



THE NEWSLETTER OF THE K-TOWN 99/4A USERS' GROUP

AND

THE ATHENS COMPUTER CLUB

FEBRUARY, 1989

FEBRUARY MEETING

The K TOWN 99/4A Users Group will meet at the MLB (Mechanicsville, Lonsdale, Beaumont) Building on the second Thursday of the month. The date is February 9. Doors open at 6:30 P.M. The agenda will include the following: 7:00-7:30 - Copy files from Joe White library which we recently purchased. 7:30 til necessary a demonstration of CFM by Norman Spector. We blew this one at our December meeting but not again! Following this demo we will have a brief business session and if time permits we will again open Joe's Library for more copying.

Please remember that we must vacate the building by 9:30.

DISK OF THE MONTH

The DISK OF THE MONTH title was not decided upon by press time

If one is available it will be announced at the meeting.

KINDER KORNER-15

By Bob Buehler

THE PROMISED SUMMARIES.

A two-page summary of Printer Controls that function usefully in Editor Mode of TI-Writer was promised earlier. Also a file-card-size abbreviation. These won't fit into the two-column, compressed format of the Newsletter. Hence they are supplied as attachments.

EDITORS NOTE : See pages 6, 7, & 8.

I expected that these would be "a breeze" because I'd done a useable version nearly three years ago. Thinking I was three years smarter, an improved update should be easy and quick. The quick part was how long it took to discover that three years older doesn't equal three years smarter!! Gosh it took a bunch of trials and corrections. Yu-know, the usual cliché is "trial and error." That makes no sense. Better would be "error and trial." Still better is my just now invention, "trials and corrections." Whadauthink?

The "trials and corrections" were needed in the two-page summary specifically for illustrating the Print Controls. Like Italics, Double Strike, Compressed. That kind of stuff. The basic text was in PICA. It took a bunch of controls to illustrate a different font and then turn that off to go back to the text in PICA.

I'll have the two page summary on a diskette at

future meetings in case someone wants a copy. The same for the file-card size abbreviations. But more about the file-card summary, following.

File Card Abbreviations It was soon apparent that the abbreviations would easily fit the long dimension of a 3" X 5" file card provided the Compressed Font is used. Not so easy is the vertical fit. This required special line spacing. Allowing 4 space lines for clarity, 22 lines would be needed. Adding two spaces for top & bottom margins, yields 24 lines needed within the 3" card height.

Three inches divided by 24 = 0.125 inches. This times 144 = 18. This is the n value in the line spacing keying. Be reminded that the coding for this is CU FR CU 3 CU SH R CU. SH R is ASCII CODE for 18, see page 146 of TI Writer.

Well, this worked as planned, but the top and bottom margins were skippy so I changed n to 17. Can you figure out how? Both versions are shown on the attachment, the latter is on top 'cause I like it best.

REMEMBER FUN WITH SUPERSCRIPIT?

I bragged that I could print "Now is the time for all good men" and also "The quick cly for jumped over....." quotes two times on one postage stamp. Now I figure you'd like to see it. So it is being printed on the same page attachment that shows the file-card size abbreviations, in between them just for the heck of it.

Line spacing used is 8/144".

This fun thing will also be on the diskette that I'll bring to future meetings.

WHAT'S NEXT WITH KINDER KORNER?

Darned if I know. This winds up the principal print controls that I recommend for use in Editor Mode of TI-Writer, Funnelweb version, of course. Does any reader have an idea? Is there any reader? I'd like a new general topic or theme. Come on. Give!

A long time ago, in the Acquaintance List stuff I defended using Data Statements for inputting the names and addresses. It is so, so much easier than the other alternative, using FILES, for the number of acquaintances most of us enjoy. Admittedly, a FILES method is the more sophisticated, and the best, for a huge amount of information and some situations. Maybe, but only maybe, I'll give FILES a whirl. But not for an Acquaintance List!! There may be a gap in KINDER KORNER during that effort.

BB 12/16/88 & 1/8/89 and some inbetweens.

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POT-POURRI

by Bill Sheridan

As I have mentioned before, if you are not reading the newsletters (about 40 every month) from other 99er Users Groups, you are missing the proverbial boat on hardware and software information for the TI-99/4A. Below are a few examples of the many, many articles you will find on a large variety of subjects:

SPIRIT OF 99 of Central Ohio-November - TI-Base; Tips from the Tigerclub; and TI-Writer. The December issue contains articles on TI-Writer; 1000 Words; TI-Base; Tips from the Tigerclub; a full page of names of articles from other newsletters; and an article on cleaning printers.

