

(064)
5811

PUBLISHED TEN TIMES A YEAR
BY CHANNEL 99 USERS GROUP,
HAMILTON, ONTARIO, CANADA.

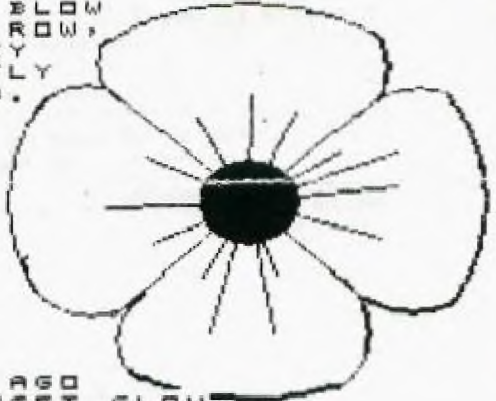
TI-99/4A

MYARC GENEVE

NOVEMBER, 1988

REMEMBRANCE DAY

IN FLANDERS FIELDS THE POPPIES BLOW
BETWEEN THE CROSSES, ROW ON ROW,
THE LARKS, OUR LIPS AND IN THE SKY
SCARCELY HEARD AMID THE GUNS BELOW.



WE ARE THE DEAD. SHORT DAYS AGO
WE LIVED, FELT DAWN, SAW SUNSET GLOW
LOVED AND WERE LOVED, AND NOW WE LIE
IN FLANDERS FIELDS.

TAKE UP OUR GUNNEL WITH THE FOES;
TO YOU, FROM FAILING HANDS WE THROW
THE TORCH; WE YOUNGERS HOLD IT HIGH.
IF YE BREAK THE FAITH WITH US WHO DIE
WE SHALL NOT SLEEP, THOUGH POPPIES GROW
IN FLANDERS FIELDS.

JOHN McCRAE

LEST WE FORGET

CHANNEL 99 EXECUTIVE

- Tom Arnold - President and Treasurer.....(416)385-5576
- Tor Hansen - Vice President and Librarian..(416)279-0437
- Wayne Anderson - COPOLA.....(519)632-7329
- Richard Lilley - Newsletter Exchanges.....(416)336-7461
- Glenn Watson - Faireware Co-ordinator.....(416)844-9180
- Ed Moriarty - Enquiries.....(416)632-7039
- John Van Weelie - Disk of the Month.....(519)623-8218
- Bruce Bray -(416)639-6542
- Laura Blowey(416)689-8649

Mailing Address - 656 Meadow Lane, Burlington, Ontario L7L4R8
Newsletter Exchanges - 77 Lavina Cres. Hamilton Ontario L9C5S8

By Tor Hansen

Here I was, all set to take care of the October session at the Spectator, and in walks Tom Arnold.

"Sorry, Tor." He says. "I decided not to go on vacation, so I'll take it from here."

And thus commenced the October meeting.

Thirty four people made it to hear the opening remarks, and we had five full systems at the session, all doing different things.

Most of Tom's comments were aimed at trying to get volunteers to help out with the executive committee, and after two years of trying to push this myself through this column and others, all I can say at this point is, help if you can, otherwise, don't complain about what you get.

It's the best we can do.

See you next month.

CLUB NEWS

By Tor Hansen

In a month more typical of the summertime, there was actually very little to report on the Club front.

Clint had the current updates to his 'c' Compiler, which recieved some minor distribution at the session.

A couple of new TI'ers showed up again at this session, and volunteered their help for the executive, for which I extend my thanks.

More help like this would make the sessions better for everyone.

No one seems to be working on much, at least that they're talking about, so I don't have alot to fill this with.

Maybe there will be more next month.

See you then.

EXECUTIVE COMMENTS

By Tor Hansen

The executive sessions are getting to be more like newsletter editing bouts than anything else.

But that may change soon, as there have been a couple of new volunteers for the executive committee. Hopefully some new blood will inject some new ideas for us to pursue for the group.

Speaking of new blood, don't forget that December is election month for your executive for 1989. Please plan to show up and participate.

Before your executive bows out for this year (or bows in again next year), there are still decisions to be made regarding the ways and means of handling the newsletter and club affairs for 1989. Some of this will be covered at the next meeting (tomorrow, as I write this).

I'll have more on that session next issue.

Well, not too much more to report at this time, so we'll see what develops next month.

by John Van Weelie
Channel 99 - Member

This month's disk is a two SSSD disk set. The first disk is the program disk and the second disk includes the documentation for most of the programs on disk #1.

Included for the this month's programs are several utilities and a game or two.

Programs include:

1. Archiver III - v3.02. I would do a lot of explaining of this utility as it was reviewed in last month's club newsletter by myself.

2. Disk Catalog & Label Printer - This is a user supported program written in assembly language runs from Extended BASIC with a E/A #5 loader from XB. This program comes with extensive documentation and the program will run from both the TI-99/4A and the Myarc 9840 in either XB or E/A environments.

3. Disk Utilities - v4.1. This is a disk manager and sector editor all rolled up in one program. This program is very powerful and useful. For those who have Myarc Quad Density controllers allows quad density formatting.

