



The **MID ILLINOIS COMPUTER RESOURCE ORGANIZATION**
P. O. BOX 766 BLOOMINGTON, ILL. 61701-0766

BLOOMINGTON - NORMAL MICRO NEWSLETTER
August 1984, Vol. 2, No. 8

Welcome to the age of the computer in the home! Future meetings will be held the third thursday of each month at 7 P.M. in Room 200 Turner Hall, ILLINOIS STATE UNIVERSITY, Normal, IL. Future dates include August 16, September 20, October 18, and November 15, 1984.

The program for August will consist of:

- * Our normal business meeting.
- * Special Interest Group (SIG) Meetings.

***** PRESIDENTS NOTES *****

Well, once again it is time to sit down at the keyboard and create another edition of the MICRO NEWS. I have given up hope of anyone helping me edit the articles for for this newsletter so everyone will simply have to put up with what I decide to write.

Due to a class I had to attend in Chicago I was not able to be at our last meeting. However, based on what I heard, our SIG groups should be well on their way. My personal opinion is that the SIG groups will greatly help our membership get the most out of their computers and everyone should try to attend the meetings if at all possible.

Recently I have become aware of the fact that several of our members are dropping out of the club and selling their 99/4A's. There could be several reason for dropping out including computer upgrading, lack of equipment, are just finding out you really don't like computers after all. If that is the case, then I have no problems with your decision. However, if you are thinking of giving up due to apathy I urge you to give it some additional thought. The 99/4A is one of the easiest computers to learn on but the fact remains that you must use the computer to get anything out of it. To really get the most out of your computer I challenge you to get involed. Start with something simple and build on your experence, tear a program you have apart to see what makes it tick, take a class in Basic or get involed with our Special Interest Groups. If you do these things I'm sure you'll form a different opinion of your machine and you will find your computer well worth keeping.

Bill Hull

NEW FORMAT AT HOME COMPUTER MAGAZINE... In a July 16th news release HOME COMPUTER MAGAZINE announced that beginning with its September 1984 issue, the magazine will no longer carry outside advertising.

According to the Publisher, the decision to remove advertising will result in greater editorial and artistic freedom and reduce cost as each article can be presented in its entirety without extensive layout work.

As a long time subscriber to HCM I wonder if this is really their reason for taking this action or is there something else on the horizon. Rumors have persisted for months that HCM was on its last leg and based on standard logic there remains many questions in my mind. Most magazine publishers encourage advertising as a means of keeping subscription and newsstand prices low. HCM however, states that it has thoroughly analyzed the financial considerations of their move and have found that revenue projections were very favorable. The news release did not give any indication however, that subscription price would remain the same.

With the change taking place it will be my decision to take a wait and see attitude before I renew my subscription.

FOR SALE... The following members have listed the following items for sale:

TI 99/4A, recorder, Basic books, Parsec game cartridge to be sold as one unit. Priced at \$140.00 interested parties should contact Jeff Gelske at 309-473-3201.

Computer desk. This desk was duplicated from an illustration in the TENEX catalog. Constructed from 3/4 inch yellow pine, this desk is finished in oak and comes on casters for easy moving. See Wayne or Aubrey Johnson at the next meeting or call 309-452-3210. Asking \$45.00.

NEW SOFTWARE IN THE LIBRARY... Surprisingly enough we have received yet another CARE package from TI. The package we received in the mail this month contains enhancements to MICROSOFT MULTIPLAN, TI WRITER, and it also contains the source code for TI FORTH. Copies of this software will be will become available as soon as backup copies can be made.

***** 1984 MICRO OFFICERS *****

PRESIDENT	BILL HULL	454-3062
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TIPS FROM THE TIGERCUB No. 14

Distributed by Tigercub Software to users groups for promotional purposes and in exchange for their newsletters.

Tigercub Software, 156 Collinwood Ave., Columbus OH 43213, has over 130 original programs available at only \$3.00 each. My catalog is available for \$1.00 which may be deducted from your first order.

It has come to my attention that the members of some users groups have never heard of my kitchen-table enterprise, although their group has been receiving my newsletter for several months. It appears that many users groups have no method of making available to their members the information from newsletters which they receive in exchange.

My software business is a failure, and my Tips are a complete failure as a promotional effort. During the month of July I received a total of 31 requests for my catalog, of which only 9 were the result of newsletter publicity. I do not want to discontinue these Tips, because of the many interesting newsletters that I receive in exchange. However, I can no longer afford to distribute them to those groups which never give any indication that my Tips are reaching their members.

