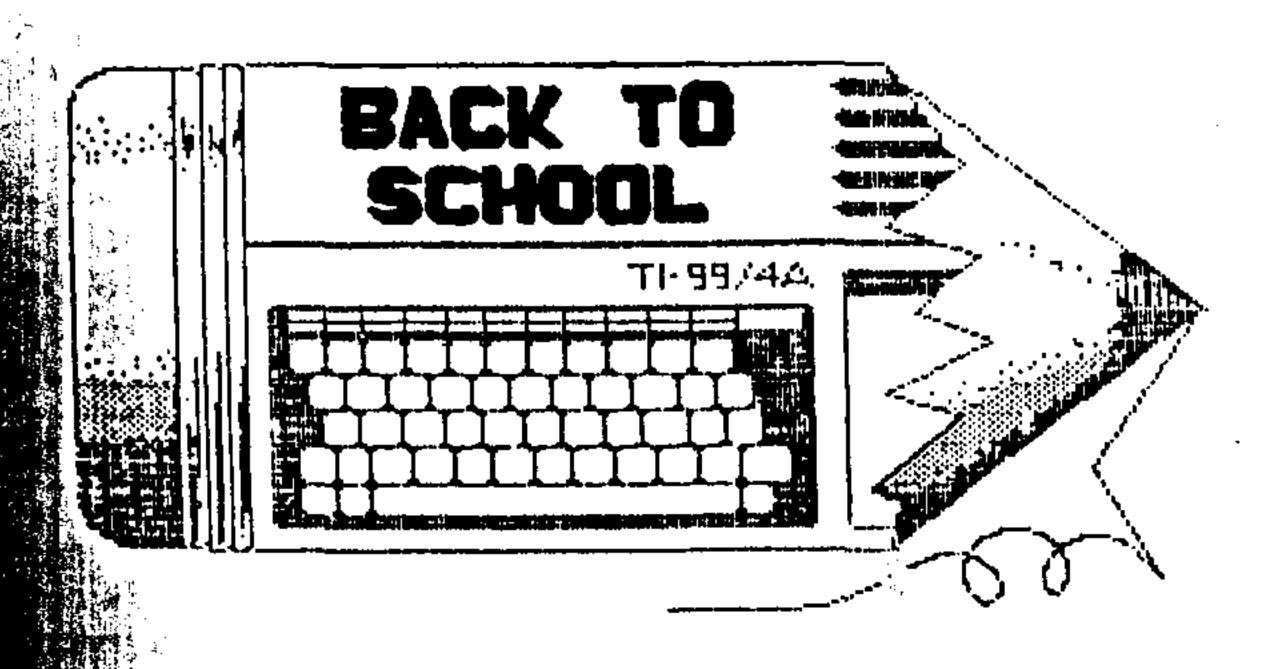
Texas Instrument 99/4A and Myarc 9640 Computers

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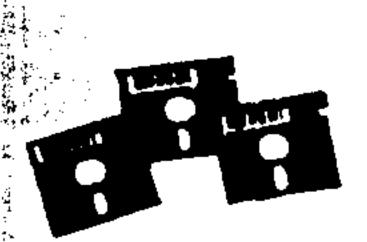


