



KANKAKEE TI USERS' GROUP
 c/o MARK HARMS
 PO BOX 1945
 KANKAKEE, IL. 60901



USA 22

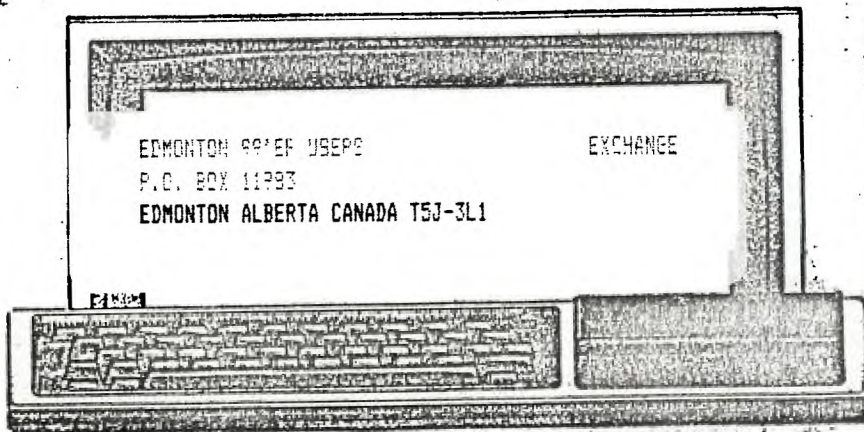
Please See New Address

MARK YOUR
 CALENDAR!

JULY							AUGUST							
S	M	T	W	T	F	S	S	M	T	W	T	F	S	
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BOURBONNAIS
 MUNICIPAL
 CENTER

1 pm til 4 pm



SEE YOU THERE

K-3 T.I. USERS' GROUP NEWSLETTER

EDITOR'S PAGE

By Beverly Cook - Editor
July/August 1986

Our June meeting was a good example of a summer user's group meeting. The elections were held and everyone was re-elected. Jeramie Messenbring was the only new member to be elected, bringing our board back to 7 members. Jeramie is a great guy and a super Adventurer! He has solved several Infocom games including Zork I, Zork II, and Enchanter. His latest trial is with Sorcerer. We hope to get Jeramie to contribute some hints to this newsletter for the rest of us who enjoy Infocom adventures but keep getting killed or eaten by grues! Welcome Jeramie!

This will probably be the last newsletter I will personally do, although I will be "helping" the new Editor. I hope the newsletter has been interesting to you. I have had fun putting them together, and I might have learned a thing or two in doing so. A new Editor will be chosen at our board meeting to be held July 6.

As I hinted before, the June meeting was not well attended. Summer vacations really take their toll, and apparently, most people were too busy to attend. I can't say that I was surprised. Hopefully, when school starts and the weather turns colder, our attendance will improve.

I hope to see all of you in July!

Bev

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*****
|
| Chairman          Mark Harms      |
| Vice-Chairman    Bruce Shearer  |
| Secretary        George Lempeotis |
| Treasurer        Glen Flowers    |
| Librarian        Richard De Roos  |
| Newsletter Ed.   Beverly Cook    |
|                  Jeramie Messenbring |
|
|
*****

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IT WORKS!!

By Arthur Prescott-West Penn 99er's

On wednesday night, June 18, the Boston Computer Society held its monthly meeting. One of the guest speakers was Paul Charlton with the new MYARC computer. This computer has two names: Geneve and the 9640.

As promised it is a card that fits into the P-box with an IBM-type keyboard connected to it. There are a few plugs on the back of the card including one for composite video, RGB video, a mouse and a light pen, a joystick and the keyboard. The joystick port is presently the TI type but might be changed to the Atari standard.

The Geneve comes with the standard 512K of memory and 128K of video ram. It's memory can be currently expanded to 1.5 megabytes and the video ram can be upgraded to 192K. These changes can be easily done by the owner.

It is compatible with just about everything that you own now. All of the cards in your P-Box will work except your 32K and, if you own one, a Triple Tech card. This is because Corcomp didn't follow the TI standard when it was designed. Contrary to earlier reports the P-Code card will work.

Most of your programs will work as long as it doesn't have thier own built in keyscan routine. Some of these are: Fast-Term, 4A Talk, Funnel Writer, and a few more. Most will be modified to run on the new machine though.

"What about my cartridges?", you say. Well, they will have to be transferred to disk. Paul said MYARC will provide a program for you to do this but it might not come with the Geneve. This means you might have to cough up a few more bucks for the honor of using your cartridges.

But don't get to upset yet, you might not even need them. Paul has been modifying some of these programs to work in the Geneve environment. One that was demoed at the BCS meeting was TI-Writer. Not what you were used to, this one has 80 columns and was extremely fast. Multi-Plan is next on his list for modification.

