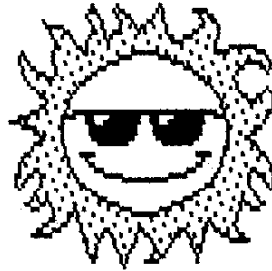
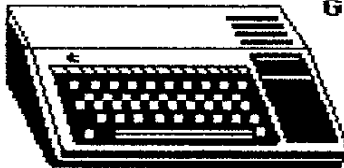


GUILFORD 99'ERS NEWSLETTER



SUPPORTING THE TEXAS INSTRUMENTS TI-99/4A COMPUTER



GUILFORD 99'ERS UG
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GREENSBORO NC
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The Guilford 99'er Users' Group Newsletter is free to dues paying members
(One copy per family, please). Dues are \$12.00 per family, per year. Send
check to: LF Jones, 3202 Canterbury Dr., Greensboro, NC 27408. The Software
Library is for dues paying members only. (George von Seth, Ed.: 292-2035)
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+ OUR NEXT MEETING +
+

+ DATE: August 7, 1990 Time: 7:30 PM. Place: Glenwood Recreation +
+ Center, 2010 S. Chapman Street. +

+ Due to an illness in the family, last month's program was +
+ postponed. Tony Kleen has agreed to try again this month and give +
+ his demo of TI-BASE Vn 3.01. Come along and see the latest in the +
+ evolution toward the "perfect" data base. +
+

+++++
CALL PEEK (PRES)

It isn't often that a product comes along that is the next best thing to sliced bread! I think that I have finally found something that is just that good! Back in April, I demo'ed my newly acquired Quest RAMdisk. The speed and ease of use convinced me that if one Quest was good, two would be better! With that in mind, I sent off a letter to my "mates" in Oz -- Al Lawrence in particular -- to see if there might be one more of those thing floating around for a reasonable sum. A couple of weeks ago, a parcel arrived in the mail with the second Quest in it. A quick order to JDR Microdevices in California produced the requisite number of chips and --voila! -- a full meg of RAMdisk in the PE-Box.

I have Quest #1 partitioned as DSK4 and DSK5 and Quest #2 as DSK6 and DSK7. Just about everything imaginable is on the two of them and DSK7 is reserved as workspace for BBS downloads, text file storage and A/L assemblies. It even makes me wonder what 1 1/2 megs would be like -- a third Quest . . . could be!

I may regret this next undertaking. At the urging, cajoling, and a downright "con job" by Tony McGovern and Ron Kleinschafer, I have undertaken learning Assembly Language. They convinced me that "it is the only way to program" and that it is "really very easy". It might be for the likes of those two but, frankly, I'm having a bit of a problem with it. I did manage to write a rather rudimentary program that displays a series of limericks on the screen. Even that simple program was "interesting" to work on! There were more than the usual bugs (wrong registers addressed), typos, and a bit of "cussin' and fussin'" before all was said and done. I did manage to make a start in A/L and the minor success of the program has encouraged me to think of loftier goals. Anyway, if anyone wants to bumble through A/L with me, give me a call and we will put together an informal Assembly Language class.

Due to an illness in Tony's family, the program was cancelled last month but will be re-done at this meeting. It was probably for the best since most of our "regulars" were either out of the country, sick themselves, or just plain forgot about the meeting. At any rate, with summer coming to an end, here's hoping that EVERYONE will come to this month's meeting for Tony's program. He always does an excellent job and I'm anxious to see this latest version of TI-BASE. I have never been able to get the stuff that I write for TI-BASE to behave properly and I have some questions for Tony before he even starts on the new stuff! This is running a bit longer than I had expected so 'til next month . . .

WHAT'S OUT THERE

With Tony doing a demo on TI-BASE, it is appropriate that we take a look at what is available for the TI in the realm of ---you guessed it --- databases.

Let's start with one of the simpler ones --CMINDEX. It is very simple but by the same token it is also easy to use. It gives the users a variety of output formats including mailing labels. On the other hand, there is no built-in sort routine and the field headings are fixed. It will let you catalog a collection of disks, maintain an address list, or a magazine library. The data is output in a B/V 80 (textfile) format and it can be manipulated with TI-WRITER with no modification at all. Since each record takes up one 80-column line, several thousand records could be stored on disk in a single file. For quick and easy database applications or something to learn about databases in general, it might be a good choice.