THE FRONT RANGER of Colorado Springs-December - 20 pages of configuration instructions for Funnelweb (I'd like to see a demonstration of this!).

WEST PENN of Jeannette-December - Reconfiguring Funnelweb 4.10 to change printer call-out from RS232 to PIO (or vice versa); and the "ZENDBOARD"-a possible new board in the console that will support 32K static RAM, battery-backed clock, speech synthesizer, and extended basic.

THE NORTHCOAST AND TI-CHIPS Cleveland area-December - TI-Base (6 1/2 pages), and TI-Writer.

99V (Ilex) of La Crescenta, Ca.-December - Disk Fix; a program listing to print a disk catalog in 3 equal columns, and a Disk Label program.

Topics of LA 99ers-September - Forth (5 p.); E 2

Basics; a review of Super Extended Basic; Telecommunications (BBS'ing); and Relative File Sorts in XB.

Of course one of the most informative publications for the TI-99/4A is MICROpendium. Among the many interesting articles in the December issue is a review of the P-GRAM Card, a GRAM loading device, for the PE box. If you don't have a GRAM-Kracker, you should read this!

While I am on the subject of newsletters, I'd like to mention that carrying 3 overstuffed boxes and a bag of books to the meetings got to be a chore, especially since nobody read or rarely checked them out. So I have condensed the files to one box (22 User Groups and MICROpendium) to contain only the past and present years. We have some newsletters extending back to 1984!! - So, if you want some I don't have at the meeting, please let me know and I will get them to you.

Moving along to another subject, as Editor, I must remind you that the next newsletter (MARCH) will be the last, unless you have paid your dues for next year. Of course this also brings up the subject of Officers and Committee Chairmen for next fiscal year (beginning in April). According to the recent survey, nearly everyone that said that they wanted the K-Town group to continue, would except a responsible position in the club. Knowing that you won't renege on your word, I'm expecting two or more members to run for each Office.

Time for coffee! - See you at the meeting.

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NOTICE TO TI-COMMUNITY

SPECIAL REQUEST TO TI-COMMUNITY AND GENEVE USERS SPECIFICALLY

W. Irving Crowley, Lost Canyon Road, Pine Level, AL 36065 requests that someone, anyone, please send him a copy of the Geneve MDOS V1.06 or higher. Will anyone out there help him? He would appreciate it, I am sure. I am publicising his request to test the TI Community in it's willingness to respond to a request for HELP. Please don't let me or Irving down! In order for us to survive here in Knoxville we need to prove that there is help from the TI Community at large.

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Newsletter Editors

do not read this

Last month I inserted this same article in our newsletter and did not get the first response. Please read on...

Let each of us face the realities before we loose

the vehicle of the newsletter exchange!

Our TI community is getting older and many of us are growing into the improve computers now available, or we are moving on to college and new endeavors, or we are dying and our heirs are putting our toys in the closets.

As our followers decrease in numbers, we find it no longer feasible to exchange newsletters on a monthly, bimonthly, or other basis. Soon we find we no longer can afford to pay the publishing cost for the newsletter just for our individual club's membership.

A Solution might be for us to send letters to "contact" people in each of our clubs. In these letters we can exchange ideas and with these mailings we can pass along "Freeware" software that is of interest. Deanna Sheridan, Bobby Cox, Tony McGovern, Irving Crowley, Tom Freeman, and I have already been doing this for several years.

By your letter responses, I will see what your comments say!

Best Wishes
Joe N. Simmons 12/26/88

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'DUMP/DEMO'
by
Irving Crowley

As for the screen text to printer dump, I often use a rather simple method. It consists mainly of two parts. First I dimension a 24-element string array, say M\$(), and then I equate appropriate quoted text strings to each element corresponding to the 24 available screen rows.

When I want to print the screen, I branch to a subroutine that sequentially prints each of the string array elements. In the past I've usually employed subroutines; but a recent article in Micropendium (11/88) prompted me to use subprograms. The method is neither the fastest nor the most efficient use of available memory; but it is flexible. Below is an example.

Here's how it works:

1) Line 250 dimensions the array. I require a 24-element string array to put 24 lines of text on the screen.

2) Lines 270-320 assign quoted text strings to the M\$() array. These correspond to the rows of page 1 of text.

