out there. It is called Utility Programs. Written by Tom Freeman from his LA newsletter columns, this disk contains some incredibly useful programs (and some less than useful [for me] but interesting nonetheless programs). The 32-page booklet (printed on gold-colored paper) is fairly easy to follow.

My primary interest in purchasing this package (\$8 from LA and worth it) was to get a working copy of the Quad Column program. I have typed in copies from Tom's column, but I could never get the thing to work correctly. Then Barry Traver had it in Genial TRAVELER, the great diskazine (which at \$35 for six FULL issues is still one of the best TI buys around), but I could not get that to work on my Gemini 10X, either.

Ah, well.

Then I talked to Tom at the April Faire in Waltham and bought the updated pack.

In addition to the Quad Column, which I'll discuss in a moment, the package contains the following: Variable Column Lister, Print Sideways, Print Sideways - ASL, Call Load to ASL, ASL to Call Load, Sector Checker, XBasic Checksums, Keyboard Map, XBasic Tokens. That's a pretty hefty selection on that disk.

But now the Quad Column. I wanted to be able to print out in two neat, right-justified columns all of the articles in our newsletter and the items I write for other newsletters (such as this column). But I also wanted to be able to keep my automatic IFFing (see last month's IMPACT-99) and ALL the TransLiteration codes I had developed into a code file. At the same time I wanted to keep the screen TABbed at L/1, I/4, R/38 while I typed. Then, of course, I wanted a very easy way to convert all this wishful thinking into a nice two-column format.

Quad Column does all these things. I created a tiny template (which I SAVED on my FUNNELWEB and on my UTILITY PROGRAMS disks).

This file has the TABs set as above, has >.IF DSK1.C1 on Line 0001; and >.LMO;RM56;FI;AD;IN+5;PL300 (this latter as suggested by Tom in the manual). The C1 file from last month's column just opens up the TL key for underlining, italics, and the like.

Now I'm ready to go. I can see all my text on the screen clearly within the frame of the monitor. I can put all the coding I want into it. I can type up to 170 lines this way to guarantee a full-page text in double columns.

Then I SAVE my file: DSK2.FILE1. Next I LOAD the FORMATTER, as I would to print out the file. Where it says "PID" I type DSK2.FILE2. I now go back to EDITOR and DELETE all those little lf (line feed marks) and SAVE

by SF or PF: DSK2.FILE3 (but FILE2 would also be okay, as you may not have use of it again - however, I play it safe). LOAD Quad Column in DSK1 and merely answer the questions. Be sure your printer is turned on.

I found for the Gemini prints best for 24/216 line spacing and 59 text lines. Everything else I use as a default.

It's one of those programs every newsletter editor dreams of. Though I've used other columnizers, this is the one for me. One can also choose 3 or 4 columns with the same ease.

To get your package, send \$9 (includes shipping) to LA 99ers Computer Group, Marketplace, P.O. Box 3547, Gardena, CA, 90247-7247. Ask for Utilities Disk/Docs.

PRINTIT

Probably the most exciting graphic/text FAIRWARE item to come out is Rodger Merritt's PRINTIT. It is on a par with CS&D and FONTRITER, though it is better as a companion WITH the other two than it is as competition for the other two. In addition to having over 200 graphics that can be viewed, like PRINT SHOP, as a screen slide show (with magnification and speed YOU control!), these graphics can be printed in the middle of your sentences [see below] or anywhere else by using a version of TI Writer. I use FUNNELWEB, for example. This program will let you write in beautiful script through your TIW with graphics through a file called BIG_TYPE. It will also let these graphics be expanded to various sizes (including the full 8-inch size for use with the excellent banner program included). PRINTIT also includes the tightest professional-looking label-printing cataloguer I've ever used and a program to make your own graph paper. At the end of this column are samples of the script type and graph paper and label catalog (as well as two small sizes of a horse and house all done with PRINTIT. Let's face it, with over 200 graphics you have a big choice. You can print a sailboat or Saturn or a snowflake or a spade (and club and heart and diamond) or a spaceship or a spider or the sun. You can even link graphics. There are five separate TRAIN graphics, for example, that can be linked together to make an engine and cars and caboose all across your page. Imagine the kind of desk-top publishing activities you can get into with PRINTIT!

This is a remarkable program that takes two full flippies.

To order this FAIRWARE item send the author \$15 specifying SSSD or DSDD to Rodger Merritt, 1949 Evergreen Ave., Fullerton, CA, 92635 (or call 714-990-4577).

If you have a dot-matrix printer (particularly Gemini-compatible) you may disappear into the confines of your computer for the next few months as you explore PRINTIT. A whole new generation of computer widows may result.

FONTRITER II

I hope this is not vaporware. Peter Hoddie, the

impossible to get ahold of young genius who is responsible for the excellent MYWORD word processor built into the GENEVE, as well as PRESCAN II, XB-BUG, and numerous other pieces of software and textware, has announced the last stages of this program.

Way back in January (1987), Peter said II would be out in a couple weeks. Then Lou Phillips really wanted his GENEVE up and running and out, so Peter's attention was needed elsewhere. He was also starting up a company with Barry Traver and Corson Wyman called Genial Computerware. He was also completing an eeprom for a Horizon update. He was also writing some articles for MICROpendium. He was also setting up the N.E. TI FAIRE. Among other things. (Is it true he is ALSO a full-time student?)

At the April Faire he said II would be "finished on Wednesday."

I've seen lots of ads for it, and there has been lots of speculation. But in a column in LA Topics, Peter said, "I can only say that I plan to start clean up work



on it as soon as I finish this file, so about 2 weeks, assuming I get that gate array from Mitsubishi...". At least Peter has a sense of humor.