You may have observed that the Tigercub now possesses a Gemini 10X printer. The only fault I could find with it was that it wouldn't print Chinese, so I remedied that defect with this little program.

```
100 !THIS ROUTINE INITIALIZE
S THE GEMINI 10X TO PRINT 'C
HINESE' UNTIL IT IS TURNED O
FF - by Jim Peterson
110 OPEN #1:"PIO"
```

```
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(8):: CALL CLEAR
130 FOR CH=65 TO 90 :: PRINT
"WORKING..." :: FOR J=1 TO
7 :: FOR L=1 TO 9 :: RANDMI
ZE :: IF (INT(3*RND+1)<3)+(
L>1)*(D(J,L-1)>0))THEN 150
140 D(J,L),D(J,10-L)=(1+ABS(
J>1))^J
150 NEXT L
160 NEXT J
170 FOR L=1 TO 9 :: FOR J=1
TO 7 :: X(L)=X(L)+D(J,L):: N
EXT J :: NEXT L
180 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(CH);CHR$(1);
CHR$(X(1));CHR$(X(2));CHR$(X
(3));CHR$(X(4));CHR$(X(5));C
HR$(X(6));CHR$(X(7));CHR$(X(
8));CHR$(X(9))
190 FOR J=1 TO 7 :: FOR L=1
TO 9 :: D(J,L)=0 :: NEXT L :
: NEXT J
200 FOR L=1 TO 9 :: X(L)=0 :
: NEXT L :: NEXT CH
210 PRINT #1:CHR$(27);CHR$(3
6);CHR$(1);
220 PRINT #1:CHR$(27);CHR$(8
7);CHR$(1)
230 PRINT #1:CHR$(27);CHR$(7
1)
240 STOP
```

Now, without turning off the printer, type LIST "PIO" or run any program that puts out text to the printer. It won't fool a Chinaman but it might impress your friends.