3) Line 330 does 2 things. First it displays the text array on the screen by calling the MON(M\$()) subprogram which begins at line 690. Then it executes the PAUSE(M\$()) subprogram which begins at line 540. This subprogram suspends further program execution waiting for a keypress of either <PROCD> (to next page), <P> (to print the strings), or <ESC> (to stop program execution).

4) Lines 340-380 once again assigns a second page of text strings to the M\$() array elements. The program is re-using the same 24 string-variable elements of the M\$() array that were used for the first page. Before these assignments are made, it was necessary to first set the array elements equal to null strings ("") in line 580 which calls the CLS(M\$()) subprogram of line 640.

5) Line 740 is the beginning of the DUMP(M\$()) subprogram. It can be made more simple. I've inserted a lot of unnecessary printer control codes to print in double-print expanded elite mode. It opens "PIO", and sequentially prints the 24 M\$() array elements in a FOR-NEXT loop; it closes "PIO", and exits back to line 580 of PAUSE.

I find this BASIC routine faster than 720 calls to GCHAR and 720 string-variable concatenations. It doesn't require loading a separate resident dump program, but it won't print displayed graphics unless they correspond to a printer graphics set.

```
100 !=====!  
110 ! Filename: DUMP/DEMO !  
120 !-----!  
130 ! Sub programs demon- !  
140 ! strate a simple and !  
150 ! logical approach to !  
160 ! dumping displayed !  
170 ! text to printer. !  
180 !-----!  
190 ! Written Dec 17, 1988 !  
200 ! by W. Irving Crowley !  
210 ! Lost Canyon Road !  
220 ! Pine Level, AL 36065 !  
230 ! Ph (205) 584-7644 !  
240 !=====!  
250 DIM M$(24)  
260 CALL CLEAR :: CALL SCREEN(5):: FOR I=0 TO 14 ::  
CALL COLOR(I,16,5):: NEXT I :: CALL  
CHAR(133,"000600FF"):: L$=RPT$(CHR$(133),28)  
270 M$(1)=" PRINTER DUMP DEMO" :: M$(2),M$(23)=L$  
280 M$(4)="Patriotic fellow citizens" :: M$(5)=" did  
you ever note" :: M$(6)="Ho w we honor Mr Fulton, who" ::  
M$(7)=" devised the choo-choo boat?"  
290 M$(8)="How we glorify our Edison" :: M$(9)=" who  
made the world to go" :: M$(10)="By the bizzy-wizy  
magic" :: M$(11)=" of his little dynamo?"  
300 M$(12)="Yet no spirit-thrilling" :: M$(13)="  
tribute has been ever heard" :: M$(14)=" or seen" ::  
M$(15)="For the fellow who invented"  
310 M$(16)=" our political machine!" :: M$(17)="Sure  
a fine inventive genius" :: M$(18)=" who has labored long  
& hard"  
320 M$(19)="Til success has crowned his" :: M$(20)="  
research -" :: M$(21)="Shou ld receive a just reward." ::  
M$(24)=" Press PROCD, <P>, else ESC"  
330 CALL MON(M$( )):: CALL HCHAR(21,31,46):: CALL
```

```

PAUSE(M$(1))
340 M$(1)=" PRINTER DUMP DEMO" :: M$(2),M$(23)=L$ ::
M$(4)="Hail the complex mechanism" :: M$(5)=" full of
wires and cranks" :: M$(6)=" and wheels,"
350 M$(7)="Fed by graft and loot and" :: M$(8)="
patronage as noiselessly" :: M$(9)=" it reels." ::
M$(11),M$(12),M$(13),M$(14)=" ."
360 M$(16)="Out of nothing but cor-" :: M$(17)="
ruption, making dollars" :: M$(18)=" neat & clean," ::
M$(19)="Where's the fellow who"
370 M$(20)=" invented our political" :: M$(21)="
machine?"
380 M$(24)=" Press PROCD, <P>, else ESC"
390 REM
400 REM
410 CALL MON(M$(1))
420 CALL PAUSE(M$(1))
430 DISPLAY AT(24,1):"HOLDING TIL <Q> IS PRESSED"
440 CALL KEY(0,K,S):: IF S=0 THEN 440
450 IF K<>81 THEN 440
460 STOP
470 REM
480 REM
490 REM
500 REM
510 !-----!
520 ! Keypress Logic Sub: !
530 !-----!
540 SUB PAUSE(M$(1))
550 CALL SOUND(120,1420,3)
560 CALL KEY(0,K,S):: IF S=0 THEN 560
570 IF K=80 OR K=112 THEN CALL DUMP(M$(1))
580 IF K=12 THEN CALL CLEAR :: CALL CLS(M$(1))::
SUBEXIT
590 IF K=15 THEN CALL CLEAR :: STOP ELSE 550
600 SUBEND
610 !-----!
620 ! Clear Variable Sub: !
630 !-----!
640 SUB CLS(M$(1))
650 FOR I=1 TO 24 :: M$(I)=" " :: NEXT I :: SUBEND
660 !-----!
670 ! Display Screen Sub: !
680 !-----!
690 SUB MON(M$(1))
700 FOR I=1 TO 24 :: DISPLAY AT(I,1):M$(I):: NEXT I
:: SUBEND
710 !-----!
720 ! Printer Dump Sub: !
730 !-----!
740 SUB DUMP(M$(1))
750 DISPLAY AT(24,1):"
760 OPEN #1:"PIO" :: PRINT
#1:CHR$(27);"M";CHR$(27);"G";CHR$(27);"W1";TAB(18);M$(
(1):: FOR I=2 TO 24 :: PRINT #1:TAB(11);M$(I):: NEXT I ::
CLOSE #1
770 DISPLAY AT(24,1):M$(24):: SUBEND