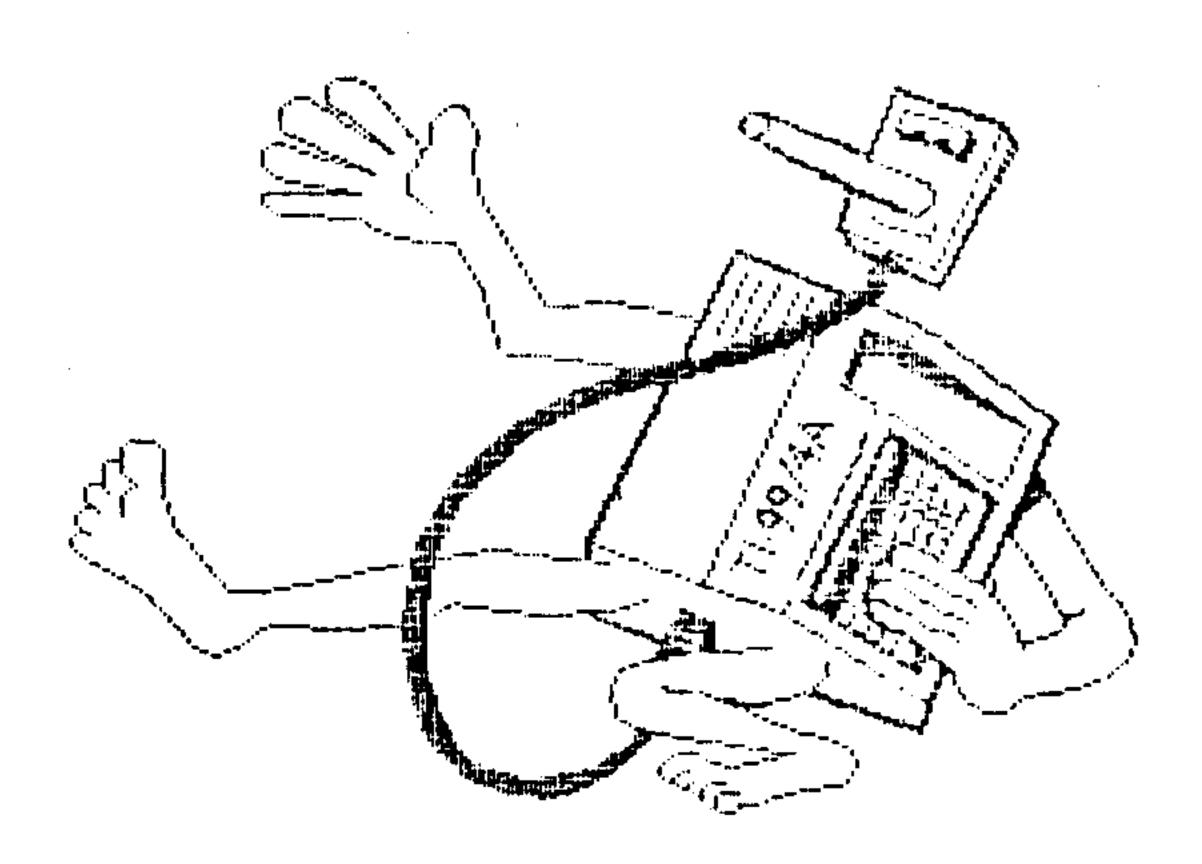
THE OFFICIAL NEWSLETTER OF THE CENTRAL OHIO NINETY-NINERS INC.

PUBLISHED MONTHLY IN COLUMBUS OHIO









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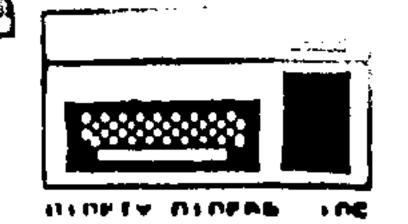
VOL.7

NO.9

SEP

1989

THE OFFICER SECRETARY OF CONTRACT ORGAN SECRETARY OF THE PROPERTY.



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Spirit of 99 is published monthly for
Central Ohio NinetyNiners Inc. by C.O.
N.N.I. members and
is the official news
letter of C.O.N.N.I.
User Group.

Editorial, advertising and subscription address is: 181 HEISCHMAN AVE WORTHINGTON, OH 43085

Subscription rate (USA) \$20.00 /1 year (12 issues). Foreign subscription rates available upon request. Third class postage paid at Columbus, Ohio.

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

literacy. C.O.N.N.I. meetings are held the 2nd Sat -urday of each month at the Martin Janis Senior Center - East Eleventh Ave. at the State fair-Ohio grounds.Meeting time is at 9 am. Meetings are open to the public. Membership dues (\$28.00) are payable yearly to C.O.N.N.I. and cover the immediate family of the member, (An application has been placed in this newsletter
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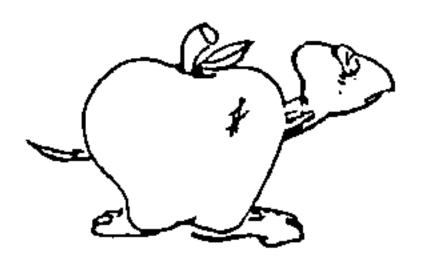
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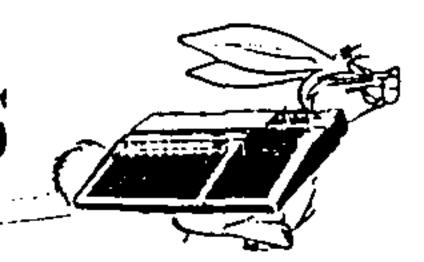
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TREASURER.....MIKE CHANEY

