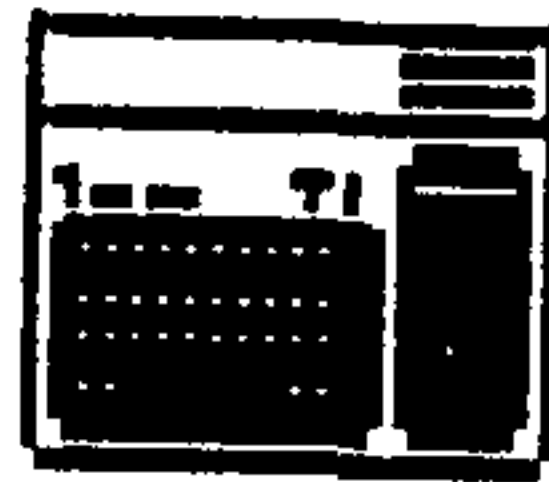


Spirit of 99



THE OFFICIAL NEWSLETTER OF THE CENTRAL OHIO NINETY-NINERS INC.

PUBLISHED MONTHLY IN COLUMBUS OHIO



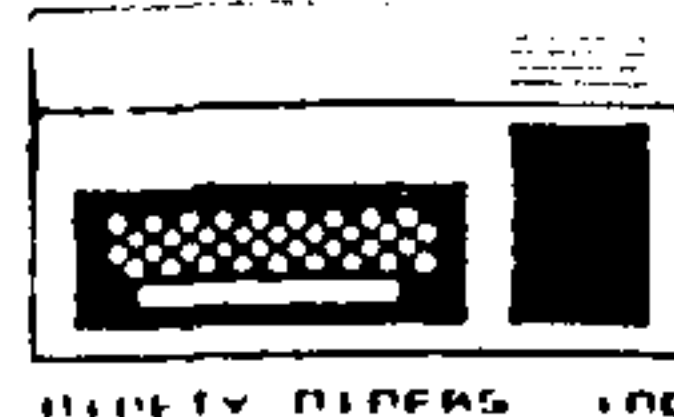
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Spirit of 99

THE OFFICIAL NEWSLETTER OF CENTRAL OHIO NINETY-NINERS



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Central Ohio Ninety Niners Inc. is a non profit organization comprised of MEMBERS who own or use the TI99/4A computer and it's related products and have paid a yearly membership fee of \$28.00 and whose main objective is the exchange of Educational and Scientific information for the purpose of computer literacy.

C.O.N.N.I. meetings are held the 2nd Saturday of each month at the Martin Janis Senior Center - East Eleventh Ave. at the Ohio State fairgrounds. Meeting time is at 9 am. Meetings are open to the public. Membership dues (\$28.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member. (An application has been placed

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COLUMBUS, OH 43214
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HAPPY 6TH ANNIVERSARY

C.O.N.N.I.



The October issue of the Spirit of 99 has some articles that feature the 6th birthday of the C.O.N.N.I. USER GROUP. Be sure to read the article by Roger Wills, President of C.O.N.N.I. in January 1984 as he describes how our user group got started and some of the people who were instrumental in its organization.

Also read the following two articles that were published in the Spirit of 99: BIGGIES' BITS - March 1983 and "FROM THE PRESIDENT" - March 1984.

Needless to say, I am very pleased that we had the dedication of these people to create C.O.N.N.I. I have said to others in the group, "I have been in few organizations that have members that are as friendly to visitors and new members and are so willing to share their expertise." I have only been a member since 1985; but am amazed at how much I have learned about how to use the TI from this group, particularly from the use of the buddy system. Dick Beery gave unselfishly of his time and knowledge to assist me in learning how to use the TI. (Plus that, he talked me into becoming editor of the Spirit of 99 which in turn encouraged me to learn more about TI Writer, thus made my job easier.) Other members - Jim Peterson, Chuck Grimes, Irwin Hott, John Parkins, Carol Parkins, Ken Marshall, Karl Romstedt and Curt Borders - to name a few, have always been ready with an answer to a question or bring to my attention the name of a program that would perform a task I needed done on the TI.

I find there are not enough hours in the day to do all I desire with the TI. I do mailing labels for two groups, print labels each month for a local Food Pantry, do my Genealogy, get out the C.O.N.N.I. newsletter each month, write ALL my letters, copied 3 Civil War diaries and indexed them, put my VCR tapes, household items and library books (Palatine to America - a German Genealogy organization) on disks with a Data Base with all of the neat TI programs available from the User Group Library, Disk of the Month, Fairware, Public Domain and purchases from Software Companies. I am currently working on an update to one of my family histories that I published in 1982, doing lesson plans for the Sunday School class that I teach, and am attempting to utilize the TI to assist my husband with his business records and accounting functions. I am constantly learning something new about the TI and what it will do for you. What do you use your TI for? Be a BUDDY to a new member, help someone else; teach a class, write an article for the newsletter, share and help our C.O.N.N.I. grow.

The C.O.N.N.I. group had a programming contest and the winners were announced at the August meeting. In the September 1988 issue you will find the grand prize winner's program - Loan/Amortization by Ralph Lathouse. The other winners were: James W. Klein, Kevin Noesner, Charles Osment and Jon VanWinkle. Look on page 9 for the program CRYPTOGRAM that was submitted by James W. Klein.

Jean Hall - Editor



One day in late 1982, Bill Zipf ask me if I was interested in forming a **USERS GROUP**. At the same time Art Morgan, Paul Powers and Pat Saturn were thinking along the same lines. They had been to some Cin-Day meetings and felt that it was too far to drive. So, Dale Smith's phone number was posted at Sun TV for a free User Group (Ha, Ha). Pat called him, and Paul who called Bill, anyway there were a lot of phone calls. At that time I had had my computer about two months. I do not exactly remember where that first preliminary meeting was held, but we decided to form a club using the constitution Texas Instruments recommended. We subsequently modified it slightly and decided to incorporate the club as a non-profit corporation. The first official meeting (following a couple of early morning breakfast meetings at the Village Inn) was in January 1983 at the **ELECTRICAL WORKERS BUILDING** on 2nd Avenue, courtesy of Joe Hoover. By this time Pat Saturn had worked hard to put together a **NEWSLETTER** and **BIGGIE** started to do his thing. The club's name and that of the newsletter were also decided upon in these early days. There was some debate about when we should hold our meetings but a major factor in choosing Saturday morning was the fact that Pat Saturn worked every evening. The one person who has really suffered from this decision is Rod Lerversee, our Librarian, because he has to work most Saturdays. However, this has not prevented Rod from doing an excellent job in helping to run the club and organize the Software library. Looking at the early newsletters indicates that most of the people who helped make this club become a roaring success were members in February 1983.

Texas Instruments did not officially recognize the club till February when we had adopted a constitution and elected officers:

President, Vice President, Secretary, Treasurer and Librarian: Roger Wills, Paul Powers, Bill Zipf, Art Morgan and Rod Lerversee, respectively. In the first few months the newsletter became better and better due mainly to the efforts of Jim Peterson, Pat Saturn and myself. TI told us that we had one of the best Club newsletters in the country. They also published one of Jim Peterson's articles in TI's own newsletter.

In the spring we had a few problems. First of all, the newsletter nearly went out of business as a result of growing pains. The second problem was related to the club's rapid growth. We had to find a larger hall for our meetings. At this point we did not know from one month to the next where we would be, and it was very important that the newsletters went out on time so everybody knew where the next meeting would be. There was much discussion about free parking, location etc. Joe Frederick, a relatively new member at that time, suggested that we could probably use **THE MARTIN JANIS CENTER**. We are really lucky to be able to use this facility. However we must all recognise that we are being allowed to use this building only as a special favor and that we should leave it as we find it-clean and tidy. In the summer we spent several month discussing copyrights and a Software Library. This was finally resolved and Rod Lerversee, Jim Peterson, Paul Powers and Sam Morabito put in a lot of hard work to get the library off the ground. We have approximately 200 programs. The library is a very important part of the club and I look forward to the next stage of its growth-the interchange of software with other **USERS GROUPS**. Sam Morabito organized some good visits and speakers during the year-OCLC, **ON LINE BANKING WITH THE HUNTINGTON BANK**-to name just a couple. I also managed to arrange a visit from Edward Weist, **USERS GROUP COORDINATOR FOR TI**. Over 100 people attended this special meeting in which Edward and John Phillips demonstrated TI Software, Quadrophonic Sound and

answered questions. Ed is now working in the Semiconductor division in Dallas. Thanks for your help, Edward.