```

LIBRARY UPDATE
by E.M. Smith

As announced at the last meeting the group has purchased Joe White's Library. This library is rather complete and Joe had it well organized. I have completed cataloging this library and for the first time in about two years or longer the group has a printout of this library. It is probably more complete than the group library. I will bring this library to the February meeting along with the group computer system and expect to have everything set up and ready to go by 7:00 P.M.

Any member who would like to have files from this library should come prepared with blank disks that have been initialized in a manner that is compatible with their personal system. If you bring floppies, be sure to initialize both sides. Any disk name will do. It may be a letter, number, or whatever. The name will be changed if you like, when the files are copied to it. Since most of this library is formatted DSSD we will be unable to "sector copy" unless your system has DSSD drives. It will be necessary to "file copy" if you have SSSD drives. That is why it is important that you initialize your disks before the meeting. This will save much time and permit more of you to avail yourselves of the files in this library in the short period of time that will be allotted. Only thirty minutes of our meeting time (7:00-7:30) will be allotted for this purpose. Most of the time will be allotted to the demonstration of CPM by Norman Spector and the business meeting.

If the allotted time does not permit everyone to be served at the meeting, I will make copies at my home during the week following the meeting, and you may pick them up at my home when it is convenient for both of us or I will bring you your copies to the March meeting. Just remember to bring your initialized disks and give me in writing the number(s) of the disk(s) in the library that you wish to have. For identification purposes, each disk in the library has been assigned a number between 5000 and 5189. Your cost is \$1.00 per disk that is copied from the library, regardless of how many of your disks are used.

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February MeETING

The Athens Club's February Meeting will be held on Saturday, the 18th at 10:00 A.M. at either Joe Simmons's home in the Seven Cedars Subdivision in Etowah, Tennessee or at the Etowah Church of Christ building. We will hold elections for our 1989 club officers. All members are eligible.

Be sure to bring those programs with which you are having troubles and we will try to debug them.

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January Meeting

Jimmie and I spent our meeting debugging his church budget program. Later we looked through my graphic designing of ET and discussed the need of purchasing some new diskettes, diskholders, and perhaps labels for our members who will reimburse the club.

Via phone Joel nominated Joe Simmons to be the club president but due to the lack of membership present we could not vote. So we have postponed elections until February.

Todate we have received the following membership renewals: Lloyd Wilson, Foster Fulton, & Joe Simmons. Jimmie, Irving, and Larry have indicated that they would renew their membership. Joel has indicated that for the time being he is going to drop out of the club. He feels he is not getting the proper support from the club. As he says and I quote " Over the past year I have been less and less willing to bend over to pick up the stick let alone to carry it."

Of all the members, Joel's absence will be noted for he and Jimmie are the mainstay at the meetings. Although he may not be present at meetings, he says his door is always open for a cup of coffee and some computer talk!