Next in this evolution is PR-BASE. This one has been through several versions and updates with the latest being Vn 2.1. It uses it's own format for storing records and, until this latest edition, the data was uncopyable with most disk manager programs. It is much more flexible than CMINDEX and supports custom graphics screens and other "creature comforts". There is a series of utilities available that allows for the actual re-sorting of data on your data disks. Sorting from within the program is a reorder of the index that is created when you initialize your file and start entering data. There are a number of single keypress commands and the documentation is well done. The limitations are 700 records per DSSD disk, though. For large applications this one might not be appropriate.

Now we come to TI-BASE! It is extremely versatile and flexible. The only trouble is that with all of this power comes a bit of complication. You must create your own command files to perform functions on the files themselves. It will store 16,000+ records per file and the files can be merged, manipulated and data exchanged between them. It is a superior database program but a bit difficult to use. In fact, for simple applications, one of the others might be a better choice. This one, though is about the best there is for the TI.

Of these three databases, the first two are fairware and the third is a commercial program. Take awhile to think about what you are going to be using your database for and then make a decision about which one suits your needs the best. Our UG library has both PR-BASE and CMINDEX in it and I'm sure Tony has the details about TI-BASE. It cost about \$24 (and change) and if you are going to use just one database for varied applications, it is probably the one you need.

THE MISSING LINK

This review appeared in the April issue of the Hunter Valley 99'ers UG. The paragraphs have been re-arranged but otherwise the text is the same as the original review.

I was fortunate enough to get a copy of THE MISSING LINK recently and everything that the author says about it in the review is accurate --and then some! It is easy to program with and the documentation is excellent. I would recommend it highly if you want some spectacular programming effects in XB. Maybe not the ultimate extension of XB, it certainly goes farther than anything that has been produced so far!

"This is a program of over 30 assembler subroutines that are available to the user in XB through CALL LINK's, much like the ENHANCED DISPLAY PACKAGE by PARAGON COMPUTING, but much more powerful and with many more features.

There are window drawing routines where the background colour in the window can be different from the screen colour. In fact, the main menu on the demo disk has five windows and each window has a different background colour with two colours of text.

The text commands seem very powerful. Through the use of bitmap graphics, text can start at any pixel row or column printing up to 32 rows and sixty columns. Also, you can have different size fonts on the screen at the same time. In fact, on one demonstration screen, there are six different window colours with six different text sizes in five different colours. Text input up to 255 bytes long except into a window and when text is input or displayed in a window you get automatic word wrap. Windows can be placed in graphic designs or graphics designs can be placed in windows.

The graphics are very impressive and fast with Cartesian graphics, points, lines, circles, and boxes plotted on the screen. TI-ARTIST and TI-ARTIST PLUS full colour pictures may be displayed and saved to and from the screen with the option of adding sprites and music to the picture. A full bitmapped graphics text screen dump is available."

[Ed note: The graphics part of the program is very much like LINES which came with the MINI-MEMORY cartridge except that you can limit the graphics to a window or display them outside of a window. The TI-ARTIST options open new horizons for XB programming.]

"Logo-like Turtle graphics can be generated in the multicoloured mode inside or outside windows with recursive operations allowed.

You can now have four more sprites to give a total of thirty-two and all thirty-two can move at one time plus precise control over whole groups of sprites which can be moved as one without drifting apart as they usually do in XB. Also whole groups can change colour at one time. Looks good for games programmers.

There is a routine called PAPERSAVER that shows on the screen how files prepared with Funnelweb or TI-Writer will look when they are printed, showing underlining and overstrike at least (they being the only things mentioned). It does this by showing the layout of the document on the left two-thirds of the screen with all of the words and letters as very small asterisks. The other third of the screen is taken up by two windows. The top window shows the file name of the document, the number of the page being displayed, and the line number of the page being displayed that the little pointer points to on the document. Under that is a list of the commands available. The other window, that is the bottom right window, actually shows the text (in green) for the line that the little pointer is pointing to, overstrike as black text and showing any underlining as well. I assume from the display that the text was to go through the formatter and that it reads all of the formatter commands. One thing about PAPERSAVER is that you don't have to go back to the formatter to print a document, PAPERSAVER has a hard copy command available.

The final thing on the demo disk is an analog clock with a sweep second hand. It may be all right for showing some of the capabilities but after the clock is drawn and you input the time it takes about twenty seconds to get it under way.