The graphics are amazing! He ran a graphics demo program that did the standard scrolling lines bit. He also ran one that draws blocks and fills them in. The speed was indescribable. You'll have to see it for yourself. Paul said the graphics speed is faster than the Amiga and a bit slower than the Atari 520ST. The processing speed is 3 times faster though.

FORTH runs between 18 and 20 times faster than on the 4A. That will be very interesting to see and work with.

Now your two obvious questions: When and How much? MYARC is shooting for early August and suggested list is 499.95. This means September and about 400.00 in my opinion.

This computer is definitely worth waiting for. All the bad vibes I got from it at the computer fair in April have been cured and MYARC has a future customer in me.

WHATS NEW FOR TI

by Mark Haras

Good grief! Where does one start! So many new things have sprouted up in the last few months that it's hard to sort it all out.

First things first, unless you live in a hole in the ground or you don't have access to a Micropendium mag., then you may not know what is going on in the TI world.

Neat thing number 1:

How does 256K for 169.95 sound! Yep, that's right, Corcomp has released a new P-Box card that gives us 256K with neat features like:

- 1) Multi-disk RAM disk capability
- 2) External power supply- will net loose memory when shut down
- 3) New software that will utilize the memory like a DB Manager, Word processor and a speed sheet.

It can be had in either stand alone (249.96-256K and 269.95 for 512) and the box version for 169.96 for box and 269.95 for the 512.

They are both compatible with the Micro-expansion from CC and are available from TEX-COMP.

Though I don't have one (yet) as soon as I get one I will have a complete review.

Neat thing number 2:

Coming soon from Millers Graphics (late fall) is the GPL disassembler and Assembler. With the past record of quality stuff from these people, I can hardly wait for it. You could actually rewrite the entire console load it into the Gram Kracker and have a new computer with all the enhancement that you could imagine.

Neat thing number 3:

Here it comes folks, the new computer is on the way. Yep, if you got the money, they got the card. In the P-BOX goes the new card that will give the new computer. I have actually seen this one work! Built in to it is 640K and it will access the 512 card from Myarc giving you over a meg of memory. Fast? Well, Amiga, eat your heart out, this thing is incredible! New software is being developed for it right now and from what I see it will be great. Only one little kicker is the price. Please be seated for this one, it will come with the IBM style keyboard, software and the like and all for only *499.95*!

You still there? This is the suggested price, I figure it will drop by the time it hits the street. It still is a bit steep for me and I may hold back on this for a while.

Neat thing number 4:

Comes in the line of software. It is called Disk Copy 99. Yes I know (ho hum) but this one claims to copy a disk in 2 passes (ss/sd). It will run in XB, E/A, Mini-memory. It's also supposed to be compatible with the Myarc and CC cards.

For 20.00 bucks it just might be worth it. Get one from Mike Dodd 116 Richards Dr. Oliver Springs TN 37840

Neat thing number 5:

Lastly comes another piece of software that sounds fantastic. It is Super Bug V 2.0 by Edgar Dohmann. It has all the features of the V1.0 with all the bugs removed. New features are too much to put in this column but from what I've read it's a must for the serious M/L programmer. Only 10 bucks, what a deal! Get one from Edgar Dohmann Rt 5 Box 84 Alvin TX 77511.

I think that this will be all for now. Just goes to show that this machine is far from dead and with all the support from people like this it will have a long and useful life.

CRYPTO-TERMS

IUTYURK SUJARK SUTOZUX SKSUXE

JOYQ IGYKZZK VXOTZKX IGXZXOJMK SUJKS

TIPS

If you read my article about cleaning the contacts on my CorCoop controller, you know about my problem. To add a bit to this, it appears that my problem was not in the card. It didn't hurt a thing to clean the contacts, even though the problem resurfaced two days later. After several hours of fussing and cursing, I replaced my CorCoop card with my old TI controller card. Guess what! It didn't help! Thankfully, the problem did not lie in the controller. I finally narrowed it down to either a bad connection between my PE box cable and speech synthesizer or a bad console. I switched to my spare console and left the synthesizer off. I haven't had the problem since. Moral: Sometimes, you have to look farther than your nose when problems surface!

WHAT TO DO WHEN YOUR CONTROLLER CARD FAILS
or How Not To Have a Nervous Breakdown
By Beverly Cook

I recently had an experience that left me extremely upset (to say the least).

After enduring a very hot and humid couple of days here in Kankakee, Illinois, I decided to do some hacking during the relatively cool early morning hours between the time my husband left for work and the kids woke up. After powering up and doing a bit of work on the newsletter, my system started saying that I didn't have any disk drives! I have a CorComp disk controller, and I had visions of waiting weeks(?) for it's return if I had to send it in for repair. After a few tries, I could get something saved to a disk (or so I thought). To make a long story short, I ended up loosing all the data on 3 disks because things weren't working quite right. Luckily, the cavalry arrived and things got better.