I've tried to give all of you, particularly the newest members a bit of the club's history and tell you about some of the people who helped get the club to its current position. I hope I haven't missed anybody. It hasn't been all smooth riding, but the officers and a number of other people have created what many people have said to me is the best club they have ever been in. That is rather gratifying. The main challenge for the incoming officers is to build an organization to cater for the diverse skills and interests of the large and rapidly growing number of members. This will give opportunities to other people to step forward to guide and manage; the next stage of the club's life. I've certainly met a lot of new people and learned a great deal about my computer as a result of participating in this club.

Happy New Year!

President, Roger Wills

BIGGIES' BITS

Taken from Spirit of 99 - March 1983



```
20 REM PRINTING TRICK
30 REM by Jim Peterson
40 CALL CLEAR
50 PRINT :: "Judging from some published"::" programs I've seen some"::"
people don't know these":::::
60 FOR DELAY=1 TO 1000
70 NEXT DELAY
80 CALL CLEAR
90 PRINT "PRINT AND SKIP 2 LINES":::
100 PRINT "PRINT AND SKIP 4 LINES":::::
110 PRINT "PRINT"
120 PRINT ::"SKIP 2 LINES AND PRINT"
130 PRINT "DON'T SKIP";
140 A=1
150 PRINT " DIDN'T SKIP";
160 PRINT A
170 PRINT "LEFT","CENTER"
180 PRINT ::"","START","","IN","","CENTER"
190 REM RUN to see results...
200 END
```

```
100 REM **** CREATING CASSETTE DATA FILES ****
110 REM REPRINTED IN PART FROM PIONEER VALLEY USERS GROUP
120 REM CAN BE USED AS A SUBROUTINE IN MANY PROGRAMS
130 REM 656 BYTES USED...13888 BYTES REMAINING
140 REM LIBRARY FILE
150 CALL CLEAR
160 OPEN #1:"CS1",INTERNAL,FIXED 192,OUTPUT
170 FOR I=1 TO 100
180 READ TITLE$,AUTHOR$,CRDATE
```

```

190 IF TITLE$="THE END" THEN 220
200 PRINT #1:TITLE$,AUTHOR$,CRDATE
210 NEXT I
220 PRINT #1:"THE END","MR.  NOBODY",2000
230 CLOSE #1
240 DATA "BASIC FUN","LIPSCOMB/ZUANICH",1982
250 DATA "BASIC COOKBOOK","TRACTON",1982
260 DATA "30 BASIC PROG...", "CHANCE",1981
270 DATA "THE END","NOBODY",2001
280 REM ENTER YOUR OWN DATA
290 END

```

```

100 CALL CLEAR
110 REM RETRIEVE LIBRARY DATA SUBROUTINE
120 PRINT ::" BIGGIES' LIBRARY FILES":::::
130 REM LINE 110 YOUR OWN FILE NAME
140 OPEN #1:"CS1",INTERNAL,FIXED 192,INPUT
150 REM CALL CLEAR
160 FOR I=1 TO 100
170 INPUT #1:TITLE$,AUTHOR$,CRDATE
180 IF TITLE$="THE END" THEN 210
190 PRINT ;TITLE$,AUTHOR$,CRDATE
200 NEXT I
210 CLOSE #1
220 END

```

```

10 CALL CLEAR
20 PRINT "PERHAPS SOME PROGRAMERS"::"DO NOT REALIZE HOW RND  CAN"::"BE  USED
IN STATEMENTS":::::
30 REM
40 FOR DELAY=1 TO 1000
50 NEXT DELAY
60 CALL CLEAR
70 FOR A=1 TO 16
80 CALL COLOR(A,A,A)
90 NEXT A
100 RANDOMIZE
110 CALL HCHAR(INT(24*RND)+1,INT(28*RND)+3,INT(121*RND)+32,INT(10*RND)+1)
120 CALL VCHAR(INT(24*RND)+1,INT(28*RND)+3,INT(121*RND)+32,INT(10*RND)+1)
130 CALL SOUND(INT(500*RND)+100,INT(1000*RND)+110,5)
140 CALL SCREEN(INT(15*RND)+2)
145 GOTO 110
150 REM FUNCTION 4 TO STOP
160 END

```

```

SUBOCTAVE SUB ROUTINE
100 REM THIS PROGRAM WILL PLAY AND PRINT THE FREQUENCIES FOR TWO ADDITIONAL
OCTAVES OF BASS NOTES ON THE TI 99/4A.  USE THEM AS SHOWN IN LINE 160.  JIM
PETERSON

```

```

110 DEF R(X)=INT(X+.5)
120 F=1652
130 FOR J=1 TO 25

```

```

140 READ N$
150 PRINT N$;"=";R(F)
160 CALL SOUND(500,22000,30,22000,30,F,30,-4,0)
170 F=F/1.059463094
180 IF J<>12 THEN 200
190 RESTORE
200 NET J
210 DATA A,B flat,B,C,C#,D,E flat,E,F,F#,G,A flat,A

```

```

100 REM THIS PROGRAM PLAYS TREMOLO NOTES. CHANGE VALUE IN LINE 150 TO 1.01
OR 1.03 FOR MORE OR LESS TREMOLO. ST. JAMES INFIRMARY BLUES - JIM PETERSON

```

```

110 FOR J=1 TO 60 STEP 2
120 READ A,B
130 FOR L=1 TO A
140 CALL SOUND(-99,B,0)
150 CALL SOUND(-99,B*1.02,0)
160 NEXT L
170 NEXT J
180 DATA 2,330,2,294,4,330,4,294,4,330,4,294,4,262,B,220
190 DATA 2,330,2,294,6,330,2,294,4,330,4,262,12,247
200 DATA 2,294,2,262,4,294,4,262,4,294,2,330,2,294,4,262,B,220
210 DATA 4,262,4,262,4,220,4,262,4,247,16,220

```

```

100 REM WORLD'S SHORTEST TIC-TAC-TOE PROGRAM, BY RUSS WALTER IN THE SECRET
GUIDE TO COMPUTERS VOL. C2

```

```

110 PRINT "LET'S PLAY TICK-TACK-TOE";:"THE BOARD IS NUMBERED:":
120 PRINT "1 2 3";:"8 9 4";:"7 6 5";:"I MOVE TO 9";:"WHERE DO YOU MOVE TO?"
130 INPUT S
140 DEF FNM(X)=X-4+4*SGN(8.5-X)
150 C=FNM(S+1)
160 GOSUB 230
170 C=FNM(S+6)
180 IF S/2=INT(S/2) THEN 280
190 GOSUB 230
200 PRINT "I MOVE TO";FNM(S+4)
210 PRINT "THE GAME IS A DRAW"
220 STOP
230 PRINT "I MOVE TO";C
240 PRINT "WHERE DO YOU MOVE TO?"
250 INPUT H
260 IF H<>FNM(C+4) THEN 280
270 RETURN
280 PRINT "I MOVE TO";FNM(C+4);"AND WIN"
290 END

```

FROM THE PRESIDENT

Taken from Spirit of 99 - March 1984

AS THE NEW ADMINISTRATION BEGINS, WE WANT TO THANK THE PREVIOUS ADMINISTRATION FOR A JOB WELL DONE!

PAT SATURN, 1ST PRESIDENT
ROGER WILLS, PAST PRESIDENT
PAUL POWERS, VP
DR. WILLIAM ZIPF, SECRETARY
ART MORGAN, TREASURER
ROD LEVERSEE, LIBRARIAN
THESE INDIVIDUALS, WITH THE HELP OF MANY OTHERS, ACCOMPLISHED MANY TASKS, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- CREATED CONNI WITH A CURRENT MEMBERSHIP OF 294 MEMBERS
- ADOPTED BY-LAWS AND INCORPORATED THE CLUB
- DEVELOPED A SOFTWARE LIBRARY OF OVER 200 PROGRAMS
- CREATED AND PUBLISHED "SPIRIT OF 99" MONTHLY
- FOUNDED A REGULAR MEETING PLACE
- INITIATED CLASSES FOR BASIC AND ASSEMBLY PROGRAMMING

WE THANK THE MARTIN JANIS SENIOR CITIZENS CENTER FOR AN EXCELLENT MEETING PLACE

RETAIL MERCHANTS HAVE PLAYED A SIGNIFICANT ROLE IN OUR DEVELOPMENT IN MANY WAYS AND WE ACKNOWLEDGE THEM:

- SUN TV AND APPLIANCES
- COMMANDER SYSTEMS
- SOFTWARE CITY
- TIGERCUB SOFTWARE
- CELJIM ENTERPRISES
- MILLERS GRAPHICS
- AMLIST, INC.