How did they do it? I don't know but the LOAD program is only about 12 lines long which shows up as thirty three sectors on the disk directory which means that it is about 8K long. It must have a heap of assembler code tacked on to the top of it. To have fitted all that into 8K seems incredible. The demo program is 97 sectors long which translates to about 24K and sizing after the LOAD program (with imbedded assembler code) shows 118840 bytes of stack left and 474 bytes of program space left. How much stack space gets eaten up with bit map manipulation a do not know. One thing they do not tell you in the pamphlets is how much room it actually leaves you for your programs. I realize that you still seem to have 24K in high memory but what about the VDP where all your strings are stored?"

[Ed note: The program is a well-written effort and appears easy to use with your XB programs. The only shortcoming is converting all of those graphic row and column values to dot row and column values for use in with THE MISSING LINK]

TONY'S CORNER

By Tony Kleen

Just a note to let you know that all is well with myself and my RAMdisk. My five-day capacitor apparently shorted out as I was inserting it into the PE box at the meeting. I've done this (removing and inserting) at my home several times and had no problem, but once I got away from home and in front of a crowd... Reminds me of a wayward child, kinda' like my own.

Anyway, I got it home, and after a two day cool-down period (mine, not the RAMdisk's), I reloaded the DSR and memory from an earlier backup; and things were going so great, I decided I would solve my problem of not having the RAMdisk's menu automatically presented upon power up. I noticed that with the club's TI disk controller, the RAMdisk had autoboot'ed. My only difference was the CorComp. I proceeded to change the address in the RAMdisk to 1100 instead of the default 1000, then tried to power up. Then I tried again, again, and again. NOTHING!! Unless you call a dark black screen something! WHOOPS! I had better revert back to address 1000. No problem, ... , until power up. Powered up a couple more times. DARN!! That same dark screen was there. I wasn't able to destroy the RAMdisk at the meeting, but here at home, I was worried I might have.

When in deep doo-doo, call John McDevitt of RAVE99. Once again, John was right there to help. He told me what to do. Just remove the DSR 32K chip, reinstall, and reload. Memory was intact! The day was saved. I can't say enough good things about John's support of his RAVE products!!! Thanks again, John!

Do you realize that TIBase 3.01 is out? If not, you don't read your MICROPENDIUM, nor come to our meetings. I received my latest copy last week. I had received 3.00 earlier, then returned my payment; and Dennis Faherty sent me the 3.01 without any questions. Here's another great guy supporting the TI!

As soon as I get this small blurb off to George, I plan to get into TIBase 3.01. These summer months sure cut into my TI pleasure. What with the pool, the ball games, the kids, not to mention the wife; it's past ten before I even get inside! Anyway, I plan to present Dennis's latest update to TIBase at our next meeting. See ya' there.

Tony Kleen

TEX-COMP NOTES

The other day I ordered some TI software from a mail-order house and instead of the familiar brown and white TI diskette jackets I received mine in a plain white jacket with the following note: "this program is out of production and at this time TI has not announced any plans for its continuation by TI or any other entity. Until such time that it may again become available. TEX-COMP is supplying a 'legal' copy using premium disks and cassettes. We report each sale to TI and will be paying them copyright royalties.....This service is provided as a convenience to our customers and to prevent their investment from being diminished." The accompanying documentation was evidently a photocopy of the TI original, complete with TI disclaimers, etc. PS: The diskette loaded without problems. While the paperstock of the documentation may not have been up to TI quality standards, who cares...the program worked and that is really what I paid my money for.

TEX-COMP offers a fairly full line of TI software, disk as well as cartridge software. From their catalogue it is impossible to tell which is a left-over TI original and what TEX-COMP "legal" copies...but who cares. By the way, TEX-COMP claims that they can supply a legal backup/replacement of any TI software in whatever medium if your original ever wears out. Mail in the original and a duplicating fee and they will supply the replacement....Nice and comforting to know if you have an investment in one-of-kind cartridge software!

Allegedly Cor-Comp of California, up till now suppliers of third party memory and RS232 cards for the 99/4A, is working on a successor to the 99/4A called the 99/64. This computer is supposedly compatible with all the 99/4A hardware and software and will be priced in the \$500 to \$600 range. The basic unit will already include 64K of memory, the disk controller and a RS232 port. It will be interesting to see whether this is more than just a hot rumor!