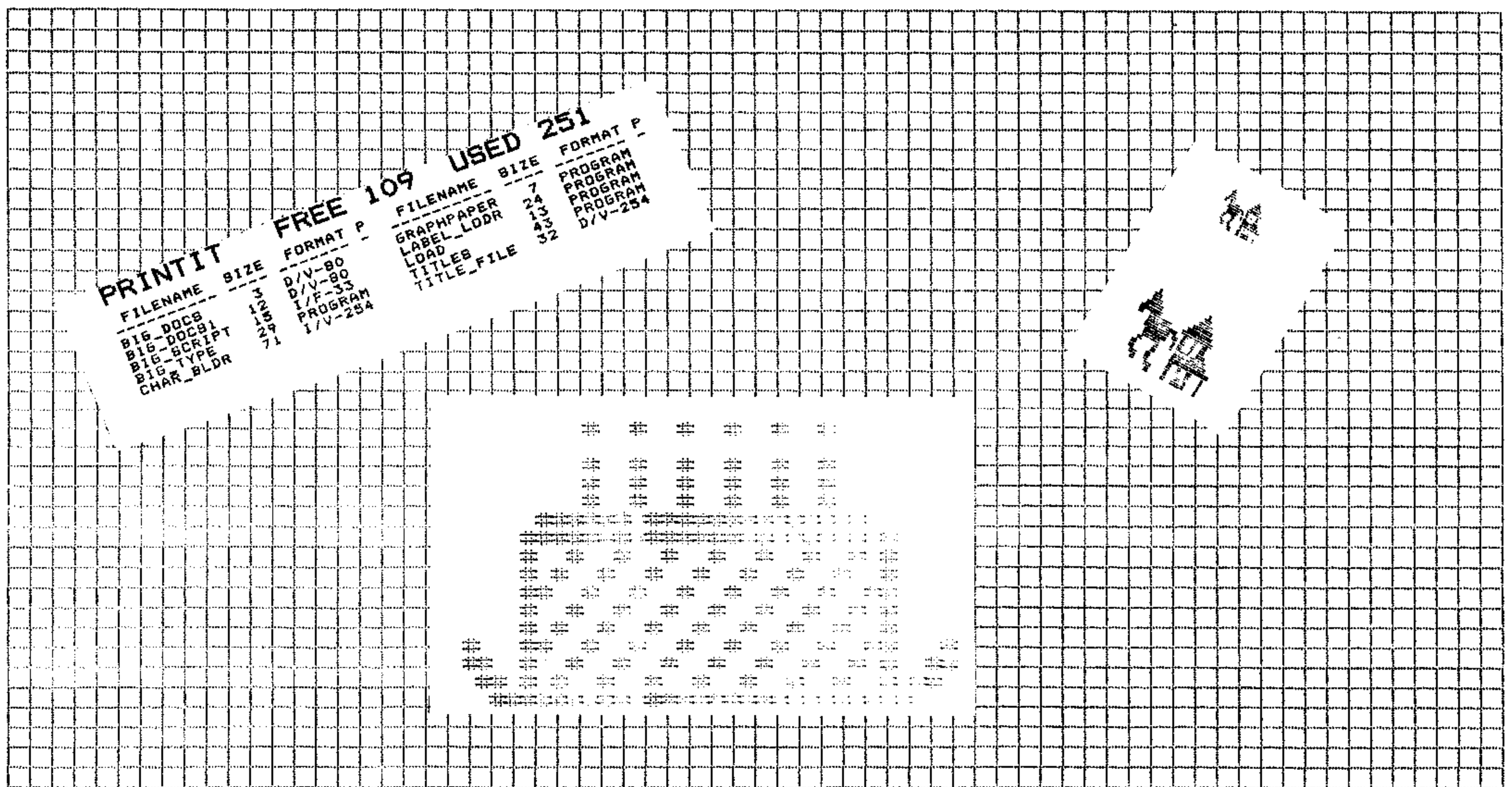
As an owner of FONTHRITER I, I can only assume II will be wonderful as I already is. This is a printer program that will make your head spin. I had to do a little finagling to get everything to work okay on my Gemini, but Peter said some of those text/graphics bugs have been worked out in II. I hope the manual for II is more clearly written and easier to follow. It is the only manual I've ever gotten with an Asgard product that I haven't been perfectly happy with. I eventually put it aside and played with the pull-down menus made so popular by Asgard with programs like Schedule Manager and others.

Rather than discuss I more fully and show examples from it, I think I'll hold off until II arrives (which it may have done by this printing). If you'd like further information contact Asgard Software, P.O. Box 10306, Rockville, MD, 20850, and ask for their catalog.

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*This is a test of the BIS\_TYPE program. This will show the possible variations of printouts using the same text file and only changing the density and format.*

*The TI computer  is a transliteration and part of the Script file. It can only be changed by using CHAR\_BLD. The dog  is a graphic character and the print code will be taken from the disk. To do this it must be put in brackets with the graphic mode turned on.*