A HEARTY THANKS TO TEXAS INSTRUMENTS FOR AN OUTSTANDING HOME COMPUTER AND SUPPORT TO OUR CLUB.

NOW WE HAVE MUCH TO ACCOMPLISH, AND THE NEW ADMINISTRATION HAS ALREADY STARTED TO FINETUNE A DYNAMIC CLUB.

YOUR OFFICERS FOR THIS NEW YEAR:

- SAM MORABITO, PRES.
- ROGER WILLS, V-PRES.
- KIM LAFOLETTE, SEC.
- ART MORGAN, TREAS.
- ROD LEVERSEE, LIBRARIAN

IT IS THE GOAL OF THIS PRESIDENT AND ADMINISTRATION TO ENCOURAGE PARTICIPATION AND EDUCATE IT'S MEMBERS.

ONE WAY WE'LL ACCOMPLISH THIS IS BY ORGANIZING ACTIVE COMMITTEES. AT OUR MARCH MEETING, WE SHALL ESTABLISH THE FOLLOWING COMMITTEES:

- LIBRARY
- PROGRAM
- MEMBERSHIP
- EDUCATION
- WAYS AND MEANS

ADDITIONALLY WE WILL SEEK HELP FOR OUR NEWSLETTER AND METHODS TO CONTROL AND FORMAT OUR REGULAR MEETINGS.

IN SHORT, WE HAVE SOME HARD WORK AHEAD OF US. BUT WITH ALL THE TALENT I KNOW WE HAVE, THE REWARDS SHOULD BE GREAT AND THE RESULT WILL BE MUCH FUN AND PLEASURE FOR ALL OF US. LOOKING FORWARD TO SEEING YOU ON MARCH 10!
SAM MORABITO, PRES.

=====





CRYPTOGRAM by JAMES W. KLEIN

```
100 REM **** CRYPTOGRAM ****
110 REM ***** J. KLEIN *****
120 REM ***** 08.07.08 *****
130 REM ***** C.O.N.N.I. ****
140 REM
150 REM THIS PROGRAM IS DESI
GNED TO ENTER CRYPTOGRAMS DU
T OF THE NEWSPAPER OR MAGAZI
NES ETC.
160 REM IT IS INTENDED TO SA
VE PENCILS AND PAPER. IT WIL
L NOT SOLVE YOUR PUZZLE FOR
YOU.
170 CALL CLEAR
180 M$="CRYPTOGRAM"
190 ROW=12
200 COL=11
210 L=LEN(M$)
220 GOSUB 1360
230 ROW=13
240 COL=15
250 M$="BY"
260 L=LEN(M$)
270 GOSUB 1360
280 ROW=14
290 COL=9
300 M$="JAMES W. KLEIN"
310 L=LEN(M$)
320 GOSUB 1360
330 ROW=15
340 COL=15
350 M$="FOR"
360 L=LEN(M$)
370 GOSUB 1360
380 ROW=16
390 COL=11
400 M$="C.O.N.N.I."
410 L=LEN(M$)
420 GOSUB 1360
430 FOR I=1 TO 1000
440 NEXT I
450 REM
460 DIM S1$(176),S2$(176)
470 REM*****
480 REM GET CRYPTOGRAM
490 CALL CLEAR
500 C=0
510 ROW=1
520 COL=3
530 ROWINC=1
540 C$=""
550 M$="ENTER CRYPTOGRAM:"
560 L=LEN(M$)
570 GOSUB 1360
580 ROW=ROW+2
590 COL=3
600 ROWINC=1
610 L=768
620 CALL HCHAR(ROW,COL,30)
630 GOSUB 1470
640 C=LEN(C$)
650 FOR I=1 TO C
660 S1$(I)=SEG$(C$,I,1)
670 NEXT I
680 REM*****
690 REM DISPLAY CRYPTOGRAM
700 CALL CLEAR
710 ROW=1
720 COL=3
730 ROWINC=3
740 FOR J=1 TO C
750 L=1
760 M$=S1$(J)
770 GOSUB 1360
780 NEXT J
790 REM*****
800 REM DISPLAY SOLUTION
810 FOR I=1 TO C
820 S2$(I)=CHR$(32)
830 NEXT I
840 ROW=2
850 COL=3
860 ROWINC=3
870 FOR J=1 TO C
880 L=1
890 M$=S2$(J)
900 GOSUB 1360
910 NEXT J
920 REM*****
930 REM LETTERS TO CHANGE
940 ROW=24
950 COL=3
960 M$="LETTER TO CHANGE?"
970 L=LEN(M$)
980 ROWINC=1
990 GOSUB 1360
1000 CALL SOUND(99,1200,1)
1010 L=1
1020 COL=COL+1
1030 GOSUB 1470
1040 L$=CHR$(KEY)
1050 IF KEY=14 THEN 1820
1060 M$="CHANGE TO?"
*
1070 ROW=24
1080 COL=3
1090 L=LEN(M$)
1100 GOSUB 1360
1110 CALL SOUND(99,1200,1)
1120 L=1
1130 COL=14
1140 GOSUB 1470
1150 L2$=CHR$(KEY)
1160 REM*****
1170 REM SEARCH S1$ ARRAY
1180 FOR I=1 TO C
1190 IF S1$(I)<>L$ THEN 1210
1200 S2$(I)=L2$
1210 NEXT I
1220 REM*****
1230 REM DISPLAY S2$ ARRAY
1240 ROW=2
1250 COL=3
1260 ROWINC=3
1270 FOR J=1 TO C
1280 L=1
1290 M$=S2$(J)
1300 GOSUB 1360
1310 NEXT J
1320 GOTO 940
1330 END
1340 REM*****
1350 REM DISPLAY AT ROUTINE
1360 FOR I=1 TO L
1370 D$=SEG$(M$,I,1)
1380 CALL HCHAR(ROW,COL,ASC(
D$))
1390 IF COL<30 THEN 1420
1400 ROW=ROW+ROWINC
1410 COL=2
1420 COL=COL+1
1430 NEXT I
1440 RETURN
1450 REM*****
1460 REM ACCEPT AT ROUTINE
1470 CALL KEY(0,KEY,STATUS)
1480 FOR DELAY=1 TO 10
1490 NEXT DELAY
1500 IF STATUS=0 THEN 1470
1510 A=A+1
1520 IF KEY=8 THEN 1700
1530 IF KEY=13 THEN 1650
1540 C$=C$&CHR$(KEY)
1550 CALL HCHAR(ROW,COL,KEY)
1560 IF A=L THEN 1660
1570 IF COL<28 THEN 1590
1580 CALL SOUND(50,1350,1)
1590 IF COL<30 THEN 1620
1600 ROW=ROW+ROWINC
1610 COL=2
1620 COL=COL+1
1630 CALL HCHAR(ROW,COL,30)
1640 GOTO 1470
1650 CALL HCHAR(ROW,COL,32)
1660 A=0
1670 RETURN
1680 REM*****
1690 REM BACK UP
1700 COL=COL-1
1710 C$=SEG$(C$,1,LEN(C$)-1)
1720 IF COL>2 THEN 1760
1730 CALL HCHAR(ROW,COL+1,32
)
1740 COL=30
1750 ROW=ROW-1
1760 CALL HCHAR(ROW,COL+1,32
)
1770 CALL HCHAR(ROW,COL,30)
1780 A=A-1
1790 GOTO 1470
1800 REM*****
1810 REM QUIT?
1820 M$="DO ANOTHER PUZZLE?"
1830 ROW=24
1840 COL=3
1850 L=LEN(M$)
1860 GOSUB 1360
1870 ROW=24
1880 COL=COL+1
1890 L=1
1900 ROWINC=1
1910 GOSUB 1470
1920 IF KEY=89 THEN 490
1930 CALL CLEAR
1940 END
```

THE NEW FEATURES OF FUNNELWEB

v4.1

by CHARLES GOOD

Lima Ohio User Group



(This is Part 2 - part 1 appeared in the Spirit of 99, Sept issue 1988)

UL LIST SPECIAL CONSIDERATIONS: Immediately after configuring a USER LIST and before pressing BACK to return to the third window it is necessary to S(ave) the configuration to the USER LIST, since this user list data is NOT saved as part of the configuration data file. When you return to the third window your USER LIST data may be lost. You may create as many USER LISTS as you want, each under different names. These lists can be loaded from each other, or they can be loaded from central menus. DISK UTILITIES from the TI-Writer central menu is a special user list file named DS, and can be configured from the "UL List" option of the third configuration window. If you come across a more recent release of FNB v4.1 you can use your previously configured user lists (files UL, DS, and any of your own user list files) unmodified with the more recent release. You don't have to configure your user lists all over again. I hope it will be possible to use modified v4.1 user lists in future versions of FNB (v4.2 etc) as well. Unfortunately the FNB authors state that v4.0 and earlier user lists are not guaranteed to be compatible with v4.1.