Respectively submitted, January 21, 1989...jns

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STUNBLINGS

by
Joe N. Simmons

Have you ever stumbled on to a new technique either at the computer or in another club's newsletter? If so, this column is for you. The geniuses will be so deep in thought that they will never know that they missed these stumbles! Enough gibberish.

On the 27th, Joel Braddock and I journeyed up to K-town where we met at E.M. Smith's home to learn more about the use of a modem. Besides Joel, E.M., and I, Bill Sheridan and Carl Hinton was in attendance. E.M.'s computer set up is real neat in the basement of his home.

He led us through the initialization of the modem program, then the accessing of the UT/Health Bulletin Board, and the downloading off the board. To E.M.'s surprise, his phone rang and his wife offered to fix turkey sandwiches for our little horde. We readily accepted and they were delicious!

E.M., I enjoyed our get together. You did a fine job educating us on the use of a modem and I may use one one day...when I find some one locally interested so I may forgo the long distance telephone bills.

On the 29th, Art Gibson shared one of his off days with me. Considering how few he gets, I felt right honored.

Having had problems running his newsletter program, he brought his entire source code with him. After nearly an hour and a half of frustration, we noticed that his program was ignoring "\" function Z. Dumb me! Several

years ago I had seized upon Mike Dodd's change in the format file of TlWriter which change the emphasize symbol from the "at" to function "c" and the underline feature from the "ampersand" to function Z.!!

Once I had changed these back in the Format file, his newsletter program ran without a hitch.

We spent the balance of the afternoon experimenting on the insertion of graphics into code. We went over his Headgraphs program which creates the Headgraph of his newsletter. What a simple question to create such a mountain of data information. Art, although I may at times seemed to be slow, I am beginning to learn more and more about the usefulness and the utility of our little "toy"! Thank you for your patience.

Since Art's visit, I have rediscovered Dave Rose's graphic editor. Dave's program makes the application of developing a graphic much simpler than I had originally thought. With it I designed the graphic of "ET" on the bicycle. Those of you who are interested, I will be happy to give you a copy of ET graphic.

Elsewhere in this newsletter is an article from the Athens Club's Irving Crowley of Pine Level, Alabama. Amongst the other "careware" software which Irving sent is a program which prints the Mona Lisa. It does a good job. Irving also sent some programs on various math and engineering libraries, graphic package for plotting curves, and and ti singing dean's.

Being year ending, I have been working with Jimmie Gordon to debug his church budget program which contained an error in the year end totals and to develop subtotals inside the program to make the print out more useable. As those of you who program know, as one makes changes he unconsciously causes new bugs to appear; So, the debugging goes on and on!

IRVING: In Jimmie Gordon's Checkbook Manager program which is on the file "JOEDIDIT" Jimmie and I have found a year end total error. The corrected portion is as follows in line 534:

```
534 L(B,33)=0 :: FOR I=1 TO 32 ::  
L(B,33)=L(B,33)+L(B,I) :: NEXT I :: IF B=13 THEN RETURN  
ELSE G=B :: GOTO 570 :: RETURN
```

Sending messages like this through the articles is bloody like the english sending gibberish to the french underground during the early 1940's eh!

Enough stumbling for this month...Joe//16:05 hrs.
1/21/89 at Etowah, Tennessee.

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Vice Comments

K-town members:

Have you sent Your \$20.00 to E.M.? Eventhough dues time is not until April 1st., we do need to know if you plan to renew prior to April. Being the President of the Athens Computer Club and hearing their comments makes me feel we all have a major problem. Of the Athens Club only two have indicated that they are willing to pay the \$20.00 to keep receiving the K-town newsletter. Since the Athens Club was a part of the survey, this is ominous!

What the Athens Club has been considering is to make up the difference in our dues from the club's treasury to pay for the K-town newsletter. They have indicated that they wish to wait until the April meeting to pay the \$120 i.e., (6 x 20). In other words, they will not gamble until the k-town club shows some resolve.

I am one of the two, but I am also conservative with my limited funds. Driving 135 miles per meeting is too much expense twice per month. I enjoyed the comradeship we have developed and the exchange of programs and programming helps. As Joel says, "Computer Talk" is a grand past time.

Our situation is sorta like swimming after your boat has gone down. We know we can reach the shore on our own; we know we can afford to help you-all with expenses for one more year if you are willing to swim with your part of the load; but we are not willing to drown with you (spend our treasury unless you are going to swim all the way to the shore).

Quite blunt, but true!