# BRUCE'S COMPUTER

## MAGIC

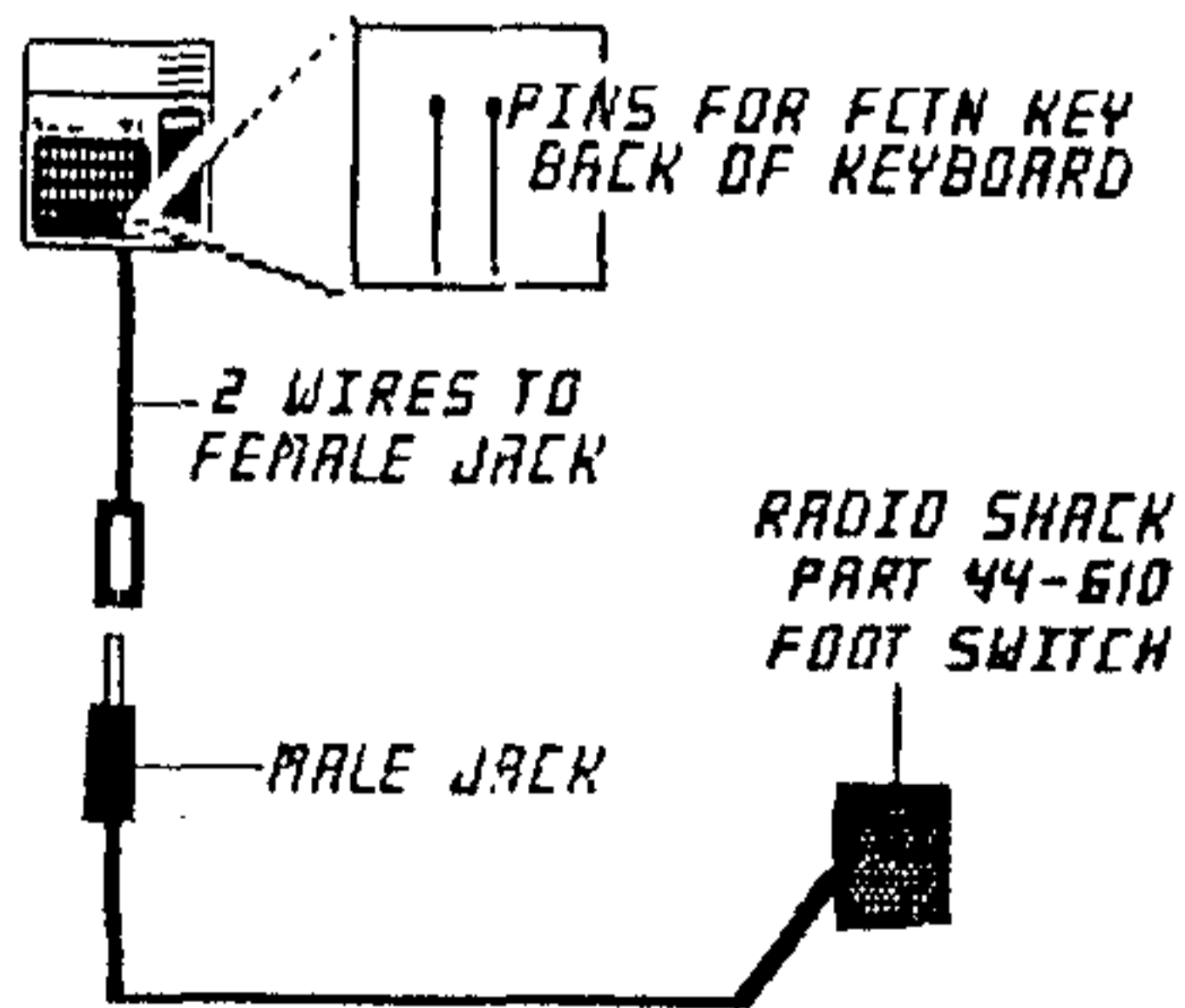
by BRUCE KALVER



Here is a quick do-it-yourself project for all you TI-WRITER users out there. This is how to attach a footswitch to your computer to use instead of your FCTN key. It is very handy while using TI-WRITER so you don't have to do all those awkward positions to make things work. I learned about this while at a TI computer fair. I was standing around a table waiting for a demonstration on how to clean your computer when a member of the club asked me if I had invented any new gadgets for the TI. The guy behind me overheard this and one thing led to another and this guy told me about his footswitch. I jotted down some notes on a candy wrapper and thanked him. Alas I have misplaced my Cadbury Crunchie Bar wrapper so to the mystery man from Massachusetts, I thank you for the idea. The picture is pretty straight forward. The two wires are soldered on the two pins below the FCTN key then out as described in the picture.

Thanks to all the newsletters that have been reprinting my articles. Please remember to give credit to the North Eastern 99ers who publish my articles first.

**FCTN FOOTSWITCH**



# RANDOM BITS

*Ray Langevin*

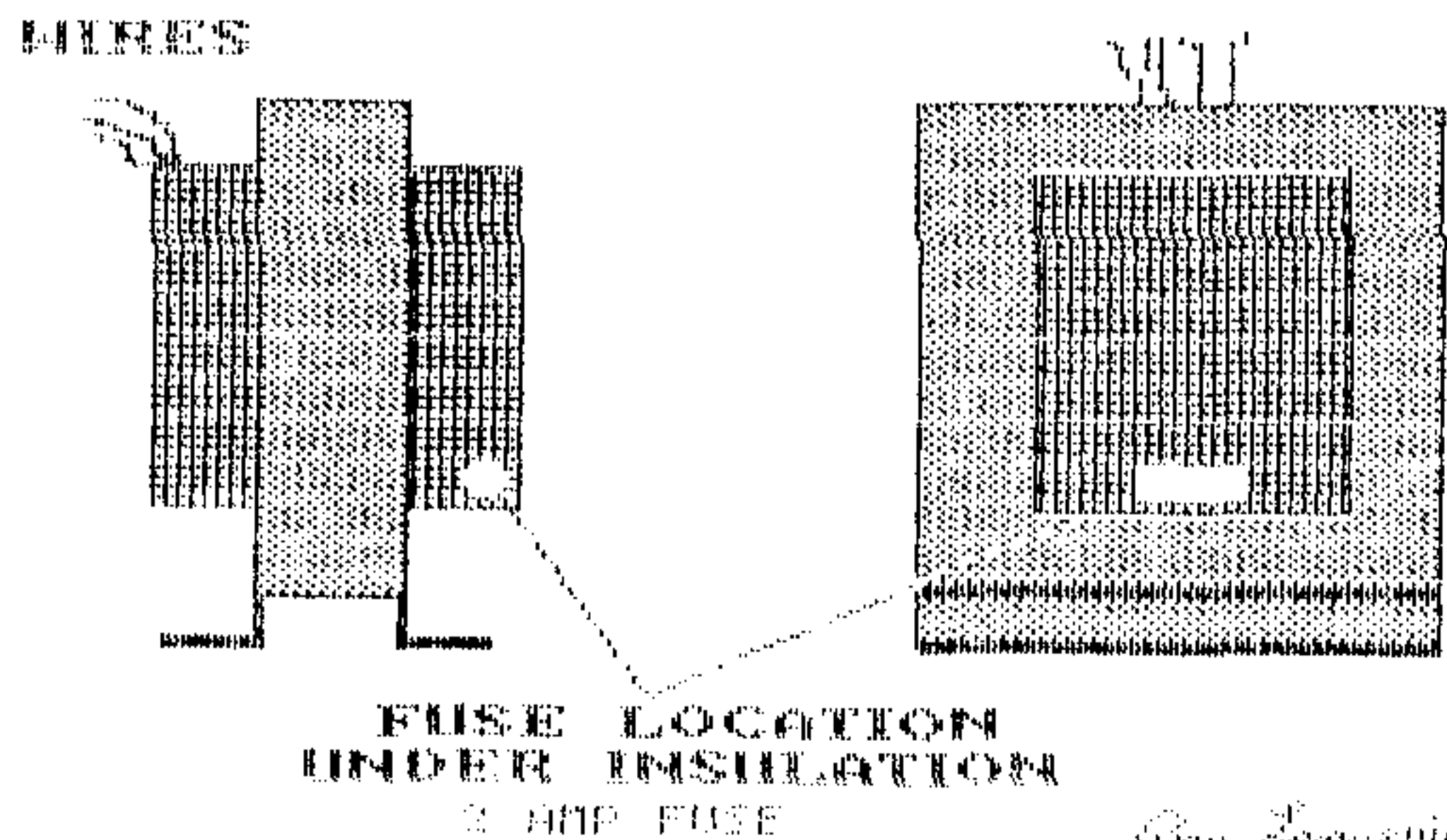
## PE BOX POWER SUPPLY

IF YOU HAVE THE MISFORTUNE OF HAVING YOUR POWER SUPPLY QUIT ON YOU, CHECK THE TRANSFORMER VOLTAGE ON THE PRIMARY AND SECONDARY SIDES. IF YOU HAVE THE PRIMARY VOLTAGE AND NO SECONDARY VOLTAGE, THEN CHECK THE FUSE THAT IS LOCATED INSIDE OF THE TRANSFORMER. THE FUSE IS LOCATED ON THE OPPOSITE SIDE FROM THE WIRE CONNECTIONS, AT THE LOWER PART OF THE TRANSFORMER. YOU WILL HAVE TO CUT AWAY THE INSULATION (PLASTIC HOUSING) FROM THE UNIT TO EXPOSE THE FUSE, WHICH IS AN INLINE TYPE THAT IS SOLDERED TO THE WHITE WIRE OF THE PRIMARY SIDE OF THE TRANSFORMER. NEXT CHECK THE POWER SUPPLY BOARD, THE BOTTOM LEFT HAND SIDE HAS TWO, ONE AMP DIODES, YOU WILL PROBABLY FIND THAT ONE OR BOTH HAVE SHORTED INTERNALLY. CHECK THEM WITH A METER. IF YOU FIND THE VALUES ARE FAULTY, CHANGE THEM. THE PROCEDURE CAN SAVE YOU FROM A COSTLY REPLACEMENT AND EXTENDED DOWN TIME OF YOUR COMPUTER, THE TRANSFORMER AND POWER SUPPLY BOARD COST \$127.50 FROM TEXAS INSTRUMENTS, NOT TO MENTION THE DELAY FOR SHIPMENT.