BASIC TIPS

OR WHAT THE MANUAL DID NOT TELL YOU:

By Herman Geschwind

1. HOW TO DISABLE THE "FUNCTION-QUIT" HARDWARE RESET: TI Basic and Extended Basic has two ways to exit, one by typing in "BYE" which will properly close all files, or by pressing "Function=(QUIT)". The latter method really should not be used at all since files will not be closed and unpredictable things can happen if function quit is pressed while files are open. Unfortunately, many of us had the nasty experience of accidentally hitting "Function Quit" with the result that everything in memory was lost and files were scrambled. If you have Extended Basic and 32K memory, the following will disable "Function Quit": CALL INIT::CALL LOAD(-31806,16). This can be typed in as a direct command, or could be the first line of an extended basic program.

2. HOW TO SPEED UP EXTENDED BASIC. While XB offers faster execution speed for some applications compared to console basic, XB can be speeded up even further by disabling sprite graphics (naturally this works only if the program does not use sprite graphics). The program statement is: CALL INIT::CALL LOAD(-31878,0). There are several different releases or versions of Extended Basic and the speed-up effect will be more pronounced with some versions than with others. 32K memory is required.

3. HOW TO RECOVER MEMORY IN TI BASIC/EXTENDED BASIC WITH DISK DRIVE ATTACHED. The TI operating system automatically sets aside memory to serve three concurrent open files. A minimum of 534 bytes of memory are taken up by general expansion overhead plus 518 more bytes for each of the three files opened up by default, or a total of just about 2K. If you know that you will have only one file open, key in the following DIRECT COMMAND: CALL FILES(1)(Press ENTER) NEW (Press ENTER). This sequence will recover 1K of precious memory. Please note that this sequence can be keyed in as a command only and cannot be used as a program statement. Don't forget the NEW or results will be unpredictable. This procedure can be used with both TI Basic or Extended Basic. With TI Basic and attached disk this is more essential than ever since TI Basic will only address 16K and you can ill afford to lose much of that.