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The Athens Computer Club could easily become a multi computer club again since there are many friends who have or are going with the "Big Blue" clones. Of our present membership, three are already programming with IBM's at work. One has an IBM at home and three are considering the feasibility of purchasing one.

HOWEVER, we all still love our T1's and will be programming and experimenting with our toy for a years to come.

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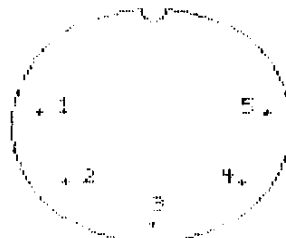
Be present with a Tennessee Volunteer attitude at our next K-town meeting!

Best Wishes
JNS 1/21/88.

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MONITOR CABLE PIN OUT
by E.M. Smith

I recently purchased a used Commodore color monitor and a need to know the pin-out for the monitor cable arose. Doing it the hard way, I had no information to go by, I learned the following and made this sketch to share with you. You'll probably never need this information but if you do it will save you considerable time. The view is as you would see the plug in the back of the console and with you facing the back of the console.



2 = video
3 = ground
5 = sync
PIN OUT
FOR
MONITOR CABLE

ABBREVIATIONS: CTRL = C, FCTN = F, AND SHIFT = S

POWER ON CU FR CU S2

PICA CU FR CU B CU SA CU 1 LN DBLWD CU SN CU REL CU ST CU
ELITE CU FR CU B CU SB CU COMPRS CU SD CU REL CU SR CU
COMPRS CU FR CU B CU SC CU
SUPSCR CU FR CU S CU S2 CU SUBSRP CU FR CU S CU SA CU
RELEASE (EITHER) CU FR CU T

EMPHZ CU FR CU E CONTINUOUS DBLWD CU FR CU W CU SA CU
RELEASE CU FR CU F RELEASE CU FR CU W CU S2 CU
DBLSTRK CU FR CU 6 UNDERLINE CU FR CU - CU SA CU
RELEASE CU FR CU H RELEASE CU FR CU - CU S2 CU
ITALICS CU FR CU 4
RELEASE CU FR CU 5

LINE SPACING

1/8" CU FR CU 0 7/72" CU FR CU 1
1/6" CU FR CU 2 n/144" CU FR CU 3 n
For n = 0 to 31 use Special Character Mode, Pg 146 of T1-Writer
For n = 32 to 127 use ASCII Character Codes, Pg 145, T1/Writer

Now is the time
for all good men
to come to the
aid of their
country. That
is the only
way to stay
together in
this emergency.
- George Washington



ABBREVIATIONS: CTRL = C, FCTN = F, AND SHIFT = S

POWER ON CU FR CU S2

PICA CU FR CU B CU SA CU 1 LN DBLWD CU SN CU REL CU ST CU
ELITE CU FR CU B CU SB CU COMPRS CU SD CU REL CU SR CU
COMPRS CU FR CU B CU SC CU
SUPSCR CU FR CU S CU S2 CU SUBSRP CU FR CU S CU SA CU
RELEASE (EITHER) CU FR CU T

EMPHZ CU FR CU E CONTINUOUS DBLWD CU FR CU W CU SA CU
RELEASE CU FR CU F RELEASE CU FR CU W CU S2 CU
DBLSTRK CU FR CU 6 UNDERLINE CU FR CU - CU SA CU
RELEASE CU FR CU H RELEASE CU FR CU - CU S2 CU
ITALICS CU FR CU 4
RELEASE CU FR CU 5

LINE SPACING

1/8" CU FR CU 0 7/72" CU FR CU 1
1/6" CU FR CU 2 n/144" CU FR CU 3 n
For n = 0 to 31 use Special Character Mode, Pg 146 of T1-Writer
For n = 32 to 127 use ASCII Character Codes, Pg 145, T1/Writer

GEMINI 10X PRINTER CONTROLS

FOR TI-WRITER IN TEXT EDITOR MODE

By Bob Buehler

This summarizes material that was more completely explained in the K-TOWN 99ers news letters of October 1988 through January 1989 in KINDER KORNER articles number 11 through 14. Now, to conserve line space, the CTRL key will be abbreviated CON, FCTN will be FUN, and SHIFT will be SHF.