I live along a very dusty street in a small subdivision East of Kankakee. Even though I try to keep things as dust free as possible, everything gets some dust on or in it. The other problem is that I am a smoker and, yes, I smoke when I am hacking (another no-no). I was all ready to pull the controller and throw it through the window, when we decided to try cleaning the contacts and replacing the card in the P.E. box. We took the card apart, made sure all the connections were good and cleaned the contacts with an ordinary pencil eraser. Lo and behold, it worked! I was sure the card was bad, but luckily, I found out otherwise before I packed it up and sent it off.

The moral of this story is, if you are having trouble, it won't hurt to check out the contacts on your controller card (CorComp or TI), and see if it helps. Also, try putting the card in another slot (it doesn't have to be in slot #8). Mine now resides in slot #6 and is working fine. Of course, if this doesn't help, there probably is something more wrong than just a bad connection and you should have it professionally looked at.

TIPS

This tip is from Jim Peterson of the TIGERCUB. If you have a workdisk that you are always adding and deleting files on, you could be asking for trouble. If you delete several short files, and then add a long one, the file could be broken up onto several sectors. This could result in lost data. Jim recommends that you copy your disk, file by file, onto a new disk periodically to prevent any problems.

```

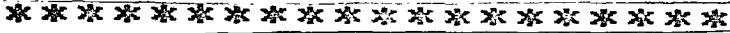
100 !!!!!!!!!!!!!!!!!!!!!!!
110 !
120 !# DON'T LABELS #
130 !# BY: Ron Rutledge #
140 !# Central Iowa UG #
150 !# #
160 !!!!!!!!!!!!!!!!!!!!!!!
170 !
175 !ESCAPE CODE
180 ESC%=CHR$(27)
185 !EMPHASIZED PRINT
190 EMP%=ESC%&"E"
195 !NORMAL PRINT
200 NOR%=ESC%&"W"&CHR$(0)
205 !ENLARGED PRINT
210 ENL%=ESC%&"H"&CHR$(1)
215 !TURN UNDERLINE ON
220 UON%=ESC%&"- "&CHR$(1)

```

```

225 !TURN UNDERLINE OFF
230 UOFF%=ESC%&"="&CHR$(0)
240 OPEN #1:"PI0"
250 PRINT #1:EMP%&ENL%&UON%&
!DO NOT SEND
260 PRINT #1:NOR%&" FLOPPY D
18% ENCLOSED"
270 PRINT #1:ENL%&UOFF%&"DO N
OT XRAY"
280 PRINT #1: : :
285 !ARE YOU PRESSING A KEY?
290 CALL KEY(0,R,S)
295 !IF NOT THEN PRESS ANOTH
ER
300 IF S=0 THEN 250
310 CLOSE #1
320 END

```



MEMBERSHIP RENEWALS

The Following people are due to renew their membership. Renewals are \$7.50 per year. You can renew at our general meeting or send a check to our P.O. box. Please make checks payable to Beverly Cook. If your renewal date is June, this is the last newsletter you will receive. Thanks!

- | | |
|------------------|------|
| Marilyn Brushard | 6-86 |
| Jeannine Allen | 6-86 |
| Al Johnson | 6-86 |
| Richard De Roos | 7-86 |
| Harlyn Schaidt | 7-86 |

The opinions expressed in this newsletter are those of the authors and not necessarily those of the Kankakee TI User's Group. Permission is given to reprint any article provided that credit is given to the author.