RAYMOND LANGEVIN  
NORTH EASTERN 99'ers

New New New Meeting Place

**TRANSFORMER PE BOX**



# NEXT MONTH: Theme Issue - The Geneva

## MORE SECRETS HIDDEN IN THE 99/4A

Editor's comment: Almost every month 99'ers are discovering undocumented and hidden features of the 99/4A. Most probably these were meant to provide TI with a means of selling owners additional software (on disk?) and/or firmware (modules). Here via the courtesy of Dave Hultberg of the C.A.U.G. is a discovery from one of the Canadian U.S.'s.

Reprinted from the C.A.U.G ALERT Oct. 1985. Original source listed below:

The following information is from the Victoria (B.C., Canada) 99'er Group's August newsletter.

Over two years ago Johan Vanimschoot had spoken with me about a large high quality widget type device for more than three modules. The concept was a six or eight slot expansion box with line drivers and a buffered selector for each module. This was to remove the Navarone Widget's worst features, limited expansion and noisy switching.

This idea has hung around and a couple of months ago he and I were talking about it, and I mentioned that I had read about supposed software existing in the TI for multiple pages of cartridges. This built in software would supposedly work with the proper extra hardware. Lending credence to this information was a Millers Graphics newsletter (The Smart Programmer) referring to the address decoding required. Johan and I had both had a screen with "REVIEW MODULE LIBRARY" come up from time to time during assembly language development. We talked about the hardware problem and devised a simple scheme to test how the software worked (and if it would work at all).

I loaned Johan a wire wrap and breadboard prototyping system I had built for the cartridge port and with considerable effort Johan managed to locate some 36 pin sockets.

**THE SOFTWARE DOES WORK!** This is what appears to be possible:

The TI menu comes up as it usually does and an extra selection is added "REVIEW MODULE LIBRARY". If this option is chosen the next available cartridge page is displayed on the menu as if it were the only cartridge plugged in and the option "REVIEW MODULE LIBRARY" is also displayed. This action continues in a loop thru all modules until a selection is made of an application.

Now this is nice, no need to flick switches and up to 16 modules could be available in a monster box. But there is more!

The GPL (Graphics Programming Language) system is designed so that with this hardware the built in software allows one cartridge to access the devices and calls in another. This allows for example, console basic to access all of the plugged in modules' call routines and device names at one time. "MINIMEM1", "MINIMEM2", and "SPEECH" and CALL PEEKV, POKEV, LOAD, etc. are all available from basic.

TI FORTH can access "MINIMEM1" and "MINIMEM2" and

"SPEECH" as devices with no need to switch anything or to modify any console hardware. The operating system in the console handles all accesses transparently.

This was built in from day one with the 99/4 and is on my pre 1983 black and silver console. I don't know for a fact if this is on the newer models, but I suspect it is.

The software during the module library selection finds only those pages that contain rom or rom and rom combined. The slots with rom only (third party stuff) do not come up on the menu. Much like the post 1983 consoles.

The Victoria company Osram Industries is currently developing an inexpensive "Super Widget" to take full advantage of this in console software.

Ed. Comment: Assuming the above comes to pass, imagine the POWER this might add to Extended basic. For example with the Mini Memory module plugged into the 'super-widget' you would have an additional 4K for CALL LINKs to Assembly Language routines as well as CALL PEEKV and CALL POKEV. Now add the TE II module and Extended basic would have easy text to speech. Boggles your mind - doesn't it??!! D/V80

Sept. 8 - New Meeting Place

## RAMBLINGS

by

JIM COX

Welcome back old members Ota Jiroutek and Ben Parda. We are happy to have you back in the fold guys.

\*\*\*\*\*

**FREE TO MEMBERS:** We have received some disks with free programs on them in the past two months. The first disk comes from a Users' Group in Delaware and it contains the entire report of the Surgeon General on Aids.

The second disk is from Innovative Programming of California and it has four programs. CHARACTERS a handy xbasic utility which will create a complete upper/lower case with lower case characters having true decenders. DISKDOCTOR this utility patches fractured files on a disk thereby increasing load/save times and wear and tear on drives.

EASYDESIGN allows the design of special characters using the E/A cartridge, much faster than xbasic.

NETWORTH an xbasic program to calculate one's net worth.

Both of these disks will be available for copying at the August meeting.

\*\*\*\*\*



DISK DRIVE SPECIFICATIONS  
 VERSION 1.1, SEPTEMBER 12, 1985  
 by Louis Guion, Startext 77536