4. Freddy - this is a Assembly language game which originally came from Germany. When I first came across Freddy it had German screen instructions which made it hard to understand the object of the maze game. This is the English screen instruction version. Excellent graphics. Enjoy playing Freddy.

5. Bert & Ernie with is a graphics demo with speech capabilities if speech is connected. Good old sesame street characters.

6. Tickler Notepad - This is a memo/calender/phone list type computerized scratch pad rolled into one nifty program. Calendar accommodates upto 1999. You can enter 200 notes and action dates and save each by month, etc.

Documentation is included on the second disk which can be printed through TI-Writer formatter or one of the Clone word processing programs.

Hope to be able to find some new and interesting software in Chicago. Have fun computing til next month.

1988 CLUB MEETING DATES

Friday 15 January	Friday 13 May	Friday 9 September
Friday 12 February	Friday 10 June	Friday 7 October
Friday 11 March	Friday 8 July	Friday 11 November
Friday 8 April	Friday 12 August	Friday 9 December

All meetings are held from 7 P.M. to 10 P.M.
Hamilton Spectator Building 44 Frid Street

NEWS AND VIEWS

by Tom Arnold

Well another month flies by and another newsletter deadline looms. Considering how little I have to write it seems to take forever to get around to actually doing it. I seem to be on the TI (Geneve) every night but never seem to get a lot done. Not a lot to talk about this month, I think a lot of news is being withheld until the Chicago Faire.

That's great for me because I'm going to Chicago but for you who are not then you will have to wait until I report next month. I have a few things I want to buy in Chicago the main one being the new word processor "PRESS" by Asgard Software. Apparently Charles Earl of TELCO fame has written this so it should be quite good. I will only buy if they demo it and it looks impressive. Since the price is \$59.95 US it is a lot of money unless it is a vast improvement over My-Word. If the spelling checker works as well as I have heard then it will be worth the price. Hopefullu I will be able to get away from Function 9, text, Control 2. Even my kids know that one.

Also on my list will be Print Wizard which I have talked about before and a Data Base. TI-Base has already been released and it appears very powerful. However I have heard that Genial is releasing FIRST BASE so it should be interesting to see the differences between them. I don't need two data bases, actually I'm not too sure I need one. The big problem with a data base is that you keep having to enter data into it. Very boring!

I see in the latest Micropendium that Myarc has a program under development that allows you to run several programs at the same time. It is called GEME and uses windows to allow you to jump from one program to another. I really don't know what I would do with such a program, it's not that I like to do data analysis while I compose this column. Hopefully they will include viable ideas on how to use it.

I have seen a copy of MacFlix the program from Genial Computerware that allows TI and Geneve owners to access MacIntosh graphics. This program is amazing at what it can turn out. The details of the pictues are something to behold. Hopefully a few are scattered around this issue. Most users will buy the program just so they can print out these pictures, the display is distorted to get all the picture in so it should not be bought for screen display. I'm sure most User Group libraries will soon have MacIntosh pictures in them. If you belong to the Source or Compuserve then you can download pictures from the MacIntosh SIG's of these BBS's.

Another nice program from Genial Computerware is Graphics Expander v 2.0. This program allows you to expand or shrink

fonts and small graphics. It also allows you to invert, mirror and rotate your fonts and graphics. One practical application would be to create text and pictures sideways on your page. You could also create cards by rotating one half of the picture. This program is compatible with TI Artist, CSGD and Font Writer II. If you are interested in either of these, Genial Computerware is located at P.O. Box 183, Grafton, MA 01519, U.S.A. MacFlix is \$15 and Graphics Expander is \$10. Add \$1 for postage.

You will be seeing a few articles by Jack Sughrue of East Douglas, MA who writes a column called Impact 99. I have seen Jack's articles in other newsletters so jumped at the chance to obtain back copies of the column for our newsletter. These will be used when our local talent runs out of ideas or time. Actually I'm hoping that we do not have to use Jack's column because we want to be 100% original. If you want to read what he has to say then you can do one of two things. Buy copies of his disks from us at \$2 a copy or read all the exchange newsletters we have at the meetings. Both ideas are good, the more I read about the TI the happier I am.

I am happy to say that your executive has had two new people join it. I would like to welcome Bruce Bray a long time member and Laura Blowey, our newest member. We have not given them any specific duties yet but will very soon. It's nice to have new people help out, everyone's enthusiasm wanes as the years pass. We are not having any elections this year, I feel they are a waste of time. I cannot remember an actual election in all the years we have been together. If you want to help or run for an office then volunteer and you will be automatically elected.

Are you swamped with graphic packages, companions, expanders, etc. and don't know how to put everything together to create something attractive and useful? I may have just the thing for you. I am in the process of ordering a nice package from Harry Brashear of the Western New York 99'ers. This package is an 80 page manual called HOME PUBLISHING ON THE 99/4A. This 80 page publication will tell you how to use all thoses programs that we have for the creation of pictures, banners and text. It will tell you how to distinguish between the different Instances, Fonts, Slides and how to put them together to work for you. Not only is the manual 80 pages but there will be two twenty page supplements during the coming year. In addition, you will also receive a disk of programs to help you make your documents look their best. Programs included will be a columnizer, TI-Artist instance printer, and a program to organize your fonts and graphics. I am ordering 10 packages from Harry, I already have firm orders for 4 packages. If you want one of these let me know immediately. These will not last long, cost will be \$16 CDN. Reserve your copy now.