RUN BASIC IN EXTENDED

```

1 CALL VDPUTIL2
100 !IF YOU CAN NOT RUN A BA
SIC PROGRAM IN X-BASIC BECAU
SE OF CALL COLOR OR CALL CH
AR STATEMENTS ABOVE THE LIM
ITS
110 !OF X-BASIC, THIS PROGRA
M WILL ALLOW YOU TO DO SO.
    ENTER THIS PROGRAM AND S
AVE IT AS A MERGE FILE
120 !(SAVE DSK1.VDPUTIL, MERG
E). DELETE LINES 100,110,12
0 WHEN TYPING IN THIS PRO
GRAM.
32700 !"VDP UTILITY II"
32701 !BY JOHN BEHNKE
32702 ! 5755 W. GRACE
32703 ! CHICAGO IL 60634
32704 !WILL CONVERT ANY BASI
C
32705 !PROGRAM TO X-BASIC
32706 !DIRECTIONS: LOAD BASI
C
32707 !PROGRAM INTO X-BASIC.
32708 !THEN INPUT:
32709 !"MERGE DSK1.VDPUTIL2"
32710 !WHEN FINISHED, RE-SAV
E
32711 !GAME. THE RESULTING
32712 !PROGRAM WILL RUN IN
32713 !X-BASIC.
32714 SUB VDPUTIL2
32715 CALL CLEAR :: CALL INI
T :: CALL LOAD(8196,63,232)
32716 CALL LOAD(11550,80,79,
75,69,82,32,38,12,80,79,75,6
9,86,32,37,164,80,69,69,75,8
6,32,37,36)
32717 CALL LOAD(9491,100)
32718 CALL LOAD(9509,2,224,3
7,20,3,0,0,0,2,0,0,100,200,0
,37,18,4,192,2,1,0,1,4,32,32
,12,4,32)
32719 CALL LOAD(9536,32,24,1
8,184,192,32,131,74,2,1,37,0
,208,160,131,18,9,130,2,34,2
55,255,4,32,32,44)
32720 CALL LOAD(9562,4,197,2
09,34,36,255,9,132,19,21,4,1
95,60,224,37,18,200,5,131,76
,200,5,131,78,200,5)
32721 CALL LOAD(9588,131,80,
2,5,64,0,161,68,2,131,0,1,17
,6,2,5,65,0,161,67,6,196,200
,4,131,76)
32722 CALL LOAD(9614,200,5,1
31,74,4,192,192,66,5,129,4,3
7,254)
32723 CALL LOAD(9636,2,224,3
7,20,3,0,0,0,4,192,2,1,0,1,2
00,1,37,18,4,32,32,12,4,32,3
2,24,18,184)
32724 CALL LOAD(9664,200,32,
131,74,37,0,184,32,131,18,37
,19,2,3,0,2)
32725 CALL LOAD(9680,4,192,1
92,67,4,32,32,12,4,32,32,24,
18,184,216,224,131,75,37,0,5
,131,136,3)
32726 CALL LOAD(9704,37,18,2
2,242,192,32,37,0,2,1,37,2,1
92,131,2,34,255,254,4,32,32,
36)
32727 CALL LOAD(9726,4,192,2
16,0,131,124,2,224,131,224,4
,96,0,112)
32728 CALL LOAD(9740,3,0,0,0
,4,192,2,1,0,1,4,32,32,12,20
0,32,131,74,37,18,2,1,0,2,4,
32,32,12,4,32)

```



```

32729 CALL LOAD(9770,32,24,1      5)
8,184,192,32,131,74,208,32,3    32738 IF A2$<" THEN A1=A1+
7,19,4,32,32,48,4,91)          VAL(A2$)ELSE A1=A1+ASC(A2$)-
32730 CALL LOAD(B194,39,04)      55
32731 SUBEND                      32740 CALL LINK("POKEV",767+
32732 SUB CHAR(A,A$):: L=LEN     B+A+(I+1)/2,A1)
(A$)                              32741 NEXT I
32733 A$=A$&RPT$("0",16-L)      32742 SUBEND
32734 FOR I=1 TO 16 STEP 2       32743 SUB COLOR(A,B,C)
32735 A1$=SEG$(A$,I,1)          32744 CALL LINK("POKEV",2063
32736 A2$=SEG$(A$,I+1,1)        +A,(B-1)+C-1)
32737 IF A1$<" THEN A1=VAL      32745 SUBEND
(A1$) ELSE A1={ASC(A1$)-5

```

CRYPTOGRAM MAKER
By Mark Harcs

```

100 CALL CLEAR
110 RANDOMIZE
120 X=INT(RND*25)+1
130 LINPUT A$ :: CALL CLEAR
140 FOR T=1 TO LEN(A$)
150 IF X+ASC(SEG$(A$,T,1))>9
0 THEN 160 ELSE 180
160 A=ASC(SEG$(A$,T,1))
170 T$=CHR$(A-26+X):: B$=B$&
T$ :: T$="" :: 60TO 210
180 IF ASC(SEG$(A$,T,1))<65
OR ASC(SEG$(A$,T,1))>90 THEN
190 ELSE 200
190 B$=B$&SEG$(A$,T,1):: 60T
D 210
200 B$=B$&CHR$(X+ASC(SEG$(A$,
T,1)))
210 NEXT T
220 PRINT A$:"":B$:"":""
230 INPUT "WANNA PRINT OUT?
(Y/N) ":D$ :: IF D$="" OR D$
="" THEN 240 ELSE RUN 100
240 OPEN #1:"PIQ"
250 PRINT #1:A$:"":B$:"":
"" :: CLOSE #1 :: RUN 100

```

PRINTER OPTIONS

Printer Option Program

This Program allows you to control an Epson or Epson compatible printer.