NEW FEATURES IN QUICK DIRECTORY:

You can now mark ANY file in QUICK DIRECTORY, invoked by AID from most places in FNB. If the marked file reads PROGRAM, then its name will appear on screen as the default when you load an assembly language PROGRAM file from items 1-3 of the LOADERS menu. If the marked file is D/F40, then it will show up on screen as the default when you load assembly object code from items 4-7 of the LOADERS menu. The ability to mark files from QUICK DIRECTORY for the LOADERS menu is new to v4.1. Any file may be marked for deletion, and after deletion the sector count and file name list displayed on screen by QUICK DIRECTORY are immediately updated. The ability to delete from QD and immediate updating in both QD and SD (from the editor) are new to v4.1.

I consider all the new features described in this paragraph to be very useful.

Other changes in QD include the ability to unmark a workfile name as Q(ld) and revert back to the previous workfile name. In v4.0 you could only do this by using SD from the editor. The N(ext) and B(ack) keys are now used to page through the alphabetical list of file names in QD rather than SHIFT/CTRL as in v4.0. This change makes QD consistent with other sections of FNB v4.1 since the "N" and "B" are commonly used to move forward or backward, particularly in configuration.

DM1000 CHANGES:

The FNB authors include their own modifications of DM1000v3.5 as part of the FNB package. (PLEASE NOTE: DM1000 is fairware, and if you use FNB you should not only send a fairware donation to the FNB authors, you should ALSO send a fairware donation to the Ottawa User Group for the use of DM1000.) v3.5 is the last source code sent directly to the FNB authors by the Ottawa UG and this is why the FNB authors have based their modifications on this rather than a later version. FNB co-author Tony McGovern writes me that he believes his modified v3.5 will do everything that DM100 v4.0 will do except line by line scrolling with V(iew). Tony has given DM1000 the squeeze job, and the result is that FNB's modified v3.5 files are smaller than the original v3.5 and much smaller than DM1000 v4.0.

The most important feature of FNB's DM1000 is that it formats disks at 18 sectors per track in DD mode with a Myarc disk controller. Bugs in T(ype), P(rint), and C(opy) have been fixed, and you can now use 3 digit printer entry codes. Horizon Ramdisks at high CRU addresses are fully supported except for initialization during Disk Copy.

OTHER FEATURES NEW TO FNB v4.1:

The formatter may now have 4 disk files open at the same time. From the assembler the object file name is passed back to the object file parts of the LOADERS menu and appears as the on screen default for immediate loading.

The keyboard control of DISK PATCH has been augmented to make it consistent with John Birdwell's DISK UTILITIES. The DISK PATCH title screen tells you that you can use the "original" keys (this means the keys that worked with FNB v4.0, which aren't quite the original DISKO keys) and an alternate set of key presses that corresponds to the keys used to control DISK UTILITIES (Ctrl/H for Hex display, Ctrl/M for next sector, Ctrl/W for write to sector, etc). If you are familiar with the keyboard controls of DISK UTILITIES you will have no trouble using FNB's DISK PATCH.

FINAL CONCLUSIONS:

In my opinion everyone who does serious disk based work with the 9/4A should be using FNB. If you don't have it, check

your group's library. User groups, not individuals, may obtain FUNNELWEB v4.1 at no charge by sending a disk and paid return mailer to the Lima User Group, P.O. Box 647, Venedocia OH 45894.

ANNOUNCEMENTS

Dues are usually paid at or before the March meeting, and are \$28 per year for full membership, library and voting privileges, plus the newsletter. You may also pay your dues in two installments if desired: \$14 in March and \$14 in September. If only the newsletter is desired, then payment is \$20 per year. Those who join during other months of the year pay a lesser, pro-rated amount:

Mar---28.00	Apr---25.75	May---23.50	Jun---21.00	Jul---18.75
Aug---16.50	Sep---14.00	Oct---11.25	Nov---9.50	Dec---7.00
Jan---4.75	Feb---2.50			

Fill out an application blank (one on the back of this newsletter), make a check out to C.O.N.N.I. and give it to Everett Wade, the membership registrar, at one of the meetings or mail to him at the following address:

Everett Wade 179 Erie Rd Columbus, OH 43214

MEETING AGENDA ----- SATURDAY 8 OCTOBER 1988

9-9:40 AM MEMBERS AND GUESTS SIGN IN
LIBRARIES OPEN
FACIMILIES OF EARLY NEWS-
LETTERS ON SALE
WALK AROUND TO VIEW SMALL
DEMONSTRATIONS

10:50- KARL ROMSTEDT
11:20 AM DEMONSTRATION OF THE
GENEVE

11:25- HARD DISK DEMONSTRATION
11:55 AM

9:45- BUSINESS MEETING
10:10 AM SPECIAL GREETING TO GUEST
CUTTING OF THE ANNIVERSARY
CAKE

12:00 AM BUILDING CLOSES

10:15- BUD MILLS DEMONSTRATION
10:45 AM 1- HORIZON RAM DISK
2- P-GRAM (SIMILAR TO THE
GRAMKRACKER)



++++
+ WEDNESDAY EVENING +
+ MEETING - OCT 26 +
++++
Australian Utilities
demonstration

++++
+ COFFEE ANYONE? +
+ SATURDAY MORNINGS +
++++
Call Jim Seitz (875-
5532 to host.



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156 Collingwood Ave.
Columbus, OH 43213

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Over 120 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST \$1.00 EACH!, plus \$1.50 per order for cassette or disk and PP&M. Minimum order of \$10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Handy Dandy series, and Color Programming Tutor, are no longer available on cassette.

Descriptive catalogs, while they last, \$1.00 which is deductible from your first order.

Tigercub Full Disk Collections, reduced to \$5 postpaid. Each of these contains either 5 or 6 of my regular catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!

TIGERCUB'S BEST, PROGRAMMING TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION GAMES, REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCAB-

ULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

NUTS & BOLTS DISKS

These are full disks of 100 or more utility subprograms in MERGE format, which you can merge into your own programs and use, almost like having another hundred CALLS available in Extended Basic. Each is accompanied by printed documentation giving an example of the use of each. NUTS & BOLTS (No. 1) has 100 subprograms, a tutorial on using them, and 5 pp. documentation. NUTS & BOLTS No. 2 has 108 subprograms, 10 pp of documentation. NUTS & BOLTS #3 has 140 subprograms and 11 pp. of documentation. NOW JUST \$15 EACH, POSTPAID.

TIPS FROM THE TIGERCUB

These are full disks which contain the programs and routines from the Tips from the Tigercub newsletters, in ready-to-run program format, plus text files of tips and instructions.

TIPS (Vol. 1) contains 50 original programs and files from Tips newsletters No. 1 through No. 14. TIPS VOL. 2 contains over 60 programs and files from Nos. 15 thru 24. TIPS VOL. 3 has another 62 from Nos. 25 through 32. TIPS VOL. 4 has 48 more from issues No. 33 through 41. NOW JUST \$10 EACH, POSTPAID.

\$ NOW READY \$
\$ TIPS FROM TIGERCUB VOL.5 \$
\$ Another 49 programs and \$
\$ files from issues No. 42 \$
\$ through 50. Also \$10 ppd \$

TIGERCUB CARE DISKS #1, #2, #3 and #4. Full disks of text files (printer required). No. 1 contains the Tips newsletters #42 thru #45, etc. Nos. 2 and 3 have articles mostly on Extended Basic

programming. No. 4 contains Tips newsletters Nos. 46-52. These were prepared for user group newsletter editors but are available to anyone else for \$5 each postpaid.