That's all for this month, I will report on the Chicago Faire next month.

Australia

February 1987

The book entitled TI-99/4A INTERN by Heiner Martin is a most readable book. The 207 page A5 format soft cover volume barely contains 5 text pages. The rest is filled with details of the TI-99/4A's internal architecture. TI was and still is very secretive about the finer details of its products generally, and this policy also includes the 99/4A although it was abandoned years ago.

The author of this book did a splendid detective work to unravel the many unpublished details of the 99/4A. Only a few months have passed since yours truly was attempting to collate the token table of this computer the hard way. Now I found the complete token list in a coherent and orderly manner in this book, together with its associated program steps.

As I said at the start, one does not read this book, one studies certain details of interest. The publication may be compared with the telephone directory. One does not read it, yet it is an essential part of daily life.

Here are the details.

The first part covers the system ROM. A 70 page listing is provided of the console ROM from 0000 through 1FFF. The listing is augmented by extensive remarks to aid understanding.

The GPL (Graphics Programming Language) commands and command format are analyzed in a lengthy chapter. These are preceded by a short description of the language.

The Author deals with GROM 0 next.

A listing of GROM 0 - again complete with remarks - is followed by a hex dump of GROM 0 from 0000 through 17FF. Inclusion of the hex dump listing is very useful, as TI has produced several versions of GROM 0. This print out will aid comparison.

The BASIC GRAM's (GRAM1 and GRAM 2) are analyzed next. A listing of GRAM 1 & 2 is reproduced from 2000 through 57FF. The BASIC GRAM's have no known versions, thus inclusion of a hex dump printout is not necessary. This volume finishes with a short reference to

Extended Basic.

Mr. Martin admits that due to the very limited information available from the manufacturer, the accuracy of the comments can not be guaranteed. The brief and very much condensed explanatory pages are most helpful to understand the internal functions and the logic of the data management used by this computer.

Alas, this is not a book for the beginner, albeit is highly recommended for any insomniac TI-user. It will put any novice to sleep in less than 5 minutes! On the other hand it is an essential tool of the serious programmer. The publication is an original work, it does not repeat any related information already published elsewhere, thus prior study of other reference material is mandatory. The in depth study of the Editor/Assembler manual, as well as the TI Home computer Technical Data Manual prior to tackling this book is a must. In short, knowledge of the 9900 Assembler is essential.

This long overdue study is a valuable addition to the 99/4A information library.

The book is published by VTH (Verlag fuer Technik und Handwerk GmbH), Baden Baden, West Germany in 1985. ISBN number: ISBN 3-88180-009-3. Translation by Perter Coates.

Available in North America from T.A.P.E. Ltd., P. O. Box 4042, Ontario, California, U.S.A. 91761. Phone (714)989-9906

DEBUGGING

By Debugger

Yet another month passes that requires little or no input in this column. I may just hibernate for the winter, as there seems to be little else to do.

The October issue was as free of typo Gremlins as all the other recent previous issues, which means that all I can do in this column is blather on for a while, then hang up my keyboard until next month.

Great reading for you, lousy columns for me.

Oh well, you don't pick this up to read this anyway...

See you next month.



MCOPY
by Tom Arnold

MCOPY is a disk copier written by Mike Dodd for both the TI99/4A and the Geneve. It runs from just about any mode: E/A #5, Extended Basic, TI Writer, FunnelWeb, MDOS, Gram Cards, you name it. So what? We have lots of disks copiers, many of which are much faster. True, but this copier is not really a copier in the true sense of the word. Mike maybe should have called the program Disk Arranger or Disk Optimizer. That's what the program really does.

I read an article by Mike in the LA Topics in which he complains that too few people have sent donations (yes it is Fairware). The cause of this may be that few people understand what the program does. It's real purpose is to re-arrange the disk index which is on Sector one so that all the programs are listed in order. In addition the file Descriptor Records (FDR) are re-written to the front of the disk in order. This is done by copying the programs as they are listed. The disk is not copied sector by sector but program by program in alphabetical order. You could do this yourself by copying programs singly and keeping track of the order but that would be very time consuming. What you land up with is a sector #1 as shown in sample #2. Notice all the programs (as indicated by the sector numbers) are in order (the numbers tell the computer where to find the FDR's). If you look in Sample #1 which is the original disk sector #1, you will note that none of the numbers are in order. For example in the upper left hand corner the number "0002" is listed, you would expect to see "0003" beside it but it is not. Also as programs are added to the disk the File Descriptor Records (FDR) are not always placed on the front of the disk in the first bunch of sectors. The second program listed on the disk has it's FDR in sector 048B. The computer has to do a lot of searching to find this program.

What's this all mean you say? Well by placing everything in order at the front of the disk you land up with faster access time and a lot less head stepping of your disk drives. As my drives make one hell of a lot of noise I notice when this occurs when a disk with a lot of files on it is cataloged, copied, loaded, etc. The time it takes and the wear and tear on my drives is reduced greatly. This idea has been around for many years, editor of newsletters have been recommending file by file copying to achieve this optimum condition. Now Mike Dodd has made it easy for you. Don't expect great speed during the process and only do this to disks where the files have been jumbled a lot. To find out if a disk requires a run through MCOPY use DSKU to look at sector one. If the FDR's are in order you will not need to use the program, if they are not then get cracken! Thanks Mike, a nifty idea.