XB PROGRAM

Here is a program listing that might help you remove some of the boredom when the weather turns colder in a couple of months. It is one of the old "peg jump" games. The object of the games is to jump one peg over another until you have only one (ha!) left. Keep track of the lowest number that you have left and go from there. Despite what you may think after playing the games a couple of times, it is possible to get down to a single peg.

```

100 REM          : 540 FOR I=90 TO 132          : 1040 READ X,Y,A#          : 1530 GOTO 1590
110 REM          : 550 READ A#              : 1050 GOSUB 2510           : 1540 V1=RC(F,1)
120 REM          : 560 CALL CHAR(I,A#)      : 1060 NEXT I              : 1550 V2=RC(T,1)
130 REM PEG JUMP : 570 NEXT I                  : 1070 PL=32                : 1560 IF (RC(F,2)<>RC(T,2))+
140 REM BASIC    : 580 CALL CHAR(62,"0101010101 : 1080 PR=0                 : MN+6<>MX)THEN 2100
150 REM          : 0101FF")              : 1090 GOSUB 2300           : 1570 MR=MN+3
160 REM          : 590 CALL CHAR(63,"000000000000 : 1100 FOR I=1 TO 33        : 1580 MC=RC(T,2)
170 REM          : 0000FF")              : 1110 CALL HCHAR(RC(I,1),RC : 1590 CALL GCHAR(RC(F,1),RC(F
180 REM          : 600 CALL CHAR(136,"1C1E7F7F3 : 1120 NEXT I               : 1600 IF CK<>136 THEN 2100
190 CALL CLEAR   : E1C1C1C")                : 1130 CALL VCHAR(12,16,96) : 1610 CALL GCHAR(MR,MC,CK)
200 DEF MN=((V1>V2)*V2*(-1)) : 610 FOR I=1 TO 8          : 1140 A#=STR$(PL)          : 1620 IF CK<>136 THEN 2100
+((V1<V2)*V1*(-1)) : 620 CALL COLOR(I,16,1)   : 1150 CALL HCHAR(5,4,32,3) : 1630 CALL GCHAR(RC(T,1),RC(T
210 DEF MX=((V1<V2)*V2*(-1)) : 630 NEXT I                : 1160 X=5                  : 1640 IF CK<>96 THEN 2100
+((V1>V2)*V1*(-1)) : 640 FOR I=9 TO 13        : 1170 Y=4                  : 1650 CALL HCHAR(RC(F,1),RC(F
220 DIM RC(33,2),PLS$(8,4) : 650 CALL COLOR(I,2,16)   : 1180 GOSUB 2510           : 1660 IF RC(F,2)=RC(T,2)THEN
230 FOR I=2 TO 8   : 660 NEXT I                : 1190 A#=STR$(PR)         : 1740
240 READ A,B      : 670 CALL COLOR(14,7,16)  : 1200 X=5                  : 1740
250 CALL COLOR(I,A,B) : 680 CALL CLEAR           : 1210 Y=23                 : 1670 FOR I=RC(F,2)TO RC(T,2)
260 NEXT I        : 690 CALL SCREEN(5)       : 1220 CALL HCHAR(5,23,32,3) : STEP SGN(RC(T,2)-RC(F,2))
270 DATA 7,7,14,14,5,5,8,1,8 : 700 FOR I=1 TO 12        : 1240 IF (FRR=1)*(PI=1)THEN ? : 1680 CALL GCHAR(RC(F,1),I,MC
,1,8,1,8,1      : 710 READ A,B,C,D         : 390                        : R)
280 CALL SCREEN(1) : 720 IF (I<5)+(I>8)THEN 750 : 1250 IF F88=1 THEN 2370   : 1690 CALL HCHAR(RC(F,1),I,13
290 FOR I=0 TO 8   : 730 CALL VCHAR(A,B,C,D)  : 1260 IF PL<8 THEN 1860    : 6)
300 FOR J=1 TO 4   : 740 GOTO 760             : 1270 CALL HCHAR(24,14,32,2) : 1700 CALL SOUND(-500,110*I,0