First, the MAIN program:

```
100 REM PRINTER OPTION PROGRAM
110 REM BY J. D. GOOTEE
120 REM 12/12/84 UPDATED 2/16/85
130 REM BASIC OR XB AND PIO PRINTER
140 FLAG=1
150 CALL CLEAR
160 PRINT "      PRINTER OPTIONS"
170 PRINT ::
180 PRINT " 1 - CONDENSED MODE"
190 PRINT :
200 PRINT " 2 - ENLARGED MODE"
210 PRINT :
220 PRINT " 3 - EMPHASIZED MODE"
230 PRINT :
240 PRINT " 4 - DOUBLE-STRIKE"
250 PRINT :
260 PRINT " 5 - UNDERLINE MODE"
270 PRINT :
280 PRINT " 6 - SKIP PERFORATION"
290 PRINT :
300 PRINT " 7 - COMBINATION
```

OF ABOVE*

```
310 PRINT :
320 PRINT " 8 - RESET PRINTER"
330 PRINT :::
340 INPUT "ENTER CHOICE ":CHOICE
350 ON CHOICE GOTO 370,450,530,610,690,770,860,890
360 END
```

Line 350 is a COMPUTED GOTO. It checks the value of the variable "CHOICE" and executes the corresponding GOTO statement. Ex. CHOICE = 2, then execution moves to line 450, and so on.

The next parts of the program are the real workers in the program. These lines actually tell the printer to do something.

The Condensed Mode Routine:

```
370 REM CONDENSED MODE
380 IF FLAG=1 THEN 430
390 OPEN #1:"PIO"
400 PRINT #1:CHR$(27)&CHR$(15)
410 CLOSE #1
420 GOTO 910
430 GOSUB 960
440 GOTO 400
```

If you are using an RS232 printer such as the TI

printer, change "PIO" to "RS232.BA=1200" or whatever is best for your printer. In line 400, the character string is from the printer manual--all values are decimal.

The Enlarged Type Mode:

```
450 REM ENLARGED MODE
460 IF FLAG=1 THEN 510
470 OPEN #1:"PIO"
480 PRINT #1:CHR$(27)&CHR$(
87)&CHR$(1)
490 CLOSE #1
500 GOTO 910
510 GOSUB 960
520 GOTO 470
```

The Emphasized Font Mode:

```
530 REM EMPHASIZED MODE
540 IF FLAG=1 THEN 590
550 OPEN #1:"PIO"
560 PRINT #1:CHR$(27)&CHR$(
69)
570 CLOSE #1
580 GOTO 910
590 GOSUB 960
600 GOTO 550
```

The Double Strike Mode:

```
610 REM DOUBLE-STRIKE MODE
620 IF FLAG=1 THEN 670
630 OPEN #1:"PIO"
640 PRINT #1:CHR$(27),&CHR$(
71)
650 CLOSE #1
```

```
660 GOTO 910
670 GOSUB 960
680 GOTO 630
```

The Continuous Underlining Mode:

```
690 REM UNDERLINE MODE
700 IF FLAG=1 THEN 750
710 OPEN #1:"PIO"
720 PRINT #1:CHR$(27)&CHR$(
45)&CHR$(1)
730 CLOSE #1
740 GOTO 910
750 GOSUB 960
760 GOTO 710
```

The Skip Perf Routine

```
770 REM SKIP PERF ROUTINE
780 IF FLAG=1 THEN 830
790 OPEN #1:"PIO"
800 PRINT #1:CHR$(27)&CHR$(
78)&CHR$(8)
810 CLOSE #1
820 GOTO 910
830 GOSUB 960
840 GOTO 790
850 GOSUB 960
```

The Skip Perf mode can make reading a print out much easier by putting spaces or blank lines on each side of the page perforations.

The Combination Mode:

```
860 REM COMBINATION MODE
870 FLAG=0
```

880 GOTO 150

The Printer Reset Command:

890 REM RESET PRINTER
900 GOSUB 960

The Exit Routine:

910 REM EXIT ROUTINE
920 INPUT "OTHER OPTIONS? (Y/N) ":AN\$
930 IF AN\$="Y" THEN 950
940 END
950 IF FLAG=0 THEN 340 ELSE
150

The Reset Command list:

960 REM RESET SUBROUTINE
970 OPEN #1:"PIO"
980 PRINT #1:CHR\$(27)&CHR\$(18)&CHR\$(27)
&CHR\$(87)&CHR\$(0)&CHR\$(27)
&CHR\$(45)

&CHR\$(0)&CHR\$(27)&CHR\$(70)
&CHR\$(27)
&CHR\$(72)&CHR\$(27)&CHR\$(60)
&CHR\$(27)
&CHR\$(79)
990 CLOSE #1
1000 RETURN

On some printers, line 980 could be:

980 PRINT #1:CHR\$(27)&CHR\$(64)

It depends on whether your printer recognizes the "ESCAPE @" command as a reset.