MULTIPLAN MADNESS
by Tom Arnold

When I last left you in the spring we had started a bank balance which used a simple formula to keep track of the balance. Simply we took the previous balance, added the income and subtracted the debits. We copied the formula down so that as we made entries the balance was calculated automatically. By doing this however we created a long column with the current balance showing, not really too neat.

How do we get around this, simply create a formula that places either a null value in the column or a zero value. What we want to do is this: if the cell that contains the income is empty and the cell that contains the debits is empty then make the balance cell empty. This is done by use of the If-Then-Else operator. This function works as such: If the first part of the statement is true then the value, else return the other value. A Sample - IF(r5c6>50,60,40) - this means that if r5c6 is greater than 50 place a value in the cell of 60 otherwise place a value of 40. So if the value is 54 then the cell will be calculated out as 60, however if the value was 34 then it would enter a value of 40. Confused? Let's try our bank balance.

Assuming the balance is in r6c8 enter the following formula:
IF(RC[-2]+RC[-1]<=0,0,R[-1]C+RC[-2]-RC[-1]) or
IF(r6c8+r6c7<=0,0,r5c8+r6c6-r6c7) - this will place a zero in the row below your last entry. You could also enter the value " " (null) in place of the zero between the two commas. Try it. You will find that it takes much longer to recalculate so I don't use it. After you enter the formula, copy it down a number of cells. Now when you make a entry the balance will be shown automatically, zero values will be placed in those cells below your last entry.

SAMPLE #1 - Sector #1 before using MCOPY

```
Sector > 0001
Byte #  2  4  6  8  A  C  E  #  2  4  6  8  A  C  E
0 0002 046B 0003 0004 0483 0005 0006 0007 0008 0009 000A 000B 000C 000D 000E 000F
2 0010 0011 0012 0013 0014 0015 0016 0017 0018 0019 001A 001B 001C 001D 001E 001F
4 0020 048D 0021 049C 0022 0023 0024 0025 0026 0027 0028 0029 002A 002B 002C 002D
6 002E 049A 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
8 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
A 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
C 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
```

SAMPLE #2 - Sector #1 after using MCOPY

```
Sector > 0001
Byte #  2  4  6  8  A  C  E  #  2  4  6  8  A  C  E
0 0002 0003 0004 0005 0006 0007 0008 0009 000A 000B 000C 000D 000E 000F 0010 0011
2 0012 0013 0014 0015 0016 0017 0018 0019 001A 001B 001C 001D 001E 001F 0020 0021
4 0022 0023 0024 0025 0026 0027 0028 0029 002A 002B 002C 002D 002E 002F 0030 0031
6 0032 0033 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
8 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
A 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
C 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
```

```

100 REM *****
110 REM * PRINT CODES *
120 REM * *
130 REM * VERSION 1.1 *
140 REM * BY MIKE MCVEIGH *
150 REM * KAWARTHA 99'ERS *
160 REM * 09 01 1987 *
170 REM * *
180 REM *****
190 REM
200 CALL CLEAR
205 CALL SCREEN(15)
210 PRINT "* PRINT CODES M
. MCVEIGH *"
220 PRINT "A. Condensed prin
t":"B. Condensed print off"
230 PRINT "C. Underline":"D.
Underline off"
240 PRINT "E. Line spacing
1/8in"
250 PRINT "F. Line spacing-n
ormal 1/6in"
260 PRINT "G. Italics":"H. I
talics off"
270 PRINT "I. Paper out off"
:"J. Paper out signal"
280 PRINT "K. Emphasized pri
nt":"L. Emphasized off"
290 PRINT "M. Double strike
":"N. Double strike off"
300 PRINT "O. Skip over perf
.":"P. Skip over perf. off"
310 PRINT "Q. Superscript":"
R. Superscript off"
320 PRINT "S. Double width p
rint":"T. Double width off":
"U. Instructions":"V. End se
ssion"
330 GOTO 350
340 CLOSE #1
350 CALL KEY(0,K,S)
360 IF (K<65)+(K>86)THEN 350
370 OPEN #1:"PIO"
380 ON K-64 GOTO 500,530,560
,590,620,650,680,710,740,770
,800,830,860,890,920,970,100
0,1030,1060,1090,390,1120
390 CALL CLEAR
400 PRINT "- - - -INSTRUCTIO
NS- - - -"
410 PRINT "This program allo
ws you to change the contro
l codes in an epon or compa
tible printer prior to runni
ng any pro"
420 PRINT "gram that gives a
printout. Once selected,
the options are permanently i
n the print"
430 PRINT "er, unless they a
re reset or the printer is tu
rned OFF. The computer ca
n be turned"
440 PRINT "off or new cartri
dges in- stalled, without
affecting the printer."450
PRINT " Control code combin
ations are also possible, su
ch as; 'emphasized' and 'dou
ble-"
460 PRINT "strike', 'double
width', and 'shift in'. The