This one should come in handy for bowling league captains and Little League coaches.

```
100 DIM M(29,29),T$(30)
110 GOTO 130
120 M;Q$;J;I;X;P$;S$;K
130 !@P-
140 DISPLAY AT(3,7)ERASE ALL
: "LEAGUE SCHEDULER":; "by th
e Burwells          adapt
ed by Tigercub"
150 DISPLAY AT(8,1): " This p
rogram sets up a": "schedule
for up to 30 teams": "so that
each plays each": "other onc
e and only once."
160 DISPLAY AT(12,1): " If an
odd number of teams": "are s
cheduled, each gets one": "by
e."
170 DISPLAY AT(16,1): "Number
of teams?" : ACCEPT AT(16,
18)VALIDATE(DIGIT):M : IF N
>30 THEN DISPLAY AT(18,1): "L
IMIT OF 30!" : GOTO 170
180 DISPLAY AT(18,1)ERASE AL
L: "Schedule teams by name? Y
" : ACCEPT AT(18,25)SIZE(-1
)VALIDATE("YN"):Q$ : IF Q$=
"N" THEN 200
190 FOR J=1 TO M : DISPLAY
AT(20,1): "Team no.":J;"name?
" : ACCEPT AT(22,1):T$(J):
NEXT J : GOTO 210
200 FOR J=1 TO M : T$(J)="T
eam No. "&STR$(J): NEXT J
210 IF N/2(>)INT(N/2)THEN N=N
+1 : T$(N)="bye"
220 DISPLAY AT(23,1): "Schedu
le by day, week, month": "or
what?" : ACCEPT AT(24,10):S
$ : FOR J=1 TO N-1 : M(I,J
)=J+1
230 NEXT J : FOR J=1 TO N-1
STEP 2 : GOSUB 260
240 NEXT J : FOR J=2 TO N-2
STEP 2 : GOSUB 330
250 NEXT J : GOSUB 390 : S
TOP
260 FOR I=1 TO N-2 : IF M(I
,J)=N THEN 280
```

```
270 M(I+1,J)=M(I,J)+1 : GUT
O 290
280 M(I+1,J)=M(I,J): GOTO 3
00
290 NEXT I
300 X=X+1 : FOR I=X TO N-2
: M(I+1,J)=M(I,J)-1
310 NEXT I
320 RETURN
330 FOR I=1 TO N-2 : IF M(I
,J)=2 THEN 350
340 M(I+1,J)=M(I,J)-1 : GUT
O 360
350 M(I+1,J)=M(I,J): GOTO 3
70
360 NEXT I
370 X=X+1 : FOR I=X TO N-2
: M(I+1,J)=M(I,J)+1
380 NEXT I : RETURN
390 DISPLAY AT(12,1)ERASE AL
L: "Output to - 2":; " (1) Sc
reen": " (2) Printer" : ACCE
PT AT(12,13)SIZE(-1)VALIDATE
("12"):K : IF K=1 THEN 440
400 DISPLAY AT(18,1): "Printe
r? PID" : ACCEPT AT(18,10)S
IZE(-18):P$ : OPEN #1:P$ :
PRINT #1: "LEAGUE SCHEDULE":
: : FOR I=1 TO N-1 : PRIM
T #1:S$;" ";I : PRINT #1:T
$(I); " vs ";T$(M(I,1))
410 FOR J=2 TO N-2 STEP 2 :
PRINT #1:T$(M(I,J)); " vs ";
T$(M(I,J+1))
420 NEXT J : PRINT #1:" :
430 NEXT I : RETURN
440 FOR I=1 TO N-1 : PRINT
TAB(7); "LEAGUE SCHEDULE":
: : PRINT "WEEK ";I : : PR
INT T$(I); " vs ";T$(M(I,1)):
: FOR J=2 TO N-2 STEP 2 : P
RINT T$(M(I,J)); " vs ";T$(M(
I,J+1))
450 NEXT J : PRINT " : :
PRINT "PRESS ANY KEY FOR ME
XT WEEK"
460 CALL KEY(0,K,S): IF S=0
THEN 460
470 CALL CLEAR
480 NEXT I : RETURN : END
```

Some folks seem to think that the subprograms on my Nuts & Bolts disks are just flashy screen displays. Not so! This one will be on the next diskfull, if I ever get it full, which is most unlikely. ACCEPT AT with a negative

size is useful to accept a default string from the screen, but the length of the string is limited to 28 characters; and if you want something other than the default, you must be sure to delete any extra characters. CALL DEFAULT(R,C,M,R), where R and C are the row and column to accept at, M is the default string which can be up to 254 characters long, and R is the string accepted, will display the default string, accept it if Enter is pressed, or accept any other string without having to blank out the extra characters. Just don't type too fast!

```
100 M="TESTING" :: CALL CLEAR
110 CALL DEFAULT(12,1,M,R)
:: DISPLAY AT(24,1):R :: GO TO 110
10000 SUB DEFAULT(R,C,M,R)
:: R="" :: I=ASC(M)
10001 DISPLAY AT(R,C):M
10002 CALL HCHAR(R,C+2,ASC(SEE(M,1,1))):: CALL HCHAR(R,C+2,30)
10003 CALL KEY(O,K,S):: IF S=0 THEN 10002 ELSE IF K=13 THEN R=M :: SUBEXIT ELSE DISPLAY AT(R,C):CHR(K):: ACCEPT AT(R,C+1):R :: R=CHR(K)&R
10004 SUBEND
```

CALL DEFAULT(R,C,N,RN), with N as the default value and RN as the value accepted, will do the same for numeric input, and will reject any non-numeric input. Errors due to fast typing can be prevented by omitting the DISPLAY AT(R,C):CHR(K) in line 1002.

```
100 N=176453.897 :: CALL CLEAR
110 CALL DEFAULTN(12,1,N,RN)
:: DISPLAY AT(24,1):RN :: GO TO 9999
10000 SUB DEFAULTN(R,C,N,RN)
:: DISPLAY AT(R,C):N :: N=S E$(STR(N),1,1)
```

```
10001 CALL HCHAR(R,C+2,ASC(N
$)):: CALL HCHAR(R,C+2,30)
10002 CALL KEY(O,K,S):: IF S
=0 THEN 10001 ELSE IF K=13 T
HEN R=N :: SUBEXIT ELSE DIS
PLAY AT(R,C):CHR(K):: ACCEP
T AT(R,C+1):R :: R=CHR(K)
&R
10003 ON ERROR 10004 :: RN=V
AL(R):: GOTO 10005
10004 CALL SOUND(200,110,5,-
4,5):: DISPLAY AT(R,C):N ::
ON ERROR STOP :: RETURN 1000
2
10005 SUBEND
```

Ed Nachonis discovered an easy way to count the words in a TI-Writer file, using TI-Writer itself. Just put in a line before line 0001, with .LM 0;RM 1;FI;PL nnn with nnn being the sector length of the file multiplied by 40. Save it, go into the Foreatter and print it to disk under a different filename. Return to Editor, load the resulting file, page through it with FCTN 4 counting any blank lines, subtract the number of blanks from the last line number, and that's it! The Foreatter takes about one minute to count 1000 words. If the resulting file is very large, you may have to load it in two sections.

```
100 M="POS WILL FIND THE FI
RST OCCURRENCE OF A SUBSTRIN
G WITHIN A STRING BUT I OFTE
N NEED TO FIND THE LAST OCCU
RRENCE SO I WROTE THIS SUBPR
OGRAM"
105 INPUT "SUBSTRING?":L
110 CALL LAST(M,L,P):: IF
P=0 THEN PRINT "NOT FOUND"
:: GOTO 105 ELSE PRINT SE$(M
,P,255):: GOTO 105
120 SUB LAST(M,L,P):: X=1
130 Y=POS(M,L,X):: IF Y=0
THEN P=0 :: SUBEXIT ELSE Z=Y
140 X=Y+1 :: Y=POS(M,L,X)
:: IF Y=0 THEN P=Z :: SUBEXIT
ELSE Z=Y :: GOTO 140
150 SUBEND
```

Here's a new way to make music. The algorithm in 110 sets up a 3-octave chromatic scale - note the N(1)=F, I have erroneously omitted it when I previously published that algorithm.

To change the key of the music you have programmed, just change the value of F. Lines 190-220 contain the part of the music that is repeated within the melody. A is the subscript of the melody note, B is the subscript number of the chord. These must be above 13, as the frequency is divided by 2 in the subroutine. Each beat of the music has a 60SUB, to 230 to play a bass accompaniment with the first note of each bar, to 260 for the other notes of the bar. The chord note is divided by different values to play the three notes of the chord in succession, and multiplied by 3.75 in the 3rd voice to produce a bass note two octaves lower in the -4 noise. The melody note is multiplied by 1.01 in the second voice to give a richer tone.