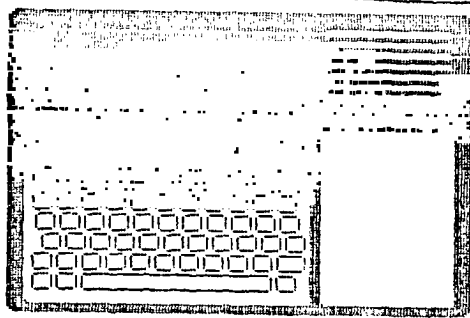
By working with this program you will be able to adapt it to your own needs.

Article from the Decatur 99'er Users Group newsletter.

CRYPTO ANSWERS

CONSOLE MODULE MONITOR MEMORY

DISK CASSETTE PRINTER CARTRIDGE MODEM



It's good to know that there are some people that do type in the programs we print in the newsletter. In our last newsletter, we inadvertently lost the last part of the program from the Chicago Tribune's Brown. We apologize for the error. Here is the program, complete.

```
1 GOTO 48
48 REM STORE 169
49 RANDOMIZE
50 CJHL$="23110907"
51 DIM Q(16)
52 CALL CLEAR
53 CALL CHAR(104,"FFFF")
54 CALL SCREEN(10)
55 CALL HCHAR(2,1,104,160)
56 CALL HCHAR(19,1,104,160)
57 X=3
58 Y=5
59 CALL CHAR(112,"FFFFFFFF
FFFFFF")
60 CALL CHAR(120,"FFFFFFFF
FFFFFF")
61 FOR Z=1 TO 16
62 READ Q(Z)
63 CALL COLOR(11,Y,Y)
64 CALL COLOR(12,X,X)
65 CALL HCHAR(10,5,112,22)
66 CALL HCHAR(14,5,120,22)
67 CALL HCHAR(12,Z+7,Q(Z))
68 CALL HCHAR(8,2*Z-1,62,2)
69 CALL SOUND(100,-2,2)
70 CALL HCHAR(16,33-2*Z,60,2)
)
71 CALL COLOR(11,X,X)
72 CALL COLOR(12,Y,Y)
73 NEXT Z
74 FOR B=1 TO 500
75 NEXT B
77 I=200
78 T=400
79 H=600
80 W=1200
81 S=100
82 FOR B=1 TO 500
83 NEXT B
84 WARN=0
85 REM B=170
86 REM B=1 TO 355
87 NEXT B
88 GOSUB 170
89 FOR B=1 TO 355
90 NEXT B
91 CALL SOUND(S,233,10,156,1
0)
92 CALL SOUND(I,220,7,147,7)
93 GOSUB 223
94 CJH$=SEG$(CJHL$,1,4)
95 FOR B=1 TO 30
96 NEXT B
97 CALL SOUND(S,208,10,139,1
0)
98 CALL SOUND(I250,196,7,131
,7)
99 GOSUB 223
100 FOR B=1 TO 355
101 NEXT B
102 GOSUB 170
103 FOR B=1 TO 455
104 NEXT B
105 GOSUB 178
106 CALL SOUND(S,659,2,233,1
0,156,10)
107 CALL SOUND(S,784,1,220,7
,147,7)
108 GOSUB 223
109 FOR B=1 TO 30
110 NEXT B
111 CALL SOUND(S,988,2,208,1
0,139,10)
112 CALL SOUND(H,932,1,196,7
,131,7)
113 HL$=SEG$(CJHL$,5,4)
114 CALL SOUND(S,932,2)
115 CALL SOUND(S,880,2)
116 CALL SOUND(S,784,2)
117 CALL SOUND(S,659,2)
```