```

```

'skip over perforation' opti
on advances the page to its o
riginal"
470 PRINT "position after it
subtracts the variable line
s from 66. <PRESS ENTE
R>"
480 INPUT "":X$
490 GOTO 1150
500 REM CONDENSED PRINT
510 PRINT #1:CHR$(15);
520 GOTO 340
530 REM CONDENSED OFF
540 PRINT #1:CHR$(18);
550 GOTO 340
560 REM UNDERLINE
570 PRINT #1:CHR$(27);CHR$(4
5);CHR$(1);
580 GOTO 340
590 REM RESET UNDERLINE
600 PRINT #1:CHR$(27);CHR$(4
5);CHR$(0);
610 GOTO 340
620 REM LINE SPACE 1/8"
630 PRINT #1:CHR$(27);CHR$(4
8);
640 GOTO 340
650 REM RESET LINE SPACE 1/8
"
660 PRINT #1:CHR$(27);CHR$(5
0);
670 GOTO 340
680 REM ITALICS ON
690 PRINT #1:CHR$(27);CHR$(5
2);
700 GOTO 340
710 REM ITALICS OFF
720 PRINT #1:CHR$(27);CHR$(5
3);
730 GOTO 340
740 REM IGNORE PAPER OUT
750 PRINT #1:CHR$(27);CHR$(5
6);
760 GOTO 340
770 REM ENABLE PAPER OUT
780 PRINT #1:CHR$(27);CHR$(5
7);
790 GOTO 340
800 REM EMPHASIZED ON (NO
COMPRESSED, SUB OR
SUPERSCRIP MIX)
810 PRINT #1:CHR$(27);CHR$(6
9);
820 GOTO 340
830 REM EMPHASIZED OFF
840 PRINT #1:CHR$(27);CHR$(7
0);
850 GOTO 340
860 REM DOUBLE STRIKE ON
870 PRINT #1:CHR$(27);CHR$(7
1);
880 GOTO 340
890 REM DOUBLE STRIKE OFF
900 PRINT #1:CHR$(27);CHR$(7
2);
910 GOTO 340
920 REM SOP
930 CALL CLEAR
940 INPUT "HOW MANY LINES? "
:Y
950 PRINT #1:CHR$(27);CHR$(7
8);CHR$(Y);

```

```

960 GOTO 1150
970 REM RESET SOP
980 PRINT #1:CHR$(27);CHR$(7
9);
990 GOTO 340
1000 REM SUPERSCRIP ON
1010 PRINT #1:CHR$(27);CHR$(
83);CHR$(0);
1020 GOTO 340
1030 REM SUPERSCRIP OFF
1040 PRINT #1:CHR$(27);CHR$(
84);
1050 GOTO 340
1060 REM DOUBLE WIDTH PERM O
N
1070 PRINT #1:CHR$(27);CHR$(
87);CHR$(1);
1080 GOTO 340
1090 REM DOUBLE WIDTH PERM O
FF
1100 PRINT #1:CHR$(27);CHR$(
87);CHR$(0);
1110 GOTO 340
1120 CLOSE #1
1130 CALL CLEAR
1140 END
1150 CLOSE #1
1160 GOTO 200

```

BASS NOTES

By Jim Peterson
TigerCub Software

```

90 CALL CLEAR
100 PRINT " THIS PROGRAM WIL
L PLAY AND PRINT THE FREQUEN
CIES FOR TWO ADDITIONAL OC
TAVES OF "
105 PRINT "BASS NOTES ON THE
TI-99/4A. USE THEM AS SHOWN
IN LINE 160. - Jim Peters
on":
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 NEXT J
210 DATA A,A flat,G,F#,F,E,E
flat,D,C#,C,B,B flat,A
220 PRINT "Thanks to Rob Wi
lliams for:""originally publ
ishing this.:"" Note that th
e 1st and 2nd":"notes can be
either an"
230 PRINT "audible or inaudi
ble fre-":"quency and volume
. The 3rd":"note is the code
(not the":"actual frequency)
of the"
240 PRINT "bass note, with a
n inaudible":"volume, and th
e 4th is the":"-4 noise with
an audible":"volume."

```

SAMPLE TRANSLITERATE FILE
by Richard Lilley

.AD
.CO Adjusts copy (right justifies)
.CO down right side of sheet. Must
.CO be used with ".FI"(Fill).

.FI
.CO Fills up copy lines and right
.CO justifies when used with .AD
.CO Can be used without .AD

.LM 12;RM 57
.CO Left margin 12 col, right margin 57

.TL 60:27,120,1
.CO CH 60(<) starts NLQ.
.TL 62:27,120,0
.CO CH 62(>) stops NLQ.

.TL 123:27,52
.CO CH.123 ({} starts ITALICS.
.TL 125:27,53
.CO CH.125 ({} stops ITALICS.

.TL 91:27,83,1
.CO CH.91({) starts SUBSCRIPT.
.TL 93:27,83,0
.CO CH.93({) starts SUPERSCRIP.T.
.TL 124:27,84
.CO CH.124(!)FUNCTION A; stops
.CO both SUBSCRIPT and SUPERSCRIP.T.

.CO This file is called "TLFILE"
.CO always make top line of your
.CO document read ".IF DSKx.TLFILE"
.CO (or whatever filename you use).

.CO Always end document with-
.CO CTL U,FCTN R,CTL U,"@"; this
.CO resets the printer to normal.