LIBRARIAN......CHUCK GRIMES



DON'T BE SLOW-PAY YOUR DUES



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

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

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

Everett Wade

179 Erie Rd

Columbus, OH 43214

9 AM LIBRARIES OPEN
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REGISTRATION - MEMBERSHIP
MICROpendium magazines
for sale
{DOS SIG}
and other SIG GROUPS OF

10:20 AM DEMONSTRATIONS:



9:25 AM QUESTION AND ANSWER SESSION

INTEREST TO MEMBERS

9:50 AM BUSINESS MEETING

12:00 PM WE MUST BE OUT OF THE BUILDING BY NOON!!!!!

SHOALS 99ERS NL JOHN NIHOF RN PETER KRAUS RN EDWARD L. EDWARDS RN

SEP - BEERY'S

HOPE TO SEE YOU THERE!!

SPIRIT OF 99 SEP. 1989 PAGE 3



FROM THE PRESIDENT'S DESK By Dick Beery

After a month off, I find that there are a lot of things that deserve mention. Here goes!

Fairs and Exhibitions: On Sept. 16th, CONNI will be demonstrating programs and making our presence known at a multi-computer show at the Aladdin Temple on Steltzer Rd, along with Atari, IBM and other types of computers. On the same date, the TI International Expo 89 will take place in Alexandria, VA. The annual Chicago and Milwaukee TI Faires will take place on November 4th and 5th. Our SysOp and former president, Irwin Hott, has been urged to present a program on using speech at a show being held at the Olean Center Mall, Olean, NY, on November 11th. CONNI has been invited to set up a table there. For more details on the Alexandria and Chicago-area events see the August Micropendium.

<u>Products: Where to begin? Among Fairware products one can find Mike</u> Maksimik's fine F-DOS, which he will demonstrate at the Chicago Faire. I showed this at the August evening meeting of CONNI, and it was well-received. Also, for graphics, see <6>, an excellent and not difficult graphics program that can produce excellent demonstrations for use at fairs and exhibitions, including animation. <u>Tips</u> is another graphics program that produces greeting cards and a number of other formats. Pix, by Jim Reiss, according to the documentation "implements a new 99/4A-specific compact color and two-tone picture storage format (that is)...typically faster and more compact than RLE for two-color pictures, and the format stores the two colors involved, unlike RLE." Commercial products include Sprite Builder, which produces magnified sprites, <u>Genproq</u>, a program development package for the 9640 by Paul Charlton, a <u>Printers Apprentice</u> version for MDOS, a Personal Home Auditor Accounting System by Bill Gaskill, Music Pro from Asgard, a music editor that permits the user to type notes directly on the staff, a history/graphics package also from Asgard, titled Disk of Pirates, etc. Apologies to the producer of any I may have slighted from either category. Will try to play catch-up next month.

<u>Projects:</u> Curt Borders, our publications librarian, would like to maintain a complete file of the <u>Spirit of '99</u> newsletters. A list of issues needed appears elsewhere in this issue. Won't you help? Also, we plan to include advertising space in the newsletter to notify members and others of TI, 9640 and compatible hardware and software for sale.

<u>Places:</u> Our August meeting location at Chemical Abstracts was apparently well liked. The facilities, and equipment as desired, were provided free of charge. A friendly and dedicated staff gave us much help and support. Thanks, Charles Rolle and Rick Prudhomme! Ample free parking and a beautiful building and grounds completed the experience.

In September, we will be back at the Martin Janis Center, once again on the SECOND Saturday. See you there!

C.O.N.N.I. Minutes Wed.6/28/89

The meeting was opened at 7:30 P.M. with the introduction of visitors Don Kroner and Dave Suke who are opening a new retail business in Westerville devoted entirely to the used computer market. After the introductions the question and answer period began. At 8:45 Dick Beery asked for volunteers for future demos. At 8:50 the raffle was held. At 9:00 P.M. a discussion of the Lima Fair began and the possibility of that event not being held next year was mentioned. The Disk of the announced by Chuck Grimes. Dick Beery talked about Month was alternative sites for the August Saturday meeting stating that Chemical Abstracts was a possibility. At 9:30 Karl Romstedt Demoed his assembly load programs and at 9:50 Jean Hall demoved Jiffy Flyer. After the demos Dick Beery read a letter from the Lima users group on how to setup a computer fair. Bill Wood announced a source of inexpensive DSDD disk drives. At 10:10 the meeting was adjourned.