| MANUFACTURER | MODEL NUMBER | HIGH | SIDE DENS | TPI | BYTES | 5 V PWR | 12V PWR | ACCES TIME | MOTOR DRIVE | COMMENT       |
|--------------|--------------|------|-----------|-----|-------|---------|---------|------------|-------------|---------------|
| AlpsElectric | FDD2225      | 1/2  |           |     |       |         |         |            |             |               |
| Canon        | MDD211       | 1/2  | DSDD      | 48  | 360K  |         |         |            |             |               |
| C.D.C.       | 9409         | Full | DSDD      | 48  | 360K  |         |         |            |             |               |
| C.D.C.       | 9428         | 1/2  | DSDD      | 48  | 360K  |         |         |            | Direct      |               |
| Epson        | SD521        | 1/2  | DSDD      | 48  | 360K  | .4A     | .4A     | 6MSEC      | Direct      | O.K. in PBox  |
| Hitachi      | HFD505B      | 1/2  |           |     |       |         |         |            |             |               |
| Matsushita   | JA551        | 1/2  |           |     |       |         |         |            |             |               |
| Matsushita   | JA551-2      | 1/2  |           |     |       |         |         |            |             |               |
| Micropolis   | 1115V        | Full | DSQD      |     |       |         |         |            |             |               |
| Mitsubishi   | M4851        | 1/2  | DSDD      | 48  | 360K  |         |         |            |             |               |
| Mitsubishi   | M4853        | 1/2  | DSQD      | 96  | 720K  | .5A     | .7A     |            |             |               |
| MPI          | B51          | Full | SSSD      | 48  | 90K   |         |         |            | Belt        | Sold in PBox  |
| MPI          | B52          | Full | DSDD      |     |       |         |         |            |             |               |
| MPI          | 501C-200     | 1/2  |           |     |       |         |         |            |             |               |
| MPI          | 502B-100     | 1/2  | DSDD      |     |       |         |         |            |             |               |
| National     | JA551-2      | 1/2  | DSDD      | 48  | 360K  |         |         |            |             |               |
| Panasonic    | JA551-2      | 1/2  | DSDD      | 48  | 360K  |         |         | 6MSEC      |             |               |
| Qumetrack    | 142          | 1/2  | DSDD      | 48  | 360K  |         |         |            | Belt        | Hi Pwr Reqmt  |
| Qumetrack    | 142LX        | 1/2  | DSDD      | 48  | 360K  |         |         |            |             |               |
| Qumetrack    | 542          | Full |           | 48  |       |         |         |            |             |               |
| Remex        | RFD480       | 2/3  | DSDD      | 48  | 360K  |         |         |            | Direct      |               |
| Sanyo        | FDA5200B/PC  | 1/2  | DSDD      | 48  | 360K  |         |         |            |             |               |
| Sanyo        | SM548D       | 1/2  | DSDD      | 48  | 360K  |         |         | 6MSEC      | Direct      |               |
| Shugart      | 400L         | Full | SSSD      | 48  | 90K   |         |         |            | Belt        | Sold in PBox  |
| Shugart      | SA455        | 1/2  | DSDD      | 48  | 360K  | .6A     | .6A     | 6MSEC      |             | O.K. in PBox  |
| Shugart      | SA465        | 1/2  | DSQD      | 96  | 720K  |         |         |            |             |               |
| Shugart      | SA475        | 1/2  |           | 96  | 1.6M  |         |         |            |             | For the "AT"  |
| Siemens      | FDD100-5     | Full | SSSD      | 48  | 90K   |         |         |            | Belt        | Sold in PBox  |
| Tandon       | TM50-1       | 1/2  | SSSD      |     |       |         |         |            |             |               |
| Tandon       | TM55-2       | 1/2  | DSDD      | 48  | 360K  |         |         | 6MSEC      |             |               |
| Tandon       | TM55-4       | 1/2  | DSQD      | 96  | 720K  |         |         |            |             |               |
| Tandon       | TM65-2L      | 1/2  |           |     |       |         |         |            |             |               |
| Tandon       | TM100-1      | Full | SSSD      | 48  | 180K  |         |         |            | Belt        |               |
| Tandon       | TM100-2      | Full | DSDD      | 48  | 360K  |         |         |            | Belt        |               |
| Tandon       | TM101-4      |      | DSQD      |     |       |         |         |            |             |               |
| TEAC         | FD55A        | 1/2  | SSSD      |     | 180K  |         |         | 6MSEC      |             |               |
| TEAC         | FD55B        | 1/2  | DSDD      | 48  | 360K  | .4A     | .3A     | 6MSEC      | Direct      | O.K. in PBox  |
| TEAC         | FD55BV-06    | 1/2  | DSDD      | 48  | 360K  |         |         | 6MSEC      | Direct      | No Hd Ld Sol  |
| TEAC         | FD55E        | 1/2  | SSQD      | 96  | 500K  |         |         | 3MSEC      | Direct      |               |
| TEAC         | FD55F        | 1/2  | DSQD      | 96  | 1M    |         |         | 3MSEC      | Direct      |               |
| TEAC         | FD55GFV-AT   | 1/2  | DSQD      | 96  | 1.2M  |         |         |            |             | For the "AT"  |
| TEC          | FB503        | 1/2  | SSSD      | 48  | 90K   |         |         |            | Direct      | 2-OK. IN PBOX |
| Toshiba      | 5401         |      | DSDD      |     |       |         |         |            |             |               |
| Toshiba      | ND04D        | 1/2  |           |     |       |         |         |            |             |               |
| Toshiba      | ND040T       | 1/2  | DSDD      |     |       |         |         |            |             |               |
| Y.E.Data     | YD580        | 1/2  |           |     |       |         |         |            |             |               |

Don't Forget Our New September Place & DATE: Sept. 8TH!

This information is intended to help TI-99/4A users in identifying disk drives that may be compatible with their Peripheral Expansion Boxes and with their present disk systems. Since all information had been garnered from vendor advertisements, it is assumed to be correct, but must, none-the-less be used with caution due to transcription and other typographical errors.

If any reader can in any way add to the information presented, please do so by contacting the author at Startext MC 77536. Your help is appreciated!

In Sept. the Myarc 9640 (Geneve) is Featured

# TINYCAL

The program can probably be modified to operate using any dotmatrix printer that includes super/subscript characters. Although it is designed for RS232 operation, users may use parallel printers simply by changing the I/O characteristics in line 280. It is in line 280 that the super/subscript characters are accessed. This line may be used as the basis for "miniaturizing" printer output for many programs, including disk catalog programs.

The program requires Extended Basic.

Ed's note: If your interested in more programs of this type the name and address of the author is included in the program. You should write to him for his freeware offerings.

Also if you do not have a subscription to MICROpendium you are missing out on a lot of news, views, programs, and information. I've been a subscriber since they first started publishing, and I consider it to be a best buy for 99/4A users.

CONTACT: MICROpendium  
P.O. Box 1343  
Round Rock, Tx 78680

```

100 !*****
110 !*      TINY      *
120 !*EPSON/TI CALENDER*
130 !*      BY      *
140 !*RICHARD J. BAILEY*
150 !*68A CHURCH STREET*
160 !*GONIC, N>H> 03867*
170 !*****
180 DIM T(12),D(12),MO$(12):
: CALL CLEAR :: CALL SCREEN(
2):: FOR I=0 TO 14 :: CALL CL
OLOR(I,16,2):: NEXT I
190 FOR I=1 TO 12 :: READ T(
I),D(I),MO$(I):: NEXT I
200 DATA 7,31,JANUARY,30,28,
FEBRUARY,8,31,MARCH,32,30,AP
RIL,9,31,MAY,32,30,JUNE
210 DATA 9,31,JULY,31,31,AUG
UST,6,30,SEPTEMBER,30,31,OCT
OBER,7,30,NOVEMBER,30,31,DEC
EMBER
220 DISPLAY AT(5,14):"TINY":
" EPSON/T.I. CALENDAR":
"::"::"***THIS PROGRAM WILL P
RINT A::" CALENDAR FOR ANY
YEAR FROM::" 1776 TO 2099."
230 DISPLAY AT(13,1):"***SET
TOP OF FORM AND ENTER::" TH
E YEAR AS A FOUR DIGIT::" N
UMBER (ex. 1985) OR::"
JUST ENTER TO EXIT PROGRAM"
240 DISPLAY AT(19,1)BEEP:"**
ENTER CALENDAR YEAR" :: ACCE
PT AT(19,24)SIZE(4)VALIDATE(
DIGIT):Y$
250 IF Y$="" THEN CALL CLEAR
:: END ELSE Y=VAL(Y$):: IF
Y<1776 OR Y>2099 THEN 240