118 CALL SOUND(S,587,2)	154 ZIP=1
119 CALL SOUND(790,659,1)	155 GOO=0
120 GOSUB 223	156 GOTO 105
121 IF GOO=704 THEN 136	157 CALL SOUND(H,330,17)
122 GOO=704	158 CALL SOUND(H,247,20)
123 GOSUB 170	159 CALL SOUND(H,165,25)
124 GOSUB 178	160 CALL SCREEN(16)
125 CALL SOUND(S,784,2,220,1	161 CALL SOUND(2000,740,1,58
0,147,10)	7,1,392,1)
126 CALL SOUND(S,988,1,235,7	162 FOR X=6 TO 14
,156,7)	163 CALL COLOR(X,10,1)
127 GOSUB 223	164 NEXT X
128 FOR B=1 TO 30	165 L#=SEG\$IHL\$,3,2)
129 NEXT B	166 CALL KEY(0,X,Y)
130 CALL SOUND(S,1319,2,247,	167 IF Y=0 THEN 166
10,165,10)	168 END
131 CALL SOUND(1500,1245,1,2	169 DATA 84,72,69,32,80,73,7
62,2,175,2)	8,75,32,80,65,78,84,72,69,82
132 GOSUB 170	170 CALL SOUND(S,208,10,139,
133 H#=SEG\$(HL\$,1,2)	10)
134 GOSUB 178	171 CALL SOUND(I,220,7,147,7
135 GOTO 106)
136 GOSUB 170	172 GOSUB 223
137 G=I+S	173 FOR B=1 TO 30
138 CALL SOUND(S,1319,1)	174 NEXT B
139 CALL SOUND(S,1175,3)	175 CALL SOUND(S,233,10,156,
140 CALL SOUND(S,988,1)	10)
141 C#=SEG\$(CJ\$,1,2)	176 CALL SOUND(I,1250,247,5,16
142 CALL SOUND(S,880,3)	5,5)
143 CALL SOUND(S,784,1)	177 RETURN
144 CALL SOUND(S,659,3)	178 CALL SOUND(S,622,2)
145 FOR NANO=1 TO 4	179 CALL SOUND(S,659,1)
146 CALL SOUND(S,932,2)	180 GOSUB 223
147 CALL SOUND(S,880,1)	181 FOR B=1 TO 150
148 NEXT NANO	182 NEXT B
149 FOR SHAZBOT=1 TO 3	183 CALL SOUND(S,740,2)
150 A=200	184 J#=SEG\$(CJ\$,3,2)
151 GOSUB 205	185 CALL SOUND(S,784,1)
152 NEXT SHAZBOT	186 GOSUB 223
153 IF ZIP=1 THEN 157	187 FOR B=1 TO 180

```

188 NEXT B
189 CALL SOUND(S,622,2)
190 CALL SOUND(S,659,1)
191 GOSUB 223
192 FOR B=1 TO 30
193 NEXT B
194 CALL SOUND(S,740,2)
195 CALL SOUND(S,784,1)
196 GOSUB 223
197 FOR B=1 TO 30
198 NEXT B
199 CALL SOUND(S,1047,1)
200 CALL SOUND(S,988,1)
201 GOSUB 223
202 FOR B=1 TO 30
203 NEXT B
204 RETURN
205 CALL SOUND(A,784,2)
206 CALL SOUND(A,659,2)
207 CALL SOUND(A,587,2)
208 CALL SOUND(A,659,2)
209 CALL SOUND(H,659,4)
210 GOSUB 223
211 CALL SOUND(S,740,2)
212 IF (WARN=2)+(WARN=5) THEN
215
213 GOSUB 170
214 GOTO 222
215 CALL SOUND(S,233,10,156,
10)
216 CALL SOUND(I,220,7,147,7
)
217 GOSUB 223
218 FOR B=1 TO 31
219 NEXT B
220 CALL SOUND(S,208,10,139,
10)
221 CALL SOUND(1250,196,7,13
1,7)
222 RETURN
223 LP=INT(RND)*1
226 CALL SCREEN(LP)
227 RETURN
157 CALL SOUND(H,330,17)

```

SPECIAL CHARACTERS
BY: THE TIGERCUB

Are you making use of those special characters that are available on you Gemini printer? You didn't know about them? Try this. 100 OPEN #1:"PIO":PRINT #1:(hold down the CTRL key and type 1234567/ and then hold down the FCTN key and type <>/0;BHJKLMNGY) ". RUN. Surprised? Some of those can be very useful, such as the true division sign that you get with FCTN H. There are many more of these that you can access by CHR#. For a complete list of them and their CHR# codes, run this. 100 OPEN #1:"PIO":FOR CH=160 TO 254:PRINT #1:CH;CHR\$(CHR);:NEXT CH::CLOSE #1. Unfortunately, these cant't be used out of TI-Writer.

Ααθ€¢'ΩυπΣσ±Ο×÷Àāçƒāμ*

I have been over looking another feature, the skip-over perforation feature. PRINT #1:" N"&CHR\$(6), use (CTRL.) in the space since this causes the printer to interpret the blank space as a escape. This makes it possible to LIST"PIO" a program or PF PIO from TI-WRITER editor without printing right across the perforations.

```

100 !+++++!
110 ! "Label Maker" !
120 !By John Behnke !
130 ! Chicago Times !
140 !Requires XB and!
150 ! Printer !
160 !+++++!
170 CALL CLEAR
180 TYPE$(1)="DIS/FIX"
190 TYPE$(2)="DIS/VAR"
200 TYPE$(3)="INT/FIX"
210 TYPE$(4)="INT/VAR"
220 TYPE$(5)="PROGRAM"
230 OPEN #2:"PID"
240 PRINT #2:CHR$(27);"S";CHR$(10)
250 PRINT #2:CHR$(27);CHR$(15)
260 PRINT #2:CHR$(27);"3";CHR$(9)
270 PRINT "PLACE DISKETTE IN DRIVE 1:" AND HIT <ENTE R>"
280 CALL KEY(0,K,S):: IF S=0 THEN 280
290 W=0
300 OPEN #1:"DSK1.",INPUT,RELATIVE,INTERNAL
310 INPUT #1:A$,J,J,K
320 PRINT #2:" Diskette: ";A$;" Available=";K;" Used=";J-K
330 PRINT "Diskette: ";A$;" Available=";K;" Used=";J-K