.CO Ctl.U,Shift L,Ctl.U, This makes
.CO paper reverse to top of current
.CO page before printing anything.
.CO (Long list of format commands
.CO at top of page causes line feeds,
.CO one for each command.)

LATEST SOFTWARE RELEASES
by Tom Arnold

TI Runner Level Editor
EB Software
905 West Middlefield no. 953
Mountain View, CA 94043
\$18.95

Allows you to edit and/or create the TI
Runner game levels, it includes the original
50 levels plus 44 advanced levels.

Press

Asgard Software
P.O. Box 10306
Rockville, MD 20850
\$59.95 plus \$3 S&H

A new word processor compatible with DV80
files, 40 or 80 column, what you see is what
you get on screen, right justification,
italics, underline, bold, indentation, etc.

are all shown on screen, 100K spell checker,
block operations, multi line headers, footers,
keyboard buffer, etc. Requires 32K, disk
drive or Geneve and disk drive. Is compatible
with most ram disks.

TI-Base

Texaments
244 Mill Road
Yaphank, New York 11980
\$24.95 plus \$2.50 S&H

A 16129 record data base, similar to
Dbase, use command files, 17 fields per
record, 255 characters per field, includes
manual keyboard overlay, tutorial. Requires
32K and disk drive or Geneve.

Jumpboot V.2.0

Disk Only Software
P.O. BOX 244
Lorton, VA 22079
\$15.95 plus \$2 S&H

A disk that boots your Geneve in 4 to 9
seconds depending on your disk controller.
Includes now the GPL loader which loads in 8
to 11 seconds, again depending on your disk
controller.

Requires Geneve computer.

Hyper Copy

Genial Computerware
P.O. Box 183
Gragton, MA 01519
\$20 plus \$1 S&H

A disk copier for the Geneve that will
copy a DS disk in under a minute. Will allow

skewing of the sectors. Can box format,
multiple copies of the same disk, will copy to
and from Ram disks. Runs on all disk
controllers. Requires a Geneve computer.

Starfleet Technical Drawings

Texaments
244 Mill Rd.
Yaphank, NY 11980
\$9.95 plus \$2 S&H

This is a 3 disk set of drawings of the
various starship that have appeared in the
Star Trek television series. Includes files
to allow displaying of the pictures from
Display Master. Requires TI Artist

Designer Labels Companion no. 1 and no. 2

Texaments
244 Mill Rd.
Yaphank, NY 11980
\$9.95 plus \$2.50 S&H for Companion no. 1
\$7.95 plus \$2.50 S&H for Companion no. 2
\$15.95 plus \$2.50 for both
\$23.90 plus \$2.50 for both plus Designer

Labels program.

Companion no. 1 is a 3 disk set of 12
frame styles plus one blank frame. Companion
no. 2 is a 2 disk set of seven frame styles
plus one blank frame. These are used with the
Designer Label program also available from
Texaments. The \$23.90 deal above is quite
good if you do not have this program.

PRINTER COMMANDS DEMYSTIFIED

By Rick Lilley

I think I'm finally getting the hang of it! By reading dozens of newsletters and studying my printers manual (STAR MICRONICS NX-10), I have learned that there is much more to learn. Here is some of what I have learned. I will try to keep you posted.

THESE SINGLE KEY COMMAND FUNCTIONS ONLY APPLY IF THE DOCUMENT'S FIRST LINE READS" (.IF DSKx.FILENAME) IN THIS CASE "(INCLUDE FILE)DSK2.TLFILE". THIS IS A FILE YOU HAVE TO CREATE AND NAME YOURSELF FOLLOWING INSTRUCTIONS IN THE T.I.WRITER MANUAL.(USE WHAT EVER FILE NAME YOU LIKE). SAMPLE FILE BELOW.

Shift Coma;(less than sign)this starts NLQ.
This is NLQ.

Shift Period;(greater than sign) this stops NLQ.

Note: NLQ can also be turned on by Ctl.U, Function R,Ctl.U,(Esc.)x1; and off again by Ctl.U, Function R,Ctl.U,x0.

Function F;(left brace)

This starts *ITALICS*.

Function G;(right brace)

This stops *ITALICS*.

Note: *ITALICS* can also be turned on by (Esc.)4, and off again by (Esc.)5

Function R;(left bracket)

This starts *SUBSCRIPT*.

Function T;(right bracket)

This starts *SUPERSCRIPT*.

Function A;(Char.124) This stops both *SUBSCRIPT* and *SUPERSCRIPT*.

Note: *SUBSCRIPT* can also be

started by Esc.81, and *SUPERSCRIPT* by Esc.80, (zero) and both off by Esc."T".

Ctl.U,Function R,Shift O(Letter O), (CH.15),Ctl.U,

This starts *CONDENSED* copy.

Ctl.U,Shift R(Char.18),Ctl.U,

This stops *CONDENSED* copy.

Ctl.U,Function R,Ctl.U,W1

This turns on **EXPANDED PRINT**.

Ctl.U,Function R,Ctl.U,W0;

This turns off **EXPANDED PRINT**.

Ctl.U,Function R,Shift N,(CH.14)Ctl.U,

This sets **EXPANDED PRINT** to end of currant line only(automatic off).