```



From A9CUG  
CALL  
Newsletter

Sept. 8 - Next Meeting  
Sunderland Rd.  
Community Ho use  
New Location

```

260 IF INT(Y/4)*4=Y AND NOT(
INT(Y/100)*100=Y AND INT(Y/4
00)*400<Y) THEN D(2)=29
270 DI=Y-1906+INT((Y-1901)/4
):: D(0)=DI+1-(INT(DI/7)*7)
280 M2=0 :: OPEN #1:"PIO" ::
PRINT #1:CHR$(27);"S";CHR$(
1);CHR$(15);CHR$(27);"3";CHR
$(14):TAB(19);Y
290 FOR I=1 TO 12 STEP 2 ::
PRINT #1:TAB(T(I));MO$(I);TA
B(T(I+1));MO$(I+1)
300 J,K=1 :: A,M1=D(I-1)+M2
:: B,M2=M1+D(I)
310 PRINT #1:CHR$(27);"3";CH
R$(8);"S M T W T F S"
S M T W T F S":CHR$(
27);"3";CHR$(14);"- - - -
- - -"
320 IF J>D(I) THEN 330 :: IF
A>7 THEN A=A-7 :: GOTO 320 E
LSE PRINT #1:TAB(A*3-2);STR$(
J):: IF A=7 THEN 330 ELSE
A=A+1 :: J=J+1 :: GOTO 320
330 IF K>D(I+1) THEN 340 :: I
F B>7 THEN B=B-7 :: GOTO 330
ELSE PRINT #1:TAB(21+B*3);S
TR$(K):: IF B=7 THEN 340 EL
SE B=B+1 :: K=K+1 :: GOTO 33
0
340 IF J>D(I) AND K>D(I+1) THE
N 350 ELSE PRINT #1:"" :: A=
A+1 :: B=B+1 :: J=J+1 :: K=K
+1 :: GOTO 320
350 PRINT #1:"" :: NEXT I ::
PRINT #1:"":CHR$(27);"@" ::
CLOSE #1 :: RESTORE :: GOTO
190

```



# BANNER

```

100 DIM A(471),BIN(6)
110 CALL CLEAR
120 PRINT "GETTING READY. PL
EASE WAIT."
130 FOR I=0 TO 464 STEP 8
140 FOR J=0 TO 7
150 IF (J<>0)*(J<>7) THEN 180
160 A(I+J)=0
170 GOTO 190
180 READ A(I+J)
190 NEXT J
200 NEXT I
210 A(80)=8
220 A(87)=8
230 A(367)=63
240 A(447)=63
250 FOR I=0 TO 6
260 BIN(I)=2*I
270 NEXT I
280 CALL CLEAR
290 PRINT TAB(11);"*BANNER*"
300 PRINT
310 PRINT "HOW MANY LETTERS
CAN YOUR"
320 INPUT "PRINTER PRINT ON
A LINE?":CL
330 IF (CL)=7)*(CL<=136) THEN
380
340 PRINT
350 PRINT "I DON'T THINK THA
T'S RIGHT."
360 PRINT "PLEASE CHECK YOUR
MANUAL."
370 GOTO 310
380 CALL CLEAR
390 PRINT "HOW TALL DO YOU W
ANT THE"
400 PRINT "LETTERS IN YOUR B
ANNER"
410 PRINT
420 PRINT "(1=SHORTEST; ;ST
R$(INT(CL/7));"=TALLEST)";
430 INPUT CC
440 IF (CC)=1)*(CC<=INT(CL/7
)) THEN 470
450 PRINT
460 GOTO 420
470 CALL CLEAR
480 PRINT "WHAT CHARACTER SH
ALL I USE"
490 PRINT "TO COMPOSE THE LE
TTERS OF"
500 PRINT "YOUR BANNER"
510 PRINT
520 INPUT "(E.G., *, $, #)?"
:CH$
530 IF CH$="" THEN 470
540 CH$=SEG$(CH$,1,1)
550 CALL CLEAR
560 PRINT "PLEASE ENTER THE
MESSAGE YOU";
570 PRINT "WANT PRINTED ON Y
OUR BANNER.";
580 PRINT "DO NOT USE LOWERC
ASE"
590 PRINT "LETTERS OR COMMAS
."
600 PRINT
610 INPUT MESSAGE$
620 PRINT
630 PRINT "WHEN YOUR PRINTER
IS READY,"
640 PRINT "PLEASE PRESS ANY
KEY." (continued) ->

```

# PROGRAMMERS PAGES

MEMORY PEEKER - from A9CUG  
 BY ED YORK CALL Newsletter  
 FROM THE CINDAY USERS GROUP

The program listed below was specifically written to allow the user to peek into each memory location, return the particular ASCII value stored at each location and display each ASCII value if that value can be displayed. Note: This program may divulge some rather strange and yet fascinating information! Note: This program requires both Extended Basic and Memory Expansion!

```
>100 !MEMORY PEEKER
>110 !WRITTEN BY:
>120 !ED YORK
>130 CALL CLEAR :: CALL INIT
      :: A=-32767 :: DISPLAY AT(1,
      6):"MEMORY ASCII CHR"
>140 FOR B=3 TO 22 :: CALL PE
      EK(A,C):: DISPLAY AT(B,6):A;
      "=" ::DISPLAY AT(B,15) SIZE(
      -3):USING "###":C :: GOSUB 1
      70
>150 DISPLAY AT(B,19):"=" ::
      DISPLAY AT(B,21):USING "###"
      :CHR$(C):: A=A+1 :: NEXT B
>160 DISPLAY AT(24,2):"PRESS
      ANY KEY TO CONTINUE." :: CAL
      L KEY(O,C,D):: IF D=0 THEN 1
      60 ELSE 140
>170 IF C<100 AND C>10 THEN D
      ISPLAY AT(B,15)SIZE(-1):"0"
      :: RETURN
>180 IF C<10 THEN DISPLAY AT
      (B,15)SIZE(-2):"00" :: RETUR
      N
>190 RETURN
```

XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX

## SPRITE-FEVER

BY BOB GAGLE

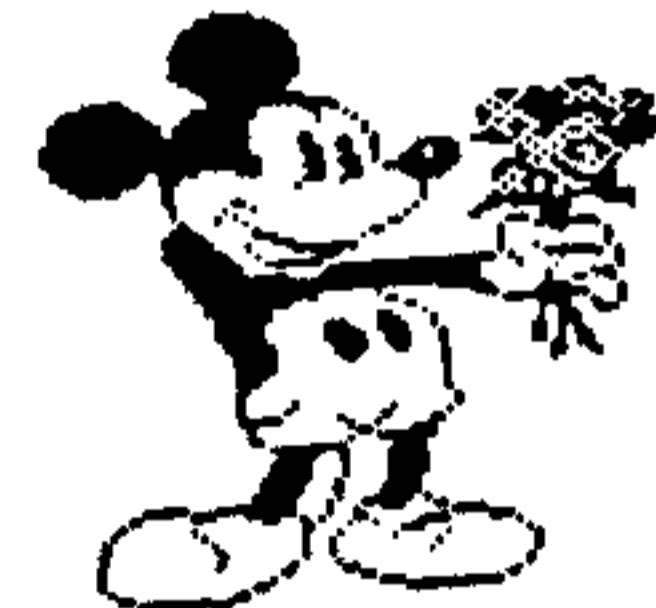
Here is a short program to give the simulated sine wave action to a sprite. Try it and see if you can improve upon it!

```
>100 REM SINE-WAVE SPRITE
>110 REM Written by:
>120 BOB GAGLE
>130 REM CIN-DAY USER GROUP
>140 CALL CLEAR
>150 CALL MAGNIFY(2)
>160 DIM A(30)
>170 FOR B=1 TO 30
>180 READ A(B)
>190 NEXT B
>200 DATA 0,-4,-8,-12,-16,-20
      ,-24,-28,-24,-20,-16,-12,-8,
      -4,0,0,4,8,12,16,20,24,28,24
      ,20,16,12,8,4,0
>210 CALL SPRITE(#1,42,5,89,1
      20)
>220 CALL JOYST(1,C,D)
>230 CALL KEY(1,F,G)
>240 IF F=18 THEN 250 ELSE 22
      0
>250 CALL POSITION(#1,H,I)
>260 FOR J=1 TO 30
>270 IF I>239 THEN I=1
>280 CALL LOCATE(#1,H+A(J),I+
      J)
>290 NEXT J
>300 GOTO 220
```

# BANNER continued

Cont from pg 5

```
650 CALL KEY(J,K,S)
660 IF S=0 THEN 650
670 REM --USE S80 OPEN #1:"R
      S232" FOR SERIAL PRINTER--
680 OPEN #1:"PID"
690 FOR I=1 TO LEN(MESSAGE)
700 PNTR=(ASC(SEG$(MESSAGE,
      I,1))-32)*8
710 IF (PNTR)=0)*(PNTR<=464)
      THEN 730
720 PNTR=0
730 FOR J=PNTR TO PNTR+7
740 LN$=""
750 V=A(J)
760 FOR K=6 TO 0 STEP -1
770 IF V<BIN(K)THEN 810
780 V=V-BIN(K)
790 C$=CH$
800 GOTO 820
810 C$=""
820 FOR L=1 TO CC
830 LN$=C$&LN$
840 NEXT L
850 NEXT K
860 FOR K=1 TO (CC+1)/2
870 PRINT #1:LN$
880 NEXT K
890 NEXT J
900 NEXT I
910 CLOSE #1
920 CALL CLEAR
930 PRINT "YOUR BANNER IS FI
      NISHED."
940 PRINT
950 PRINT "PRESS (P) TO PRIN
      T ANOTHER"
960 PRINT "BANNER OR (E) TO
      END."
970 CALL KEY(J,K,S)
980 IF K=ASC("P")THEN 380
990 IF K<>ASC("E")THEN 970
1000 END
1010 DATA 0,0,0,0,0,0,0,0,61
      61,0,0
1020 DATA 0,56,0,0,56,0,18,6
      3,18,18,63,18
1030 DATA 18,58,107,107,46,3
      6,51,54,12,24,51,35
1040 DATA 6,47,121,93,118,39
      0,0,52,56,0,0
1050 DATA 0,0,30,63,51,33,33
      51,63,30,0,0
1060 DATA 42,62,28,28,62,42,
      8,8,62,62,8,8
1070 DATA 0,0,13,14,0,0,8,8,
      8,8,8,8
1080 DATA 0,0,3,3,0,0,3,6,12
      24,48,32
1090 DATA 30,63,37,41,63,30,
      1,17,63,63,1,1
1100 DATA 17,51,39,45,57,17,
      34,35,41,61,55,34
1110 DATA 6,14,26,63,63,2,58
      59,41,41,47,38
1120 DATA 30,63,41,41,47,6,3
      2,35,39,44,56,48
1130 DATA 22,63,41,41,63,22,
      16,57,41,43,62,28
1140 DATA 0,0,54,54,0,0,0,0,
      109,110,0,0
1150 DATA 0,8,28,54,99,65,18
      18,18,18,18,18
1160 DATA 65,99,54,28,9,0,16
      48,37,45,56,16
1170 DATA 30,63,33,45,61,29,
      15,31,50,50,31,15
1180 DATA 63,63,41,41,63,22,
      30,63,33,33,51,18
1190 DATA 63,63,33,51,30,12,
      63,63,41,41,41,33
1200 DATA 63,63,40,40,40,32,
      30,63,33,37,39,39
1210 DATA 63,63,8,8,63,63,33
      33,63,63,33,33
1220 DATA 2,3,1,1,63,62,63,6
      3,12,30,51,33
1230 DATA 63,63,1,1,1,1,63,6
      3,24,12,24,63
1240 DATA 63,63,28,14,63,63,
      30,63,33,33,63,30
1250 DATA 63,63,36,36,60,24,
      30,63,33,34,63,29
1260 DATA 63,63,36,38,63,25,
      16,57,41,41,47,6
1270 DATA 32,32,63,63,32,32,
      63,63,1,1,63,63
1280 DATA 60,62,3,5,62,60,63
      63,6,12,6,63
1290 DATA 51,63,12,12,63,51,
      48,56,15,15,56,48
1300 DATA 35,39,45,57,49,33
```



Sunderland Road Community House (Route 20)  
 14505  
 1018  
 COWG 1  
 cont p 1

AUGUST 1987

\*\*\*\*\*  
MUNCH OFFICERS AND NUMBERS (all in 617 area)  
\*\*\*\*\*

|                  |                  |          |
|------------------|------------------|----------|
| President        | W.C. Wyman       | 839-4134 |
| Vice President   | Hector Beaudreau |          |
| Secretary        | Al Cecchini      |          |
| Treasurer        | Jim Cox          | 869-2704 |
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| Club Reviewer    | Count Dracula    |          |
| Library          | Al Lisa Cecchini |          |
| Software Library | Don Mason        | 754-6630 |
|                  | Hector Beaudreau |          |
| Mail + Messages  | Ma. Corson Wyman |          |
| Mendacity Chair  | Richard M. Nixon |          |

\*\*\*\*\*

### LIBRARY NOTICE

PLEASE RETURN ANY ITEMS BORROWED FROM OUR LIBRARY. We are still missing a considerable number of books, tapes, disks, and so on belonging to YOUR CLUB. Do a little clearing around your computer area (or any places you'd be apt to set things aside). If you locate any library materials (or if you'd like to donate any you no longer use) please come with them to the next meeting. We don't care how long you've had them out. There is no fine. But it would be fine if other members could have a chance to borrow these things.