07/08/89



The Saturday meeting was called to order by President Dick Beery at 9:30 A.M. with the start of the question and answer period during which technical and programming questions were fielded. A phone line problem that CONNI Sysop Irwin Hott is having with the club BBS was discussed.

New business was brought forward at 10:00 A.M. and Dick Beery mentioned the possibility of increasing contact with other TI99/4A groups in the state, i.e. setting up a CONNI booth at malls in other towns in Ohio. The possibility of using the Chemical Abstract facility for the August meeting was announced with the fact that that particular meeting may be pushed back to the 3rd. Saturday due to scheduling problems. Dill Wood shared a source for inexpensive dick drives. A show of hands was requested for a possible field trip to OLC after one of the Sat. meetings in the future, some interest was noted.

The contents of the July Disk of the Month was read by Disk Librarian Chuck Grimes. Then the possibility of starting programs to interest youngsters in the club was talked about. Two large TI conventions to be held in September in Washington DC and also Denver CO were announced. The proposed inclusion of a DOS SIG for other types of machines was put before the club with the decision that it would be open to all.

At 11:00 A.M. Tom Roberts gave a Demo of programs he has written in Fortran. Meeting adjourned at 11:30 A.M.

Respectfully Submitted Charles Osment, Secretary

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THE PROBLEM WITH PRINTERS by Jim Peterson



When a program is written on one TI-99/4A console, it's a pretty sure bet that it will run on any other TI-99/4A console - unless the programmer has used some of the special features of the CorComp Disk Controller, Super Extended Basic, or whatever. But when a programmer writes a program to output to his own printer, it is by no means certain that it will work with your printer. As far as printer compatibility is concerned, it's a jungle out there. Anarchy, chaos and total confusion!

To begin with, if the printer has a parallel port it must be opened with "PID", otherwise with "RS232" followed by the baud rate — or something else again for AXIOM. And you may have to add .LF to suppress line feeds or .CR to suppress carriage returns. Next, its output and its response to control codes is partly controlled by those idiotic, microscopic, inaccessible, fragile—looking inventions of the devil called dip switches. And finally, the output is mostly controlled by the printer control codes in the program itself.

Somewhere among the thousands of publications on computers, someone must have written a comprehensive guide to writing and modifying software for printer compatibility. If anyone knows of such, please tell me! I have read literally thousands of user group newsletters over the past several years, and have seen many mentions of "fixes" to various problems, but never a detailed article. I have called printer manufacturers, and they have been most helpful in suggesting that I buy one of their expensive manuals for each of their models. I have talked to programmers with much more experience in writing printer programs than I have, and they tell me it is very difficult, even with the manual at hand, to modify a program for a particular printer without having access to that printer for testing.

I have no experience in programming for any printer other than my trusty old Gemini 10%, and my few attempts to modify programs for other printers have mostly ended in failure. However, I have borrowed several manuals and attempted to chart the differences. I had hoped to compile and publish a complete conversion chart, until I realized the complexity of the problem. Anyway, perhaps I can pass on a few tips to programmers, to help them make their programs as widely compatible as possible, and possibly I can give users a little bit of guidance to help in modifying programs to suit their printer.

In the following, in order to be brief, I have mentioned control code sequences by their ASCII numbers, such as 27 66 1. This would be programmed as CHR\$(27); CHR\$(66); CHR\$(1) or, since ASCII 66 is within the printable range, it might be CHR\$(27) "B"CHR\$(1). 27 77 n means that for n you substitute an ASCII, within an allowable range, according to what you want to accomplish.

There seem to have been four systems of printer control codes used with the printers commonly found in the TI world - Epson, Micronics, Axiom, and Okidata. The Micronics people tell me that they "used the Micronics emulation until the introduction of the current NX series, when they switched to the IBM emulation". The IBM emulation appears to be the same as the Epson mode except that it has a different set of special character symbols - in fact, many current Epson-compatibles have an optional IBM mode.

The Micronics mode and the Epson mode are quite similar, although with aggravating differences. Okidata and Axiom are way out in left field. Since Micronics, Epson and Panasonic (which is basically Epson-compatible) seem to be by far the most popular in the TI community, and most software is written for them, it might be wise to avoid the Okidata. I have also seen mention of problems with Diablo and Centronics, but I have no information on those.