In case you haven't caught on by now I'll tell you; Control U, Function U, Control U, is the means of entering "Esc"(Char.27). From here on I'll just type "Esc" (where applicable) for simplicity.

Esc."P" Sets print pitch to PICA,(normal print)and Esc."M" sets pitch to ELITE.
"This is elite copy style!"

Esc."E" Sets **EMPHASIZED PRINT**,and Esc."F" cancels **EMPHASIZED PRINT**.

Esc."G" Sets **BOLDFACE PRINT**, (or **DOUBLESTRIKE**), and Esc."H" cancels **BOLDFACE**.

Esc."E" and Esc."G"

Sets **EMPHASIZED** and **BOLD** simultaneously.

Esc."F" and Esc."H" cancels both.

Esc.Shift Slash(minus sign) and "1" will UNDERLINE EVERYTHING FOLLOWING until turned off by Esc."minus"0(zero); unlike T.I.Writers underline command which only UNDERLINES until the first space is encountered. They both have their uses.

Esc. Shift 2(at sign) Resets printer to normal.

Esc."8" Disables "PAPER OUT" detector(for printing single envelopes etc.)Esc."9" enables "PAPER OUT" detector again.

Ctl.U,Shift G,Ctl.U; Sounds printer BUZZER.

NOTE: Almost all printer functions can be set with direct commands i.e. Ctl.U codes or by building "Transliteration Files" with T.I.Writer(Funnelweb), the choice lies with the user. Also, most commands can be combined such as **EMPHASIZED** and **BOLD**, or **EMPHASIZED** and **EXPANDED**, etc., by either direct commands or in a ".TL" file. Also, I should note, that while these commands are based on the instructions that come with my printer, (Epson compatible) most printers use the same commands, and I think from what I have said here, you should be able to translate what your printer manual tells you into some useful functions.

I hope I have made a few things a little clearer for some of you, Lord knows, it took me a long time to catch on. This word processor of ours is a very powerful and useful program, and it's full potential is yet to be realized by most of us I'm sure.

GOOD LUCK!

ORDER FORM

NAME _____

ADDRESS _____

CITY _____

PROV _____

POSTAL CODE _____

TI FOCUS is available by mail at a cost of \$17.50 a year. Orders taken after Jan 1 will include all back issues for the current year.

Send your order to: Channel 99
856 Meadow Lane
Burlington, Ontario
L7L 4R8

CHANGE A LOWER CASE LETTER UNDER THE CURSOR TO UPPER CASE!!! And Ctrl. . will change an upper case letter under the cursor to lower case! AND BOTH OF THESE HAVE AN AUTO REPEAT!!! At last! Praise the Lord, He hath answered our prayers! If I seem a tad excited, please forgive me, but I am one of those dummies who thinks of capitalizing titles after I have typed them. Upon discovering this one I was forced to resist an urge to zap an entire article with ctrl. ;'s. Ok, on to the less thrilling stuff. The Directory will now handle up to 127 files on one disk, and the Redo command will re-read the directory on the same drive- useful when you are searching a pile of disks for a specific file. Roll Up and Roll Down are now also available from ctrl. Q and ctrl. A respectively- less of a stretch for your fingers. The Formatter will now support up to 4 simultaneously open files, allowing nesting of Include File commands.

To be fair to Harry Brashear's preference, BA-Writer may also do all of these things as well, But I am unfamiliar with the program. Harry may be reached by writing to 2753 Main St. Newfane, NY 14100, in the event that you desperately need a copy of his guide.

Have fun, and may the Formatter be with you.

User Supported Software - Formerly Fairware. by John Van Weelie.

First of all I would like to thank all those who take an interest in User supported software. Secondly your small donations you make for the software is accumulated and sent to the authors. By no means is the this small donation which I have seen from most of \$2.00 you to total obligation. I you use the software extensively and you like it, then you should by all means make an effort to send the fee the author is asking. This encourages the User Supported software authors to produce more software and future updates. Remember by using the software and not making your contribution will eventually cause authors the stop writing software as they may feel that it is a waste of their time and effort spend debugging, editing, etc.

We are now owners of orphans. Let's not cut off our lifeline to the 99/4A or the Myarc 9640. Support these authors in their endeavours to provides us with software that even TI did dream possible. If you don't well we are writing our own death sentence and grave.

This month's Selections of User Supported software are:

TASS 2001 V3.00.88 - this is a slide show program which allows you to view TI Artist, Graphics, RLE, and Draw A Bit pictures to form a slide show demonstration etc. Gary Bowser has spent an exhausting length of time writing and debugging and adding features to enhance TASS. It allows for time delays defined by the user, use of Horizon Ram Disk etc.

Logo II Auto Start - LAS is a program written to run from E/A #5 or with an E/A #5 loader from XB. Written by an author from Holland to allow users of the Logo II package to incorporate Autoload feature which is not available in Logo II software package by TI.

Logo II Dump - is a program written by the same author who wrote LAS. This program runs from either E/A #5 or XB with an E/A #5 loader from XB. This program allows the user to dump tiles and shapes created in Logo II to a printer for a hard copy. A feature not available in the Logo II package by TI.