A few print controls need only Special Character Mode: CON U SHF ? CON U. To illustrate, for one line Double Wide N takes the place of the question mark, thusly, CON U SHF N CON U. Many controls need only ESC (Escape): CON U FUN R CON U ?. Emphasize, Double Strike, and Italics, see below, are examples. Some controls need both. The four Fonts, soon upcoming, are examples, but first:

POWER-ON. IT'S LIKE TURNING THE PRINTER OFF, THEN ON.

SET POWER-ON CON U FUN R CON U SHF 2

Example: Power-On releases any and all existing print controls. This results in the Default condition which is PICA Font and 1/6" line spacing as illustrated in this paragraph.

THE VARIOUS FONTS (CPI = Characters per inch.)

SET PICA, 10 CPI CON U FUN R CON U B CON U SHF A CON U

Example: This is 10 CPI, known as PICA, in most common use.

SET 12 ELITE, 12 CPI CON U FUN R CON U B CON U SHF B CON U

Example: This is 12 CPI, known as ELITE, often used in Government.

SET COMPRESSED, 17 CPI CON U FUN R CON U B CON U SHF C CON U

Example: This is 17 CPI, known as compressed, for various uses.

SET DOUBLE WIDE CON U FUN R CON U W CON U SHF A CON U

Example: **For continuous double wide.**

Release: CON U FUN R CON U W CON U SHF 2 CON U

NOTE: All four Fonts are the same height, about 1/10 inch.

SET 1 LINE DOUBLE WIDE CON U SHF N CON U (SHF N = ASCII CODE 14, PAGE 146)

Example: **This is PICA double wide.**

Release: Carriage return or CON U SHF T CON U (SHF T = ASCII 20)

SET COMPRESSED, 17 CPI CON U SHF O CON U (SHF O = ASCII 15)

Example: This is much the simplest way to set Compressed

Release: Substitute SHF R = ASCII 18 for SHF O

CONTROLS MAY BE COMBINED

SET COMPRESSED, DOUBLE CON U SHF O SHF N CON U

Example: **This is Compressed, one line Double Wide.**

CONTROLS MAY BE SET ANYWHERE.

Example: This is PICA, now ELITE, and now compressed.

Example: SepArate!

EMPHASIS CONTROLS

SET UNDERLINE CON U FUN R CON U - CON U SHF A CON U
 Example: Material is underlined until released.
 Release: CON U FUN R CON U - CON U SHF 2 CON U

SET EMPHASIZE CON U FUN R CON U E
 Example: **Only works with PICA**
 Release: CON U FUN R CON U F

SET DOUBLE STRIKE CON U FUN R CON U G
 Example: Works with **all print styles.**
 Release: CON U FUN R CON U H

SET ITALICS CON U FUN R CON U 4
 Example: *PICA in Italics, now ELITE, now COMPRESSED.*
 Release: CON U FUN R CON U 5

SET SUPERSCRPT CON U FUN R CON U S CON U SHF 2 CON U
 Example: This is PICA ^{superscript}
 Release: CON U FUN R CON U T

SET SUBSCRIPT CON U FUN R CON U S CON U SHF A CON U
 Example: This is PICA _{subscript}
 Release: CON U FUN R CON U T