Any of the ASCII from 0 to 127 can be used as a printer control code. If the ASCII is above 31, it must be preceded by ASCII 27, known as the escape code, which is universally used to alert the printer that the following ASCII codes are to be interpreted as controls rather than printed as characters. If the printer recognizes an ASCII below 31, or one or more ASCII immediately following ASCII 27, as a valid control code, it acts upon them but does not print them. This is why, if you insert "control U" codes in a line of text, the text will be shifted left. However, if the codes are not recognized as valid, the ASCII below 32 or above 126 are printed as a blank space, the others are printed as the character they represent. This is why that puzzling E, G, S or whatever shows up on the first line of a printout, if a program is not compatible with your printer.

Some printer commands require a sequence of three or more ASCII codes, of which the first is 27, the second could be anything above 31 and the remainder could be anything at all. If your printer does not recognize the second ASCII as valid, but then comes to an ASCII below 31 which it does recognize, it acts on that ASCII as if it was a single command - which is why your printer sometimes "goes crazy".

The ASCII below 27 are quite standardized, and many of them have names, such as BEL for 7 (activates buzzer) which are also commonly used in telecommunications. ASCII 10 (line feed), 12 (advance to next top of form) and 13 (carriage return) seem to be universally recognized. For some reason, Panasonic owners seem to have trouble with line feeds when running programs written for other printers.

ASCII below 27 are not preceded by the escape code 27. Some printers will optionally recognize 14 (double width for one line) and 15 (cancel 14) preceded by 27, but programmers should avoid this since other printers will treat the 27 as a blank space. The NX-10 recognizes 27 10 as a command to reverse the paper one line and 27 12 to reverse to top of page.

The escape code 27 can be input from the TI-99/4A keyboard by depressing the CTRL key and the period key together - the actual ASCII is 155 but printers, other than the Axiom, will accept it as 27. This is handy when opening the printer in immediate mode or writing a routine for your own use, but should be avoided in programs being distributed because the character prints out as a blank space which will probably confuse anyone trying to modify the program.

I have studied the manuals, and attempted to chart some of the codes, for the Gemini 10X, SG-10 and Star NX-10; Epson FX-80, FX-85/185 and its IBM mode; Panasonic KX-P1080; MX Graftrax Plus; Brother M-1009; Seikosha 550A or 550TI by Axiom; and Okidata (model unknown). Due to differences in terminology, it is not easy to relate them to each other.

The IBM mode of the Epson FX-85 seems to be entirely compatible with its Epson mode except that it lacks some features. The FX-80 seems to be entirely compatible with the FX-85 except lacking NLO and a few specialized codes (and I

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did not get into comparing graphics capabilities of any of these printers). The Brother M-1009 is also apparently highly compatible. The MX Graftrax Plus, another Epson model, is entirely compatible but lacks some features (no graphics capability?). The Panasonic KX-P1080 is very compatible but also has several unique codes of its own for setting tabs and spacing, etc. The Star NX-10 also seems to be in complete agreement with the FX-85, but with some additional codes for unique features such as reversed paper feed. I would guess that in actual practice these may not be as compatible as they seem. And of course, any maker's newer or more expensive models have additional codes for features not found on older or cheaper models.

The Seikosha 550A or 550TI, made by Axiom, recognizes a few of the common codes between ASCII 7 and 14, but from there on it has entirely its own system of codes; many of these same codes are used by Epson/Micronics for entirely different purposes, so running a program written for either on the opposite printer can be guaranteed to produce pure garbage. Okidata likewise recognizes a few of the low codes and then goes into its own system, frequently in direct conflict with the Epson standard; due to the terminology used in its manual, I am not sure what some of them do.

The Gemini 10X, made by Star Micronics, has long been superseded by newer models, but stocks are still being sold by discounters. It has been a sturdy workhorse, long popular with TI owners, and a great many programs have been written using its printer control codes. These are 90% compatible with Epson—but that other 10% causes a great deal of trouble. The differences are described below. The Star SG-10/15 was a transitional hybrid, switchable by dip switch 2-2 between the Micronics mode and the IBM mode. The Micronics mode is completely compatible with the Gemini 10X (except for download characters) and with some additional features — NLQ and proportional printing, and a slashed zero option. The IBM mode seems to be very compatible with the Epson standard. This printer was superseded by the Star NX-10, which is again Epson compatible.