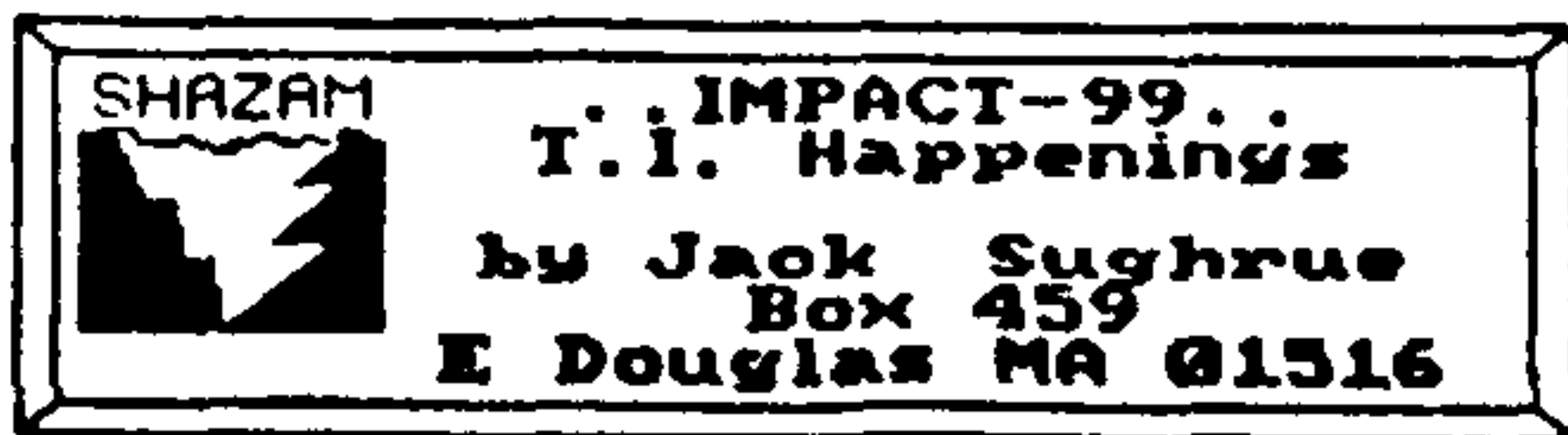
```
100 DISPLAY AT(12,3)ERASE AL
L:"THE MADRI FAREWELL SONG"
! programmed by
Jim Peterson
110 F=110 :: DIM N(36):: FOR
J=1 TO 36 :: N(J)=INT(F*1.0
59463094^(J-1)):: NEXT J ::
N(1)=F :: T=-999
120 60SUB 190 :: A=30 :: B=2
3 :: 60SUB 230 :: 60SUB 260
:: 60SUB 260 :: A=32 :: B=28
:: 60SUB 230 :: 60SUB 260
:: 60SUB 260 :: A=28
130 60SUB 230 :: 60SUB 260
:: 60SUB 260 :: A=30 :: B=23
:: 60SUB 230 :: 60SUB 260 ::
A=28 :: 60SUB 260 :: A=27
:: 60SUB 230 :: 60SUB 260
140 A=28 :: 60SUB 260 :: A=3
0 :: 60SUB 230 :: 60SUB 260
:: 60SUB 260 :: 60SUB 230 ::
60SUB 260 :: 60SUB 260 :: 6
0SUB 190
150 A=30 :: B=23 :: 60SUB 23
0 :: 60SUB 260 :: 60SUB 260
```

```
:: A=32 :: B=16 :: 60SUB 230
:: 60SUB 260 :: A=28 :: 60S
UB 260
160 A=33 :: B=23 :: 60SUB 23
0 :: 60SUB 260 :: A=32 :: 60
SUB 260 :: A=25 :: B=13 :: 6
0SUB 230 :: 60SUB 260 :: 60S
UB 260
170 A=27 :: B=23 :: 60SUB 23
0 :: 60SUB 260 :: 60SUB 260
:: A=28 :: B=16 :: 60SUB 230
:: 60SUB 260 :: 60SUB 260
180 B=28 :: 60SUB 230 :: 60S
UB 260 :: 60SUB 260 :: B=16
:: 60SUB 230 :: 60SUB 260 ::
60SUB 260 :: GOTO 120
190 A=32 :: B=28 :: 60SUB 23
0 :: 60SUB 260 :: 60SUB 260
:: A=28 :: B=16 :: 60SUB 230
:: 60SUB 260 :: A=30 :: 60S
UB 260
200 A=32 :: B=28 :: 60SUB 23
0 :: 60SUB 260 :: 60SUB 260
:: B=16 :: 60SUB 230 :: 60SU
B 260 :: 60SUB 260 :: B=28
:: 60SUB 230 :: 60SUB 260
210 A=30 :: 60SUB 260 :: A=3
3 :: B=23 :: 60SUB 230 :: 60
SUB 260 :: A=27 :: 60SUB 260
:: A=28 :: B=16 :: 60SUB 23
0 :: 60SUB 260 :: 60SUB 260
220 B=28 :: 60SUB 230 :: 60S
UB 260 :: 60SUB 260 :: B=16
:: 60SUB 230 :: 60SUB 260 ::
60SUB 260 :: RETURN
230 CALL SOUND(T,N(A),5,N(B)
/1.585,9,N(B)*3.75,30,-4,9):
:: 60SUB 290
240 CALL SOUND(T,N(A),5,N(B)
/1.334,9,N(B)*3.75,30,-4,9):
:: 60SUB 290
250 CALL SOUND(T,N(A),5,N(B)
/2,9,N(B)*3.75,30,-4,9):: 60
SUB 290 :: RETURN
260 CALL SOUND(T,N(A),5,N(A)
*1.01,5,N(B)/1.585,9):: 60SU
B 290
270 CALL SOUND(T,N(A),5,N(A)
*1.01,5,N(B)/1.334,9):: 60SU
B 290
280 CALL SOUND(T,N(A),5,N(A)
*1.01,5,N(B)/2,9)
290 FOR D=1 TO 20 :: NEXT D
:: RETURN
```

MEMORY FULL.....

Jim Peterson





A NEW USER GROUP?

Every time I read in some newsletter or other that our TI World Community is dead, I think of Mark Twain's comment when he read about his supposed demise: "I think the reports about my death have been greatly exaggerated."

So it is with our passed-away TI. I know I use it for word processing about 35 hours a week and for games and examination of new programs and doing practical stuff with utilities - in that order - for another 15 or 20, so I feel that the "death" announcements of my 4A may be a bit premature.

Most of my TI friends would say the same, particularly as there are two new magazines in our marketplace to go along with the wonderful MICROpendium. And there are new pieces of software coming out - it seems - almost daily from all over the world. (I have on my desk exactly 34 disks in a shoebox marked "To Look At!" They are disks filled with Public Domain and Fairware materials of all sorts. I have another entitled "Stuff for School" which has 13 disks. And another of commercial disks I've bought during the past two months with 11 packages of disk unopened. In short, I have too much new stuff to even get to LOOKING at it, at this point in my life.) And there is new hardware coming out everywhere: P-Boxes from Canada and Australia, Granulator that does all GranCracker did and much more, harddisks, computers on a card, very advanced keyboards, and more, more, more.

Does this sound like a dead computer?

And newly-formed user groups are making an appearance here and there, while some long-established groups are joining forces to make megagroups (for reduced costs [housing, newsletters, etc.] and greater buying and sharing power, among other things).

Among the newly-formed groups is one that I think the TI World Community should be aware of: Oakland Computer Club which meets at Atwood-Tapley School in Oakland, Maine. What makes this club unique is that it is made up of all kids from kindergarten through grade 6. The club recently earned statewide recognition for the innovative ways computers were used in the school.

Eunice Spooner, an indefatigable volunteer at the school, a member of the school committee, and a former elementary school teacher, received the award this spring from the Technology in Maine Schools Committee for her work with these youngsters in the school environment, particularly (according to a newspaper account of the

event) because the club has "achieved a significant success in reaching children... and being so much for their self esteem."

What makes this award unusual is that it is for efforts done on the TI/994A.

What makes this more unusual and a remarkable story in its own right is the fact that Eunice Spooner is a quadriplegic.

This unusual woman broke her neck in a car accident in 1982 and, as she said to me on the phone, "had a choice of giving up or getting on with it." That she chose the latter is unquestioned.

In addition to founding and operating this new computer club of 30 members (more than many TI clubs in the New England area), she teaches 11 TI computer classes in the school each week with six students in each class across the whole elementary level, including special needs students.

When the 4As came down in price and many people gave up on them, Ms. Spooner saw a golden opportunity to use "these great computers with the students." She immediately began to put out an all-call for any consoles, TVs, tape recorders that could be gotten. The school now has three of its own consoles, but some of the 30 club members also share their personal computers with the school.

With Mrs. Spooner in the classrooms, the students under her charge learn BASIC programming and have written many of their own programs.

The Oakland Club, however, is strictly voluntary and meets every Monday night. Maurice Anderson, a teacher in Oakland, assists Mrs. Spooner, makes arrangements for field trips, and works with the more experienced youth. Mrs. Spooner works with the younger children. "It's interesting to see how many parents stay for these meetings and get caught up in the computer activities of their children," she says.