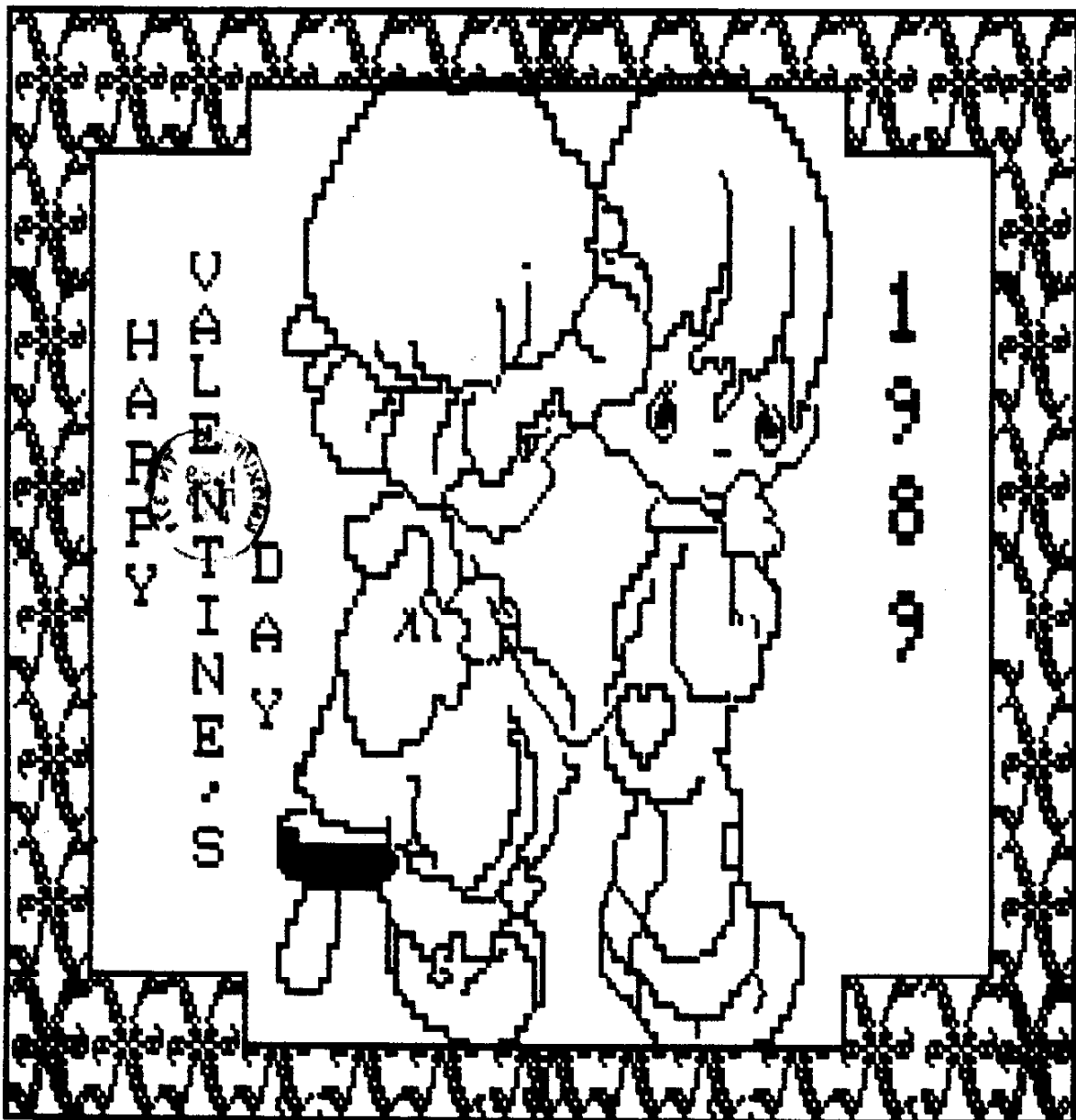
LINE SPACING

SET 1/8" SPACE CON U FUN R CON U 0 (ZERO)
 SET 7/72" SPACE CON U FUN R CON U 1
 SET 1/6" SPACE CON U FUN R CON U 2
 SET n/144" SPACE CON U FUN R CON U 3 n
 For n = 0 to 31 use Special Character Mode & PRESS KEY, Page 146, TI-Writer
 Examples: For n = 10 use CON U SHF J CON U
 For n = 20 " " " " T " ", etc.
 For n = 32 to 127 use ASCII Character Codes, Page 145, TI-Writer
 Examples: For n = 40 use (
 For n = 50 use T
 For n = 70 use F
 For n = 100 use d, etc.
 Complete examples: n = 10: CON U FUN R CON U 3 CON U SHF J CON U
 n = 50: CON U FUN R CON U 3 SHF T

GOOD LUCK!

BB 12/3/88 and lots of prior dates.

TIME TO RENEW YOUR MEMBERSHIP
YOUR RENEWAL OF MEMBERSHIP
SIGNIFIES YOUR SUPPORT FOR
ANOTHER YEAR.



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NEWSLETTER EDITOR:

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Athens Computer Club
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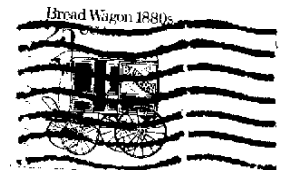
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* K-TOWN 99/4A USERS GROUP
* 3506 Garden Drive
* Knoxville, TN. 37918
*
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* NOTICE NOTICE NOTICE
*
* THE ABOVE ADDRESS SHOULD
* BE USED FOR ALL NEWSLETTER
* EXCHANGES AND CORRESPONDENCE
* PLEASE COMPLY!
*
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TIME TO RENEW YOUR MEMBERSHIP