310 READ PLS$(I,J) : 750 CALL HCHAR(A,B,C,D)  : 1280 CALL HCHAR(24,20,32,2) : )
320 NEXT J        : 760 NEXT I               : 1290 T=0                  : 1710 CALL HCHAR(RC(F,1),I,MC
330 NEXT I        : 770 FOR I=12 TO 20        : 1300 X=24                 : R)
340 DATA JACKPOT!! YOU'RE THE : 780 CALL VCHAR(2,I,99,21) : 1310 Y=14                 : 1720 NEXT I
E,GREATEST,SUPER!! BUT LAST, : 790 NEXT I               : 1320 GOSUB 2550           : 1730 GOTO 1800
PEG NOT IN CENTER,EXPERT!! A : 800 FOR I=8 TO 16         : 1330 F=VAL(A#)            : 1740 FOR I=RC(F,1)TO RC(T,1)
MOST,THE,JACKPOT   : 810 CALL HCHAR(I,6,99,21) : 1340 IF F=99 THEN 1070    : STEP SGN(RC(T,1)-RC(F,1))
350 DATA PRO,PLAYER,STATUS," : 820 NEXT I               : 1350 IF F<>88 THEN 1400   : 1750 CALL GCHAR(I,RC(F,2),MC
",AVERAGE,PLAYER,LEVEL," ", : 830 FOR I=3 TO 21 STEP 3 : 1360 FRR=1                : R)
NOT,QUITE,AVERAGE,YET : 840 CALL HCHAR(I,14,97,5) : 1370 RESTORE 2860         : 1760 CALL HCHAR(I,RC(F,2),13
360 DATA GETTING,CLOSE,TO,AV : 850 NEXT I               : 1380 CALL HCHAR(24,14,32,2) : 6)
ERAGE,JACKPOT!! IF I CAN,DO : 860 FOR I=7 TO 25 STEP 3 : 1390 GOTO 1070            : 1770 CALL SOUND(-500,110*I,0
IT SO,CAN YOU!!    : 870 CALL VCHAR(10,I,98,5) : 1400 IF (F<1)+(F>33)THEN 210 : )
370 CALL HCHAR(1,1,40,256) : 880 NEXT I               : 0                          : 1780 CALL HCHAR(I,RC(F,2),MC
380 CALL HCHAR(9,1,48,256) : 890 FOR I=13 TO 19 STEP 3 : 1410 X=24                 : R)
390 CALL HCHAR(17,1,56,256) : 900 CALL VCHAR(4,I,98,17) : 1420 Y=20                 : 1790 NEXT I
400 A#="P E G J U M P" : 910 NEXT I               : 1430 GOSUB 2550           : 1800 CALL SOUND(-100,440,0,6
410 X=12           : 920 FOR I=9 TO 15 STEP 3 : 1440 T=VAL(A#)            : 60,4,880,10)
420 Y=10          : 930 CALL HCHAR(I,8,97,17) : 1450 IF MSG<>1 THEN 1470  : 1810 CALL HCHAR(RC(T,1),RC(T
430 GOSUB 2510     : 940 NEXT I               : 1460 GOSUB 2300           : 2,136)
440 GOSUB 2410     : 950 FOR I=1 TO 33        : 1470 IF (T<1)+(T>33)THEN 210 : 1820 CALL HCHAR(MR,MC,96)
450 CALL CLEAR     : 960 CALL HCHAR(RC(I,1)-1,RC : 0                          : 1830 PL=PL-1
460 A#="STAND BY PLEASE" : I,2)-1,I+99)            : 1480 V1=RC(F,2)           : 1840 PR=PR+1
470 X=12          : 970 NEXT I               : 1490 V2=RC(T,2)           : 1850 GOTO 1140
480 Y=7           : 980 A#="FROM: TO:"       : 1500 IF (RC(F,1)<>RC(T,1))+ : 1860 PLS=PL
490 GOSUB 2510     : 990 X=24                 : MN+6<>MX)THEN 1540       : 1870 IF PLS=1 THEN 1910
500 RESTORE 2690   : 1000 Y=9                 : 1510 MR=RC(F,1)          : 1880 CALL GCHAR(RC(17,1),RC(
510 FOR I=1 TO 33  : 1010 GOSUB 2510         : 1520 MC=MN+3             : 17,2),CK)
520 READ RC(I,1),RC(I,2) : 1020 RESTORE 2850       :
530 NEXT I         : 1030 FOR I=1 TO 4        :