The club has begun to slowly create a library of their own written programs and modules of educational programs and games. These materials are demonstrated at the Monday meetings (with particular emphasis on student-written works) and may be checked out later and worked with or played at home.

"Right now the club is looking for more consoles. We'd love to find some that are no longer being used, as it would permit us, obviously, to do a lot more for more youngsters."

The club could also use any TI educational programs or materials of any kind for these children. Although their software consists mainly of tapes and modules, they do have one disk drive system, too, so all you readers who have extensive libraries or materials you have grown out of or haven't used in years might consider packing it up and mailing it to Eunice Spooner, Box 3720, Webb Road, Waterville, ME 04901. It would be a good investment in the future of a lot of kids.

These junior TIers, themselves, are very interested

in finding some other kids to correspond with. The group would love to see newsletters and basic-type programs from anyone.

Oh, one more thing regarding the remarkable Mrs. Spooner. She's a sysop on her own board. Credit system; upload first, Northeaster BBS - 207 465 9065 - log on, TI programs, author uploads. Give her a call.

HELPFUL HINTS

Many readers send in lots of questions I try to answer in the Helpful Hints section of this column.

One question which comes up again and again is "Do you know of a good cribbage game?" I don't know of any, other than Corey Cheng's wonderful intelligent but INCREDIBLY SLOW Cribbage Game. It needs a good assembler (or compiler) to make this game worth it for most players. There must be a LARGE market for such a game, if the request I get for such info are any inkling. (Programmers, are you listening?)

The next batch of questions recur so often I am going to deal with them all at once. I hope the companies and groups and people I left out will not be offended, but these are my honest answers.

RECOMMENDATIONS: I'm often asked what are the best sources of materials and services and information for our TI-99/4A. For me, the following are the very best:

MICROpendium is the MAGAZINE for TI owners. Except for newsletters, no other periodical is ENTIRELY devoted to our computer. The (usually) 48-page monthly magazine cost \$20 per year. MICROpendium, PO Box 1343, Round Rock, TX 78680.

ASGARD Software is one of the oldest SOFTWARE COMPANIES around and one of the best developers of innovative TI programs in the world. It supports TI owners with tapes, disks, books, and a new magazine. Free catalog and information: ASGARD Software, PO Box 10306, Rockville, MD 20850.

TIGERCUB Software is not just for programmers. Jim Peterson has some of the best single programs and collections of XB stuff for adults and kids. His TIPS and his NUT'n BOLTS for beginner or technic programmers is, simply, extraordinary. \$1 for catalog (returned with first order) to TIGERCUB Software, 156 Collingwood Ave., Columbus, OH 43213.

GENIAL TRAVELER puts out a DISKAZINE six times a year. These jam-packed disks have EVERYTHING (and Barry

Traver always throws in additional bonus disks). Each disk contains about four month's supply of goodies. For what you get, \$36 a year is a steal. Ask for the entire first volume, if you don't yet have it. Two-year subscription only \$65. GENIAL TRAVELER, 835 Green Valley Drive, Philadelphia, PA 19128.

BITS, BYTES & PIXELS is the unique newsletter put out by the Lima, Ohio, 99ers. This USER GROUP is, in my mind, the very best you could ever join by mail. And it is only \$15 a year including subscription. In addition, they have one of the biggest (and free) disk and tape libraries in America. This group is exceptional.

SISTER PAT TAYLOR, 1050 Carmel Drive #456, Dubuque, Iowa 52001 is a novice Tler who is rapidly becoming an expert. She also is a prolific letter-writer. So, if you'd just like to write to another 99er freak, she's the one. Her friendliness and enthusiasm (for our 4A) are contagious.

GOOD SAMARITAN CORNER. In summary, a brand-new user group has just been formed in Maine. Except for its leader, Eunice B. Spooner, and her helpers, all the members are kids. They could use some kid's stuff, educational stuff, any stuff. Preferably on tape, but any configuration to DSSD would be great. If you have anything you could help start this library, mail to Eunice B. Spooner, RFD #1, Box 3720, Webb Road, Waterville, ME 04901.

MY OWN SYSTEM contains a Myarc 512 Card (with RAM and spooler - and I LOVE it!), a Myarc Controller, a Hitachi color monitor, two full-height Tandem DSDD drives, two TI tape recorders, a Gemini 10X printer, XB, E/A, a 32K Supercart, a load interrupt switch, a speech synthesizer, and a very heavy duty ISO surge/spike outlet set. No Gramcracker [Miller left TI before I could order one.] No Navarone widget [My pinky couldn't take the anti-touch typist device, so I sold it.] This is what I use every day. I also have a system at work with a 32 sidecar, Minimax for a wordpro, and tape recorders, so I can do all the wordprocessing I want at work and take it home to dump it through my FUNNELWEB. I also have a Geneve with a TI Controller and one Tandem DSDD full-height drive and the old TI monitor.

PLUS! is the only fairware stuff I have. Everything else I do is Public Domain and is in most user-group libraries and is not worth owning. But I thank all those people who have asked. And, yes, I am a teacher and a writer and, no, I do not own a pair of Mickey Mouse andirons.

GETTING THE MOST FROM YOUR CASSETTE SYSTEM
BY MICKEY SCHMITT
NUMBER 10
UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES
PART II

UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES IS NOT QUITE AS DIFFICULT AS IT MAY SEEM. UNFORTUNATELY, TRYING TO FIND A LIST OF THE ERROR CODES AND MESSAGES THAT DEAL SPECIFICALLY WITH THE CASSETTE RECORDER HAS BEEN A DIFFICULT TASK! IN DOING MY RESEARCH FOR THIS PARTICULAR ARTICLE, I HAVE HAD TO COMBINE MANY DIFFERENT SOURCES OF INFORMATION - IN ORDER TO BE AS INFORMATIVE AND AS COMPLETE AS POSSIBLE.

BASICALLY, CASSETTE ERROR CODES AND MESSAGES CAN OCCUR DURING ONE OF TWO DIFFERENT TYPES OF COMMANDS. MORE SPECIFICALLY, I AM REFERRING TO THE "LOADING" (OLD CS1) PROCEDURE AND THE "SAVING" (SAVE CS1) PROCEDURE.

THIS MONTH I WILL BE EXAMINING THE ERROR CODES AND MESSAGES THAT CAN OCCUR DURING THE "SAVING" (SAVE CS1) PROCEDURE.

WHEN THE CASSETTE RECORDER FINISHES SAVING YOUR PROGRAM - THE COMPUTER WILL TELL YOU WHETHER OR NOT THE PROGRAM WAS RECORDED SUCCESSFULLY. IF THE PROGRAM WAS RECORDED SUCCESSFULLY, YOU WOULD SEE THE FOLLOWING MESSAGE APPEAR ON YOUR MONITOR OR TV SCREEN - AFTER YOU COMPLETED THE NECESSARY STEPS IN THE "CHECKING" PROCEDURE:

* DATA OK
* PRESS CASSETTE STOP CS1
THEN PRESS ENTER

IF, HOWEVER, THE CASSETTE RECORDER DID NOT SUCCESSFULLY RECORD YOUR PROGRAM ONTO THE CASSETTE TAPE, AN ERROR OCCURS AND THE COMPUTER PRINTS ONE OF THE FOLLOWING MESSAGES:

* ERROR - NO DATA FOUND	* ERROR IN DATA DETECTED
PRESS R TO RECORD CS1	PRESS R TO RECORD CS1
PRESS C TO CHECK	PRESS C TO CHECK
PRESS E TO EXIT	PRESS E TO EXIT

WHEN THIS OCCURS - YOU HAVE A CHOICE OF USING ONE OF THE FOLLOWING THREE OPTIONS: NOTE, HOWEVER, THAT THE SINGLE-LETTER RESPONSES (R - C - E) THAT YOU TYPE IN AT THIS TIME MUST BE IN UPPER-CASE CHARACTERS!

1. PRESS R TO REPEAT THE RECORDING PROCEDURE. HOWEVER, BEFORE REPEATING THIS PROCEDURE, CHECK TO MAKE SURE THAT YOU HAVE PUT THE CASSETTE TAPE IN CORRECTLY - AND THAT THERE IS ENOUGH BLANK TAPE LEFT ON THE CASSETTE TAPE IN WHICH TO RECORD THE PROGRAM ON. THEN FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN.
2. PRESS C TO CHECK THE DATA YOU HAVE READ INTO MEMORY. AT THIS POINT YOU MAY WISH TO ADJUST YOUR CASSETTE RECORDER'S VOLUME CONTROL AND TONE SETTING. THEN FOLLOW THE DIRECTIONS AS THEY APPEAR ON YOUR MONITOR OR TV SCREEN.
3. PRESS E TO EXIT FROM THE SAVING PROCEDURE. AT THIS TIME ANOTHER ERROR MESSAGE IS DISPLAYED, INDICATING THAT THE CASSETTE RECORDER DID NOT PROPERLY SAVE YOUR PROGRAM ONTO THE CASSETTE TAPE.