Here's a little something for you who own the Terminal Emulator II and the Speech Synthesizer. Maybe our Congressmen could use it to help them discuss the national debt.

```
100 CALL CLEAR
110 PRINT TAB(7);"NUMBER SPE
AKER" : : "by Jim Peterson":
" of Tigercub Software"
: : :
120 PRINT " This program will
I print any": " number of les
s than 67": "digits in number
s and in"
130 PRINT "words, and will s
peak the": "words." : : : " R
equires Terminal Emulator":
II and Speech Synthesizer." :
: :
140 CALL CHAR(39,"0000000000
301020")
```

```
150 OPEN #1:"SPEECH",OUTPUT
160 DIM HIGH$(21),NN$(23)
170 DATA ONE,TWO,THREE,FOUR,
FIVE,SIX,SEVEN,EIGHT,NINE
180 DATA TEN,ELEVEN,TWELVE,T
HIRTEEN,FOURTEEN,FIFTEEN,SIX
TEEN,SEVENTEEN,EIGHTEEN,NINE
TEEN
190 DATA TWENTY,THIRTY,FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY,
NINETY
200 DATA THOUSAND,MILLION,BI
LLION,TRILLION,QUADRILLION,Q
UINTILLION,SEXTILLION,SEPTIL
LION,OCTILLION,NONILLION
210 DATA DECILLION,UNDECILLI
ON,DUDECILLION,TREDECILLION
,QUATTUORDECILLION,QUINDECIL
LION,SEXTEDECILLION
220 DATA SEPTENDECILLION,OCT
ODECILLION,NOVENDECILLION,VI
GINTILLION
230 FOR J=1 TO 9
240 READ ONE$(J)
250 NEXT J
260 FOR J=1 TO 10
270 READ TEEN$(J)
280 NEXT J
290 FOR J=1 TO 8
300 READ TEN$(J)
310 NEXT J
320 FOR J=1 TO 12
330 READ HIGH$(J)
340 NEXT J
350 PRINT : : :
360 PRINT #1:"NUMBER"
370 INPUT "NUMBER? ":N$
380 L=LEN(N$)
390 FOR J=1 TO L
400 IF POS("0123456789",SEG$
(N$,J,1),1)=0 THEN 360
410 NEXT J
420 IF (VAL(N$)<1)+(VAL(N$)<
>INT(VAL(N$)))THEN 360
430 IF L<67 THEN 470
440 PRINT "HEY! I CAN ONLY C
OUNT TO A": "VIGINTILLION!":
:
450 PRINT #1:"HAY I CAN ONLY
COUNT TO A VIGINTILLION"
460 GOTO 360
470 IF VAL(N$)>0 THEN 510
480 PRINT : : "ZERO" : :
490 PRINT #1:"ZERO"
500 GOTO 360
510 IF L/3=INT(L/3)THEN 540
520 N$="0"&N$
530 GOTO 380
540 X=L/3
550 FOR J=1 TO L STEP 3
560 JJ=JJ+1
570 NN$(JJ)=SEG$(N$,J,3)
```

```

580 IF J>1 THEN 610
590 P$=STR$(VAL(NN$(JJ)))
600 GOTO 620
610 P$=P$&" " & NN$(JJ)
620 NEXT J
630 PRINT : : P$ : :
640 FOR J=1 TO X
650 GOSUB 670
660 GOTO 1150
670 IF VAL(NN$(J))<>0 THEN 7
10
680 A$=""
690 FLAG=1
700 GOTO 1140
710 FLAG=0
720 H=VAL(SEG$(NN$(J),1,1))
730 T=VAL(SEG$(NN$(J),2,2))
740 TT=VAL(SEG$(NN$(J),2,1))
-1
750 VV=VAL(SEG$(NN$(J),3,1))
760 IF T=0 THEN 1000
770 IF T>9 THEN 810
780 A$=ONE$(T)
790 SP$=A$
800 GOTO 1000
810 IF T>19 THEN 880
820 A$=TEEN$(T-9)
830 IF T<>19 THEN 860
840 SP$="NINE TEEN"
850 GOTO 1000
860 SP$=A$
870 GOTO 1000
880 IF VV<>0 THEN 950
890 A$=TENS$(TT)
900 IF TT<>8 THEN 930
910 SP$="NINE TEE"
920 GOTO 1000
930 SP$=A$
940 GOTO 1000
950 A$=TENS$(TT)&" " & ONE$(VV)
960 IF TT<>8 THEN 990
970 SP$="NINE TEE" & ONE$(VV)
980 GOTO 1000
990 SP$=A$
1000 IF H=0 THEN 1080
1010 IF T=0 THEN 1050
1020 A$=ONE$(H)&" HUNDRED &
"&A$
1030 SP$=ONE$(H)&" HUNDRED &
"&SP$
1040 GOTO 1140
1050 A$=ONE$(H)&" HUNDRED"
1060 SP$=A$
1070 GOTO 1140
1080 IF (J<X)+(T=0)+(VAL(N$)
<100) THEN 1140
1090 A$=" " & " &A$
1100 IF (TT<>8)*(T<>19) THEN
1130
1110 SP$=" " & " &SP$
1120 GOTO 1140
1130 SP$=A$

```

```

1140 RETURN
1150 PRINT A$
1160 IF FLAG=1 THEN 1200
1170 PRINT #1:SP$
1180 PRINT HIGH$(X-J)
1190 PRINT #1:HIGH$(X-J)
1200 GOSUB 670
1210 NEXT J
1220 PRINT B$
1230 A$=""
1240 JJ=0
1250 B$=""
1260 P$=""
1270 FOR D=1 TO 500
1280 NEXT D
1290 GOTO 350

```

I hope you noticed that all those zeros were neatly slashed so that you wouldn't mistake them for 0's. Here's a little routine that will set up your printer to slash the 0's until you turn it off.

```

100 OPEN #1:"PIO"
110 PRINT #1:CHR$(27);CHR$(4
2);CHR$(0);
120 PRINT #1:CHR$(27);CHR$(4
2);CHR$(1);CHR$(48);CHR$(0);
CHR$(92);CHR$(34);CHR$(81);C
HR$(8);CHR$(69);CHR$(2);CHR$
(65);CHR$(34);CHR$(28)
130 PRINT #1:CHR$(27);CHR$(3
6);CHR$(1)
140 STOP

```

And, somebody might get mad if I don't include a little music -

```

100 REM - BELL MUSIC program
med by Jim Peterson
110 CALL CLEAR :: CALL SCREE
N(5):: RANDOMIZE
120 FOR CH=96 TO 136 STEP 4
:: FOR L=1 TO 4 :: X$=SEG$("
001B243C425A667EB199A5BDC3DB
E7FF",INT(16*RND+1)*2-1,2)::
B$=B$&X$ :: C$=X$&C$ :: NEX
T L
130 D$=B$&C$ :: Z$=RPT$(D$,4
)
140 CALL CHAR(CH,Z$):: B$,C$
,Z$=NULL$ :: CALL MAGNIFY(4):
: CALL SPRITE(#CH/4-23,CH,IN
T(15*RND+2),255,255):: NEXT
CH
142 FOR J=1 TO 10 STEP 2 ::
X=9*RND-9*RND :: Y=9*RND-9*R
ND :: CALL MOTION(#J,X,Y,#J+
1,X,Y):: NEXT J
150 FOR J=1 TO 20