FUN!PLUS is a 2 SSSD disk set which is a collection of Tutorials on using your printer with TI-Writer or Funlweb. This disk has a collection of DV80 files with printer commands in them which can be used with the .IF command from TI-Writer or Funlwriter. This utility package is very excellent disk set to have and own. The author has incorporate lots in this package to get the most from the Word processors - TI-Writer or clones.

Last month's selections are available except the G-Language disk which I have not had time to copy. The response for this disk was overwhelming that we ran out of copies very quickly at the meeting last month. I will try my best to make sure it is available at DECEMBER's Club meeting. I Hope to obtain some different User supported software for December including TELCO v2.2.



SF, but just entering SF is also acceptable even though the choice is not yet listed in the menu. The only option for which this does not apply is (E)xit. You MUST first select (Q)uit, otherwise the computer assumes that you wanted to (E)dit. It's actually a bit of an advantage this way if you think about it, and it may actually be intentional.

TI WRITER AND FUNNELWEB TUTORIAL

By Tor Hansen and Dwayne Verhey.

At last month's meeting there was made available, for the nominal fee of \$3.00, a small blue book entitled "THE WRITERS", written by Harry Brashear. This book proved to be a well written and extremely useful guide to the TI Writer clones, easy to read for the novice, yet remarkably comprehensive in it's scope, and I hasten to recommend it to any of you neophytes out there who have yet to fully unravel the mysteries of the Editor and Formatter.

That said, I do have some comments to make, being a bit of a perfectionist, or a nit-picker, depending on your point of view (actually, I'm just mad that someone else is treading on my turf, and doing it so well at that).

First of all, Harry (if I may be so bold) states right up front that his favorite clone is BA-Writer, apparently in part because the Show Directory command is available in the Formatter. WELL MY FAVORITE (Funnelweb) CAN DO THAT TOO! All you do is press fctn. 7, and this works pretty well throughout the program. So there. Nah nah. Next: Harry's guide mentions that all the clones have the files EDITA1, EDITA2, FORMA1, and FORMA2. This was in fact the case with Funnelweb until version 4.0, when the corresponding files were renamed ED, EE, FO, and FP. But that doesn't really matter much since Funnelweb user's accessing the program through the Editor/Assembler module will use Load and Run (option 3) with the filename of DSKx.LDFW (for Load FunnelWeb), as outlined in a previous article.

Ok, once loaded Harry suggests resetting the right margin to 40 in order to avoid that irritating windowing routine. I would suggest a right margin of 39 with Funnelweb, and further that you then press fctn. 0 to get rid of the line numbers, since things will still window if the numbers are present. Another small item that bears mentioning regards the command line. As Harry states, choosing an option from the command line menu will bring up a sub-menu with many of the selections. For example, entering an F for files will net you (L)oad (F)ile, (S)ave (F)ile, (P)rint (F)ile, etc. However, once you have learned the options that are available, you may bypass the initial selection and enter the sub-menu choice directly. For example: in order to save your text you could (after first pressing fctn.= to get to the command line) choose F, and then

One of the really neat things about using a TI-Writer or clone is the Replace String function. For example, I write something, print it out, use a pencil to correct my many spelling errors, go back to line 1, and use RS to fix them. I have a small tip to make regarding Harry's description of this feature. The method outlined in TI's own manual to change "to" to "too", for example, is to enter RS, then /to/too/. The problem with this however is that "stop" will become "stooop". The cure is to enter a space before and after the word- IE: / to / too /. This will prevent the program from making unwanted and often beguiling changes. Also, Harry forgot to mention that while the symbols "&" and "@" perform special functions when used with the formatter, typing them twice, as "&_" and "@_" will cause them to be printed once, rather than affecting the formatter function.

My final comment about "The Writers", regards Harry's strip making program designed to print out a keyboard overlay for TI-Writer/Funnelweb/BA-Writer etc. I have no reason to believe that it doesn't work, but damned if I am going to type in a program when all I have to do is lay out the strip using Funnelweb! Imbed the printer control codes for elongated $\{\{27\}+W+{1}\}$, compressed $\{\{27\}+{14}\}$, superscript $\{\{27\}+S+{0}\}$, and 1/16" line feed $\{\{27\}+A+{4}\}$ -this all assumes that you have an Epson compatible dot matrix printer and have read last month's article on entering control codes mind you. Then enter the descriptions of the keys across all eighty columns, as a five row table. They are, from left to right, OOPS!/Del Char, Re-format/Ins Char, Screen Colour/Del Line

Next Para/Roll Down, Dupe Line/Next Wind>
Last Para/Roll Up, Word Tab/Tab,
New Para/Ins Line, New Page/Escape,
Word Wrap/Line #'s, /QUIT. I'll leave you to play around with the spacing, but I assure you that these abbreviations line up nicely over the keys when spaced properly. Alternatively, you could get a copy of my "Pocket Guide to TI-Writer", which is no where near as comprehensive as Harry's guide, but it does at least come with the overlay printed out. Or just get out a magic marker and print real small on one of those extra strips that TI gave you with your console.

A few articles ago, I endeavored to document all the differences between the original TI-Writer and Funnelweb, but the McGovern's have done it again, and this would seem as good a place as any to mention the additional changes that I have noticed with the latest version (4.10). Ctrl. ; WILL