```

```

340 PRINT #2
350 PRINT #2:" Name Size e Type P Name S ize Type P"
360 PRINT #2:"-----"
-----
380 FOR I=1 TO 127
390 IF I/2=INT(I/2) THEN Q=31 ELSE Q=1 :: W=W+1
400 INPUT #1:A$,A,J,K
410 IF LEN(A$)=0 THEN 530
420 PRINT #2:TAB(Q);A$;TAB(1+Q);J;TAB(16+Q);TYPE$(ABS(A)););
430 PRINT A$;TAB(12);J;TAB(17);TYPE$(ABS(A));
440 IF ABS(A)=5 THEN 480
450 B$=" "&STR$(K)
460 PRINT #2:SEE$(B$,LEN(B$)-2,3);
470 PRINT SEE$(B$,LEN(B$)-2,3);
480 IF A>0 THEN 510
490 PRINT #2:TAB(27+Q);"Y";
500 PRINT TAB(28);"Y";
510 IF Q=31 THEN PRINT #2:"" :: PRINT
520 NEXT I
530 FOR I=1 TO 13-W
540 PRINT #2
550 NEXT I
560 CLOSE #1 :: 60TD 270
570 END

```

Diskette: 600DSTUFF Available= 290 Used= 428

Name	Size	Type	P	Name	Size	Type	P
PROGRAM	56	PROGRAM	00	PROGRAM	56	PROGRAM	00
FILE 1	56	FILE	00	FILE 1	56	FILE	00
FILE 2	56	FILE	00	FILE 2	56	FILE	00
FILE 3	56	FILE	00	FILE 3	56	FILE	00
FILE 4	56	FILE	00	FILE 4	56	FILE	00
FILE 5	56	FILE	00	FILE 5	56	FILE	00
FILE 6	56	FILE	00	FILE 6	56	FILE	00
FILE 7	56	FILE	00	FILE 7	56	FILE	00
FILE 8	56	FILE	00	FILE 8	56	FILE	00
FILE 9	56	FILE	00	FILE 9	56	FILE	00
FILE 10	56	FILE	00	FILE 10	56	FILE	00
FILE 11	56	FILE	00	FILE 11	56	FILE	00
FILE 12	56	FILE	00	FILE 12	56	FILE	00
FILE 13	56	FILE	00	FILE 13	56	FILE	00
FILE 14	56	FILE	00	FILE 14	56	FILE	00
FILE 15	56	FILE	00	FILE 15	56	FILE	00
FILE 16	56	FILE	00	FILE 16	56	FILE	00
FILE 17	56	FILE	00	FILE 17	56	FILE	00
FILE 18	56	FILE	00	FILE 18	56	FILE	00
FILE 19	56	FILE	00	FILE 19	56	FILE	00
FILE 20	56	FILE	00	FILE 20	56	FILE	00
FILE 21	56	FILE	00	FILE 21	56	FILE	00
FILE 22	56	FILE	00	FILE 22	56	FILE	00
FILE 23	56	FILE	00	FILE 23	56	FILE	00
FILE 24	56	FILE	00	FILE 24	56	FILE	00
FILE 25	56	FILE	00	FILE 25	56	FILE	00
FILE 26	56	FILE	00	FILE 26	56	FILE	00
FILE 27	56	FILE	00	FILE 27	56	FILE	00
FILE 28	56	FILE	00	FILE 28	56	FILE	00
FILE 29	56	FILE	00	FILE 29	56	FILE	00
FILE 30	56	FILE	00	FILE 30	56	FILE	00
FILE 31	56	FILE	00	FILE 31	56	FILE	00
FILE 32	56	FILE	00	FILE 32	56	FILE	00
FILE 33	56	FILE	00	FILE 33	56	FILE	00
FILE 34	56	FILE	00	FILE 34	56	FILE	00
FILE 35	56	FILE	00	FILE 35	56	FILE	00
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FILE 37	56	FILE	00	FILE 37	56	FILE	00
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FILE 98	56	FILE	00	FILE 98	56	FILE	00
FILE 99	56	FILE	00	FILE 99	56	FILE	00
FILE 100	56	FILE	00	FILE 100	56	FILE	00