```

```

155 CALL COLOR(0,INT(10*RND+1
),INT(15*RND+2))
160 FOR V=0 TO 16 STEP 4
170 ON J GOSUB 250,270,290,3
10,330,350,370,390,410,430,4
10,390,370,350,330,310,290,2
70,250,270,290,310,330,350
180 NEXT V
190 READ X
200 FOR D=1 TO X*5
210 NEXT D
220 NEXT J
230 RESTORE
240 GOTO 150
250 CALL SOUND(-999,131,V,52
3,V,131/2,30,-4,V)
260 RETURN
270 CALL SOUND(-999,165,V,16
7,V)
280 RETURN
290 CALL SOUND(-999,196,V,19
9,V)
300 RETURN
310 CALL SOUND(-999,262,V,26
5,V)
320 RETURN
330 CALL SOUND(-999,330,V,33
3,V)
340 RETURN
350 CALL SOUND(-999,392,V,39
4,V)
360 RETURN
370 CALL SOUND(-999,523,V,39
2,V,330,V)
380 RETURN
390 CALL SOUND(-999,659,V,66
6,V)
400 RETURN
410 CALL SOUND(-999,784,V,79
2,V)
420 RETURN
430 CALL SOUND(-999,1047,V,1
057,V)
440 RETURN
450 DATA 16,16,2,16,8,16,4,4
,16,2,16,4,16,8,8,16,2,2,16,
4,2,8,16

```

Just about MEMORY FULL, so
Happy hackin'

Jim Peterson

NEW PRODUCT ANNOUNCEMENT

Dear User's Group Leader:

I am writing to announce the availability of a new LOGO product that will be of interest to the members of your group. LOGOVILLE (tm) is a board game designed to help children aged 5 - 12 learn the most commonly used graphics commands in LOGO. No computer is needed to play the game, and no prior computer experience is required. The gameboard is designed to simulate a computer monitor and the actions of the LOGO "turtle." By playing LOGOVILLE (tm), children are helped to master 12 computer programming commands and the concepts associated with them. The game is fully compatible with virtually all currently available versions of the LOGO language. (Please see enclosed illustration).

LOGOVILLE (tm) comes complete with gameboard, 14 Mystery Square cards, 4 turtle playing pieces, dice, and instructions. The Mystery Square cards are designed to promote computer etiquette and computer literacy. The illustrated instruction booklet shows the movements of the turtle and provides definitions of the LOGO commands.

LOGOVILLE (tm) was developed by Dr. Brian Campbell, a university psychology professor and president of TUTTLE PRODUCTS. The game has been extensively field tested in preschools and elementary schools in Florida and is the first of a series of educational computer products featuring TUTTLE (tm) the turtle. LOGOVILLE(tm) is ideal for home or classroom use. Educators with limited computer resources will find the product especially beneficial in helping introduce children to LOGO and promoting computer literacy. Parents will find the game to be an exciting "off-the-computer" activity for young children.

To order LOGOVILLE, please send \$12.95 plus \$2.00 shipping and handling to:

Tuttle Products
P.O. Box 26981
Tamarac, FL 33320-6981

I hope that you will be able to announce this product in any newsletter you group produces. Please let me know if you require any further information or if you have any questions.

Sincerely,

Brian Campbell, Ph.D.

Brian Campbell, Ph.D.
(President, Tuttle Products)

MID ILLINOIS COMPUTER RESOURCE ORGANIZATION
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EDMONTON 99'ERS USER SOCIETY
P/O BOX 11983, EDMONTON
ALBERTA, CANADA T5T 2L1

```
*****  
*          MM      MM      IIIIII  CCCCCC  RRRRRRRR  00000000  *  
*          MM M M MM          II      CC      RP      RR      00      00  *  
*          MM M M MM          II      CC      RRRRRRRR  00      00  *  
*          MM  H  MM          II      CC      RR      RR      00      00  *  
*          MM      MM      IIIIII  CCCCCC  RR      RR      00000000  *  
*  
*          The MID ILLINOIS COMPUTER RESOURCE ORGANIZATION  *  
*****
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1103
1104
1105
1106
1107
1108
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1110