\*\*\*\*\*

### ADVERTISING RATES:

|                                          |                       |
|------------------------------------------|-----------------------|
| Double Page (10.5" by 8")                | \$25.00 per insertion |
| Full Page (5" by 8")                     | \$13.00 per insertion |
| Half Page (5" by 4")                     | \$ 7.00 per insertion |
| Quarter Page (5" by 2" or<br>2.5" by 4") | \$ 5.00 per insertion |

Classified (non-commercial) ads are FREE for MUNCH members.

\*\*\*\*\*

### ....RAFFLE....

In July we raffled off three different items: a new PARSEC cartridge, a box of 12 cassettes donated by Don Mason of Bailey's, and XB-BUB, the Extended BASIC programmer's dream, donated by Corson Wyman of Genial Computerware. This month there are lots more donations. Remember: **YOU MUST BE PRESENT TO WIN**

\*\*\*\*\*

### AUGUST SALE

Your big chance to sell any used consoles, P/Boxes, cards, tape recorders, interface cables, ANYTHING related to your computer system. Also bring any original tapes, cartridges, disks, texts, or other soft/textware. Be prepared to buy a lot and sell a lot. Please come with prices marked on the items. Call Jack Sughrue to let him know what you will be selling.

\*\*\*\*\*

### NEWSLETTER

Become Immortal! We are looking for articles, cartoons, love letters, programs, lists, bubble-gum wrappers; in short, anything from the members which can be printed in our newsletter. Text items preferred on 8860 disk through TIM. Printed items also accepted. Share your interest or expertise with other members. Mail all items by the 3rd Tuesday of each month to Jack Sughrue, Box 459, E. Douglas MA 01516. Disks will be returned at the next meeting.

\*\*\*\*\*

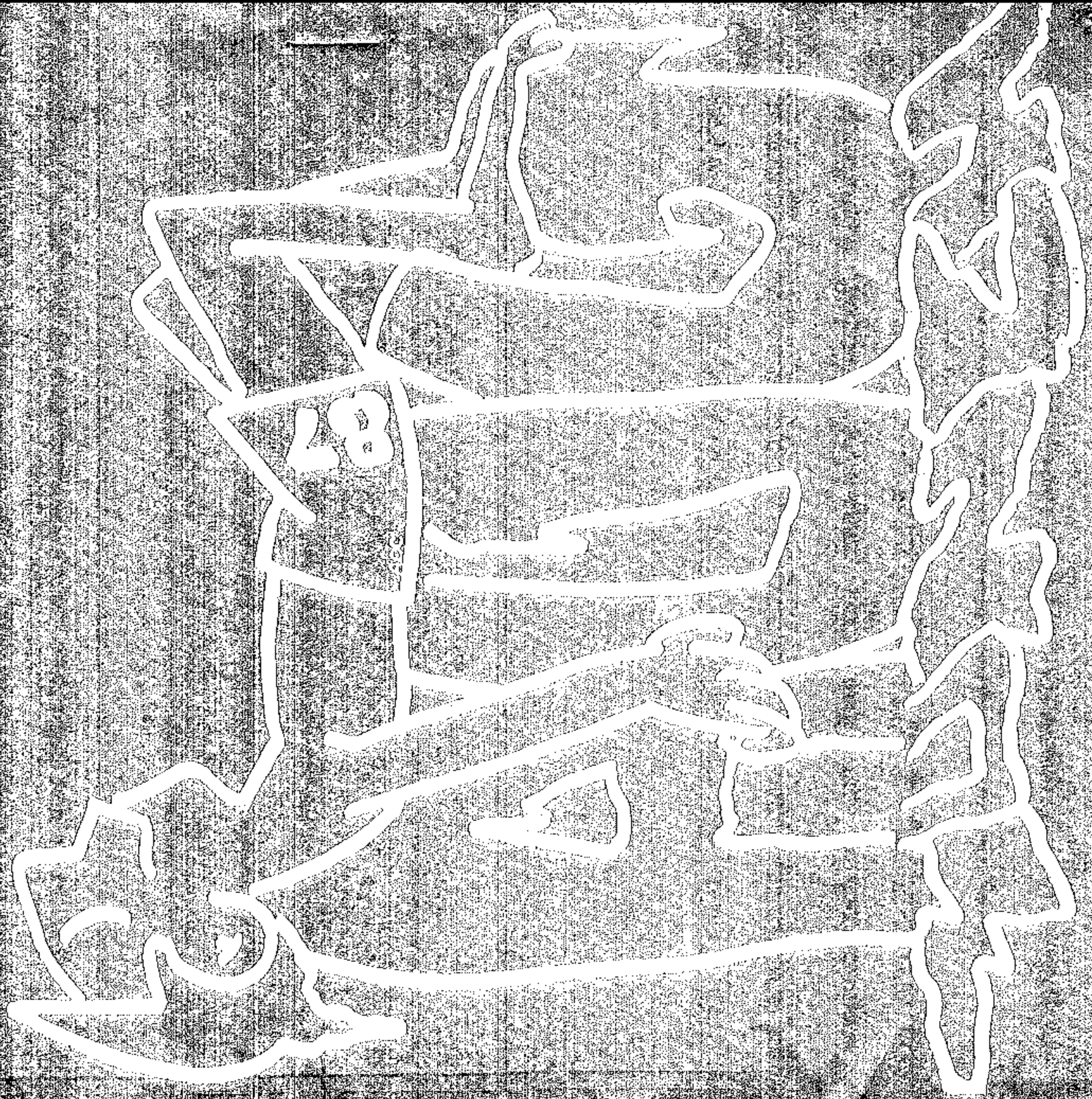
### NEWSALS + RENEWALS

NEWSALS are \$15/year plus a one-time \$10 initiation fee (which includes a choice of ANY club disk free); RENEWALS are \$15/year. Members have full use of disk/text libraries, free workshops + assistance, 12 full issues of M.U.N.C.H., voting privileges + more! Subscription alone is \$10/year. Mail check to address on cover.

\*\*\*\*\*

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31  
 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

Mass Users of the Ninety-nine and Computer Hobbyist  
 AUGUST 1987 Monthly Newsletter Volume 6.8



M.U.N.C.H.  
 P.O. Box 7193  
 560 LINCOLN STREET  
 WORCESTER, MA. 01605

FIRST CLASS

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 IMPORTANT NOTICE  
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 AUGUST meeting will be on AUGUST 18th, 1987 YARD A SPA 1016,  
 AS WE BID FOND FAREWELL TO OUR MASS MED CLUBHOUSE  
 at University of Massachusetts Medical Center  
 (Come to the VISITORS entrance and follow the signs for MUNCH, etc.)  
 On September 8th we'll be at our NEW place & time! 2nd Tuesday  
 at SUNDERLAND ROAD COMMUNITY CENTER, Route 20 (see map inside)