```

1890 IF CK<>136 THEN 1910	2250 X=21	2550 A\$=""	2760 DATA 00000047C54545E7.0
1900 PLS=0	2260 A\$="MOVE"	2560 CALL HCHAR(X.Y,42+ZZZ)	0000042C64242E7,00000047C142
1910 FOR I=200 TO 800 STEP 2	2270 GOSUB 2510	2570 ZZZ=ABS(ZZZ-1)	44E7
00	2280 MSG=1	2580 CALL KEY(0,K,S)	2770 DATA 00000047C14741E7.0
1920 CALL SOUND(100,I,3)	2290 GOTO 1270	2590 IF (A\$="")+(K<>13) THEN	0000045C54741E1,00000047C447
1930 NEXT I	2300 FOR I=18 TO 21	2620	41E7
1940 FOR I=18 TO 21	2310 CALL HCHAR(I,2,32,7)	2600 CALL SOUND(50,660,0)	2780 DATA 00000044C44745E7.0
1950 CALL HCHAR(I,22,32,9)	2320 IF (F<>BB)*(F<>99) THEN	2610 RETURN	0000047C54141E1,00000047C547
1960 NEXT I	2340	2620 IF (S<>1)+(K<>48)+(K<>57)	45F7.00000047C54741E1
1970 FOR I=1 TO 4	2330 CALL HCHAR(I,22,32,9)	THEN 2560	2790 DATA 000000E7254585E7.0
1980 A\$=PLS\$(PLS,I)	2340 NEXT I	2630 CALL SOUND(50,660,0)	00000E2264282E7,000000E72142
1990 X=17+I	2350 MSG=0	2640 CALL HCHAR(X,Y,K)	84E7.000000E72147B1E7
2000 Y=22	2360 RETURN	2650 A\$=A\$&CHR\$(K)	2800 DATA 000000E5254781E1.0
2010 GOSUB 2510	2370 READ F,T	2660 Y=Y+1	00000E7244781E7,000000E42447
2020 NEXT I	2380 GOTO 1480	2670 IF LEN(A\$)<2 THEN 2560	85E7
2030 IF (F88<>1)*((PL<>1)+(C	2390 PLS=B	2680 RETURN	2810 DATA 000000E7254181E1.0
K<>136)) THEN 1270	2400 GOTO 1910	2690 DATA 3,13,3,16,3,19,6,1	00000E7254785E7,000000E72547
2040 F88=0	2410 CALL SOUND(400,131,3,16	3,6,16,6,19,9,7,9,10,9,13,9,	81E1
2050 GOSUB 2410	5,3,330,1)	14,9,19,9,22,9,25	2020 DATA 000000E725C525E7.0
2060 FOR I=18 TO 21	2420 CALL SOUND(400,196,3,26	2700 DATA 12,7,12,10,12,13,1	00000E226E222E7,000000E721E2
2070 CALL HCHAR(I,22,32,9)	2,3,330,1)	2,16,12,19,12,22,12,25,15,7,	24E7,000000E721E721E7
2080 NEXT I	2430 CALL SOUND(400,147,3,37	15,10,15,13,15,16,15,19,15,7	2830 DATA 1,12,94,9,7,6,94,2
2090 GOTO 1070	0,1)	2,15,25	1,17,6,92,21,23,12,92,9,8,5,
2100 CALL SOUND(1500,110,0)	2440 CALL SOUND(200,220,3,29	2710 DATA 18,13,18,16,18,19,	95,9,2,11,95,21,2,21,93,21,8
2110 A\$="FR:"&STR\$(F)	4,3,370,1)	21,13,21,16,21,19	,27,93,9
2120 X=18	2450 CALL SOUND(200,330,1)	2720 DATA FF01010101010101,F	2840 DATA 7,11,62,1,7,21,63,
2130 Y=2	2460 CALL SOUND(400,196,3,37	FB08080808080808,FF,8080808	1,17,11,90,1,17,21,91,1
2140 GOSUB 2510	0,1)	080808080,00000000000000FF,0	2850 DATA 3,4,PEGS,4,4,LEFT,
2150 CALL HCHAR(19,2,32,6)	2470 CALL SOUND(1600,247,1,2	101010101010101	3,23,PEGS,4,23,REMOVED
2160 IF T=0 THEN 2210	94,1,392,1)	2730 DATA 00183C7E7E3C18,000	2860 DATA 15,17,28,16,21,23,
2170 A\$="TO:"&STR\$(T)	2480 FOR I=1 TO 400	0003C,000008080808,00,000000	7,21,17,15,24,22,26,24,21,23
2180 X=19	2490 NEXT I	0206020207	,8,22,29,17,33,25,22,24,31,3
2190 Y=2	2500 RETURN	2740 DATA 000000701020407.0	3,18,30,4,16,33,25
2200 GOSUB 2510	2510 FOR Z=1 TO LEN(A\$)	000000701070107,000000050507	2870 DATA 6,18,24,26,13,11,2
2210 A\$="ILLEGAL"	2520 CALL HCHAR(X.Y+Z-1,ASC(0101,0000000704070107	6,12,18,6,27,13,16,18,3,11,1
2220 X=20	SEB\$(A\$,Z,1)))	2750 DATA 000000404070507.0	,3,18,6,13,11,10,12,3,11,12,
2230 Y=2	2530 NEXT Z	000705010101,000000070507050	10,5,17
2240 GOSUB 2510	2540 RETURN	7,0000000705070101	

```

- TI-Base - Guilford - Tony Kleen -
SET TALK OFF
* ----- *
* TIB900703.BOOT/CF *
* -----VJ----- *
* .....NOTE..... *
* *
* When we DO BAK050, one RETURN's to *
* the 1st directive of BOOT! *
* ----- *
* INITIALIZE *
CLEAR
CLEAR LOCAL
LOCAL C1 C 1
LOCAL TLDC C 1
LOCAL L0C C 2
LOCAL L6C C 2
LOCAL Z C 130
DO BAK002
* MAIN MENU *
WHILE (C1) "E"
CLEAR
WRITE 2,5 "TI-Base Report Writing"
WRITE 6,15 "Output will be to the"
WRITE 7,15 "-----"
WRITE 8,11 "P - Printer"
WRITE 9,11 "D - Database (ARTICLE)"
WRITE 11,11 "E - Exit"
WRITE 13,11 " - Selection?"
SET RECNUM OFF
SET HEADING OFF
SET SPACES=0
READCHAR 13,11 C1
IF (C1="P").OR.(C1="D")
REPLACE TLDC WITH C1
ELSE
IF (C1) "E"
WRITE 23,1 ;
"Invalid selection was attempted."
REPLACE C1 WITH "E"
DO BAK050
ELSE
SET SPACES=1
RETURN
ENDIF
ENDIF
IF (C1="D")
CLEAR
WRITE 2,4 " TI-Base Report Writing"
WRITE 7,16 "-----"
WRITE 8,11 "Y - YES"
WRITE 9,11 "N - NO"
WRITE 13,13 "-- Reset ARTICLE dbase?"
READCHAR 13,11 C1

```

Well, I think I've had enough of a sabbatical. I'm now ready to get back into my TI-Base presentations. I've got to tell you, that Dennis Faherty has certainly packed some punch into his latest release, 3.01. I've spent the last two weeks playing with it, and greatly improving my text presentation package. I told him during our last conversation how much I appreciated this latest enhancement. Atta' boy, Dennis!