* WARNING:
CHECK PROGRAM IN MEMORY
* I/O ERROR 66

IF I/O ERROR 66 APPEARS, SOMETHING DEFINITELY WENT WRONG. BUT DON'T PANIC! GENERALLY SPEAKING, WHEN THE ERROR MESSAGE "ERROR - NO DATA FOUND" OCCURS - THE COMPUTER DID NOT RECOGNIZE THE CASSETTE RECORDER AT ALL DURING THE "SAVE "SAVE CS1" ROUTINE. ON THE OTHER HAND - WHEN THE ERROR MESSAGE "ERROR IN DATA DETECTED" OCCURS - THE COMPUTER RECOGNIZED ONLY PART OF THE DATA THAT THE CASSETTE RECORDER WAS SENDING TO THE COMPUTER. WHEN THIS HAPPENS, RECHECK YOUR CASSETTE RECORDER'S VOLUME CONTROL AND TONE SETTING. THEN RECHECK YOUR CASSETTE CABLE. MAKE SURE THAT BOTH ENDS OF THE CABLE ARE ATTACHED TO THE COMPUTER AND TO THE CASSETTE RECORDER. WHILE YOU ARE AT IT - MAKE SURE THAT

THE COLOR-CODED WIRES LEADING TO THE CASSETTE RECORDER ARE CONNECTED CORRECTLY. THE CASSETTE RECORDER WILL NOT OPERATE PROPERLY IF THE COLOR-CODED WIRES ARE REVERSED!

NEXT MONTH I WILL CONTINUE WITH THE TOPIC OF UNDERSTANDING CASSETTE ERROR CODES AND MESSAGES. MORE SPECIFICALLY I WILL BE GIVING YOU A GENERAL LIST OF AREAS THAT SHOULD BE CHECKED WHEN CASSETTE ERROR CODES AND MESSAGES APPEAR.

IF YOU NEED ANY HELP UNDERSTANDING THE CASSETTE ERROR CODES AND MESSAGES OR ARE EXPERIENCING CASSETTE ERRORS - JUST GIVE ME A CALL (412-335-0163) AND I'LL TRY TO HELP.

C.O.N.N.I. BUSINESS MEETING
MARTIN JANIS SENIOR CITIZENS
CENTER
SATURDAY, SEPTEMBER 10, 1988

MEETING OPENED 10:00AM - ADJOURNED AT 10:45 AM

Meeting was called to order by President Dick Beery, who introduced the officers and librarian, also one new member, Patrick Quinn.

A presentation was given to the club by Jean Hierman of Safety Plus on Halon Fire Equipment for home use and its affect on computers. This demonstration was well received by all.

The treasurer's report was read by John Cummings and was approved as read

Plans were discussed for the October meeting in respect to contacting past members, demos, publications, etc.

Announcements: Jean Hall had Keyboard strips and Harry Brashear's TI-Writer booklets plus a new fairware disk to appear in the near future. President Dick Beery made a motion for the club to have a table at the Chicago Faire, motion was approved.

Fall classes were announced as follows: Extended Basic - Jim Peterson; TI-Writer - Jean Hall; TI-Artist - Ken Marshall; Assembly Language - Karl Romstedt; and Multiplan - Fred Teitzel.

Raffle and demos followed the meeting.

Respectfully Submitted,
Jere Singleton, Secretary



C.O.N.N.I. MEETING
WEDNESDAY, AUGUST 24, 1988
McDONALD'S #2, WESTERVILLE, OH

7:30 - 8:15 PM Questions and Answers

8:15 - 8:50 PM Business meeting

Sonny Grubb gave a very good demonstration of the P-CODE Card and Pascal/Turbo Pascal.

\$15.00 was collected from the raffle. Ken Marshall and Jack Montag won and selected a packet of User Group newsletters and a book of TI games.

John Parkins showed some Video highlights of the Lima User Group May 1988 Conference. Jack Sughrue and his PLUS! disk and Paul Wheeler and the TI and home controls.

September demonstrations will be Data Base I by Jean Hall and another demo to be announced later.

Respectfully Submitted
Jere Singleton, Secretary



C. O. N. N. I.

C L U B



CENTRAL OHIO NINETY-NINER INC.

6TH ANNIVERSARY

GUESTS AND FORMER MEMBERS INVITED



FEATURING

TI-99/4A HOME COMPUTER

GENEVE 9640 MYARC



HARDWARE DEMOS:

HARD DISK CONTROLLER

RAMDISKS

ETC.

SOFTWARE DEMOS:

GRAPHICS

MUSIC

GAMES

UTILITIES

AND

MORE



DATE: October 8, 1988

TIME: 9 AM to 12 NOON

LOCATION: Ohio State Fair Grounds
Martin Janis Senior Center
E. 11TH AVENUE

CONTACT: Dick Beery 614-4593597 INFORMATION

T. I. WRITER Part 11

by STAN KATZMAN

(Ed. note: Thanks to Stan Katzman and the West Penn 99'ers Club).

This part will deal with headers, footers, begin a page and include a file.

Let's start with headers. If we want to number a page and every page sequentially, what we do is type the following at the beginning of your document .HE %<ENTER>. What this will do is number each page of a multi-page document sequentially putting the number in the upper left hand corner. If you want the number elsewhere at the top of the paper, type .HE ^^^^^^^^^^^^^^^^^^%<ENTER> and the carets (required space symbols) will put the number of the page the same number of spaces to the right of the left margin as you have carets.

If you want to have a header on the top of each page that is of the same type and says something then type .HE Hello<ENTER>. Then at the top of each page at the upper left will be the word "Hello". (Of course you could use any

statement you want). You can also "mix them up". Type .HE Hello page%<ENTER>. (By the way the % sign here means to number sequentially). And at the top of each page will be "Hello page 1", "Hello page 2" etc. To turn off the header just enter on a separate line .HE<ENTER>. This will turn off the header.

We can also number at the bottom of a page if we want. Type at the start of your document >FO %<ENTER> and the numbering will be on the bottom left hand corner. If we type .FO ^^^^^^^%<ENTER> the number will be moved to the right depending on the number of carets, just like a header. .FO Hello<ENTER> will print "Hello" on the bottom left of each page.

To make the printer start a new sheet of paper you have two options in the Formatter, the new page entry in the Editor (Control 9) will work both in the Text Editor and the Formatter. For the Formatter you could also type, on a line of its own, .BP<ENTER> and this will cause the printer to stop printing on that page and go to a new page.

The last command I want to discuss is a very powerful command, Include File. If you have a very large document - too large for your memory, like a book, just make each chapter a separate file to disk with names like CHAP1, CHAP2, CHAP3, etc. Then make another master document that has all the Formatting commands for page length, margins, headers, and each chapter listed in an Include File (.IF) command like so .PL 60<ENTER> .RM 70<ENTER> .LM 10<ENTER> .FI<ENTER> .AD<ENTER> .HE ^^^^^^^^^^^^^^^^^^%<ENTER> .IF DSK2.CHAP1<ENTER> .IF DSK2.CHAP2<ENTER> etc. The beauty of this is you do not have to give any Formatting commands with each document, it is done with the master document which is the only document that is called when the file name is called for in the Formatter. The entire document will be printed out, Formatted and in the sequence asked for in the master file. You are only limited by the number of disks that you have. Is that not powerful and terrific!



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**MEETING DATES
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1988-1989**

C.O.N.N.I. BOARD MEMBERS

2ND SATURDAY

08 OCT 1988
12 NOV 1988
10 DEC 1988
14 JAN 1989
11 FEB 1989
11 MAR 1989
08 APR 1989
13 MAY 1989
10 JUN 1989
08 JUL 1989
12 AUG 1989
10 SEP 1989

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Cassette - Sonny Grubb
Cartridges - John Rupert
Newsletter Exchange - Curt Borders
TIBBS - Irwin Hott (614) 263-5319
Dick Beery (614) 459-3597
Editor - Jean Hall (614) 885-4223
Assist - Carol Parkins (614) 891-4965

4TH WEDNESDAY

08 OCT 1988
12 NOV 1988
28 DEC 1988
25 JAN 1989
22 FEB 1989
22 MAR 1989



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HOW LONG HAVE YOU OWNED YOUR COMPUTER? _____
DATE OF APPLICATION _____ ACCEPTED BY _____