What I will be presenting in the next several articles is a process that will take TIWriter files of 40 or 80 columns, combine them in various formats, and then write the final product to the printer or a database. If you've seen my articles before, you know that I like to put my 40-column command files to the left part of a page, and present an 80-column explanation of the command file to its immediate right. If you can't visualize what I'm saying, then just look at this page you're reading! NOW do you understand? ...Just being a little silly..

Anyway, the first thing one has to do is 'boot' the process. I bet you wonder what I call my 'boot' command file.. Good guess, BOOT. You'll notice the first thing is a SET TALK OFF, followed by a CLEAR screen directive. This is pretty standard for my boot'ing cf's. Also, I usually will SET the RECNUMBERING OFF, and then SET the HEADING line printing OFF. The next segment of initialization is to define our local variables, along with their initial values. Two of the local variables are assigned in a separate cf, called BAK002. The reason for this?? It's call planning ahead. Not everybody has the same printer command codes for 10 and 16 characters per inch. And, since I plan to package this process for anyone's use, I had better build some versatility into it. You'll later see a CUSTOMize command file that will step the user through customizing the printer codes, as well as RAMdisk customization.

I should also mention that little comment area. Part of my documentation is the date of the last update to this cf, the cf file's name, and what version number this is for the update date. As you can see, we are looking and the BOOT command file that is on its first version as of 90/07/03. That other note is just a reminder to me that upon return, I am always starting at SET TALK OFF. The reason for this?? I'll explain it later.. Normally, when one calls another command file, the next directive in the calling cf is executed upon RETURN'ing from the called cf. With 3.01 of TI-Base, you can 'trick' the operating system into always starting at the first directive by re'INSTALLING the BOOT cf into the 'install VDP' area. Actually, 'trick' probably isn't the proper term, 'destroying' the calling cf's pointer is more appropriate. Fortunately, TI-Base will default to the 1st line when 'destruction' has occurred. I've just touched the surface on 'INSTALL VDP'. I've got some install cf's to describe later.

Now then, into the 'meat' of this cf. Three menus are presented to the user. The first is to determine where one wants ones printout directed. Your options are the PIO printer device, or to a database called ARTICLE. If one selects the database, then you've presented the second menu, where one decides if the database needs 'resetting'. The third menu is where one determines what presentation format is to be used. The first menu is always presented; the remaining two are dependent upon your selections.

In the 1st menu, if one enters selection (E)xit, the cf will SET SPACES=1 and then return to the .DOT command line. At this point, if you want to execute another printer presentation, you need only enter BOOT at the command line. This is a feature of 3.01's macro enhancement.

In the 1st menu, if one enters an invalid selection, you are informed of the error of you way, then control is passed to BAK050. In the BAK050 cf, you will notice that only the last two directives are executed for a C1="E" val. What I do here is 're'INSTALL the BOOT cf into the VDP area, and then RETURN control back to .BOOT. Since I have reinstalled the cf, and in effect destroyed

The following is a direct, word-for-word reproduction of a recent IBM 'Service Support' announcement. (Really!)

ESD PRODUCT SERVICE SUPPORT
SUBJECT: NEW RETAIN TIP

Record number: H013944
Device: D/T8550
Model: M
Hit Count: UHC00000
Success Count: USC0000
Publication code: PC50
Tip key: 025
Date created: 089/02/14
Date last altered: 089/02/15
Owning B.U.: USA

Abstract: MOUSE BALLS NOW AVAILABLE AS FRU

Mouse balls are now available as a Field Replacement Unit (FRU). If a mouse fails to operate, or should perform erratically, it may be in need of a ball replacement. Because of the delicate nature of this procedure, replacement of mouse balls should be attempted by trained personnel only.

Before ordering, determine type of mouse balls required by examining the underside of each mouse. Domestic balls will be larger and harder than foreign balls. Ball removal procedures differ, depending upon manufacturer of the mouse. Foreign balls can be replaced using the pop-off method, and domestic balls replaced using the twist-off method. Mouse balls are not usually static sensitive, however excess handling can result in sudden discharge. Upon completion of ball replacement, the mouse may be used immediately.

It is recommended that each servicer have a pair of balls for maintaining optimum customer satisfaction and that any customer missing his balls should suspect local personnel of removing these necessary functional items.

P/N N33F8462 - Domestic Mouse Balls
P/N N33F8461 - Foreign Mouse Balls

SAS Keywords:
PSY2 8525SYSMISC 8530SYSMISC 8550SYSMISC
8560SYSMISC 8570SYSMISC 8580STSMISC

ESD PRODUCT SERVICE SUPPORT, BOCA RATON, FL.