A major incompatibility between programs written for the Gemini 10X or SG-10, and Epson-compatible printers, is that Micronics recognizes 27 66 1 to select pica, 27 66 2 to select elite and 27 66 3 for compressed, and on the SG-10 also 27 66 4 to select NLG and 27 66 5 to cancel it. On Epson/IBM printers, 27 66 is the beginning of a series of codes used to set vertical tabs. Actually, since pica is the default, there is no need to program for it except to cancel condensed print, for which purpose 18 is recognized by both Micronics and Epson. (Avoid using 27 80 to return to pica because Micronics does not understand it and might misinterpret it to change default tabs.) Similarly, 15 will select condensed print on both the Micronics and Epson. Unfortunately, there is no compatible code for elite; Epsons use 27 77 to select elite, but 27 77 n is used by the 10X, SG-10 to set the left margin n spaces, so that misinterpreting these codes can be catastrophic! The Epsons use 27 108 n to set the left margin, but this is not recognized by Micronics.

The other major difference is 27 51 n which sets the line feed to n/144" on the 10X and on the SG-10 in Star mode, but to n/216" on Epson compatibles and on the SG-10 in IBM mode. The "fix" here is to multiply the value of n by 1.5 when running a Micronics program on an Epson printer. The same applies to 27 74 n which sets a one-time line feed of n/144" or n/216".

Micronics uses 27 82 n to set the margin at the top of the page, but Epson recognizes this as a command to switch to one of the international character

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sets, which can produce some interesting results. The Epsons use 27 114 n to set the top margin, but Micronics doesn't know this one. Micronics uses 27 55 n to select an international character set, but the Epson will read 27 55 as a comand to cancel 27 54 which selected a special character set. I'm not sure what that means, but the results will surely be undesirable.

There may also be a conflict between the Micronics 27 98 n, which performs a one-time tab of n columns, and the Epson 27 998 n n O, which "sets vertical tabs in channel", whatever that means.

Several codes, common to both Epson and Micronics, use 1 as the 3rd ASCII to turn on a feature and 0 to cancel it. For instance, 27 87 1 turns on double width (expanded) print and 27 87 0 cancels it. Also, subscript is selected by 27 83 1 and superscript by 27 83 0. Some of the Epson/IBM compatibles will accept either an ASCII or numeric 0 or 1 (i.e., "1" or CHR\$(1)) for that third code, for which reason you will often see program coding such as CHR\$(27);"W1". These should be avoided when programming for general distribution, because the older Micronics recognize only the ASCII. If I understand my notes from the manual correctly, the Panasonic KX-P1080 also accept ASCII 129 or 177 in lieu of ASCII 49 or "1" and ASCII 128 or 176 in lieu of 48 for "0" !

According to the manuals, ASCII 141 can be substituted for ASCII 13 on the Brother M-1009, and ASCII codes 128 to 255 can be substituted for 0 to 127, respectively, on the Epson - but there seems to be no good reason to confuse the other printers by using those!

Different printers also have different sets of symbols in ASCII 160-254. The Gemini 10X and SG-10 in Star mode has one set, the SG-10 in IBM mode has an entirely different set which I presume is also on the Epson in IBM mode, and I think that the Epson has still a different set. This causes problems when running some banner or graphing programs which access these characters. Different printers also vary in the number of international character sets available and the sequence of their access codes.

I have never gotten involved in graphics printing, and I failed to chart all the graphics codes when I had borrowed manuals available, so I cannot comment on compatibility here. I have not heard of any problems except that some Axiom models are apparently incapable of graphics, and there is also sometimes a problem with thin white horizontal lines through the picture — possibly because of the n/144" and n/216" difference in line spacing between Micronics and Epson?

With downloadable characters, we find another jungle which I'm not too anxious to explore. The Gemini 10X has a quite simple and efficient method, and I once published in Micropendium a DOWNCHAR program to design these characters on screen, dump them to the printer for editing, and save them to disk. I have also written a routine which will convert a sequence of any length of standard or reidentified screen characters into a D/V 80 file of download character printer codes.

But, here the SG-10 Star mode departs from compatibility with the 10X. Its system offers much greater capabilities but is also quite complex and entirely different. I tried, and failed, to convert my routine for use on the Epson FX-B5; its system is somewhat similar to that of the SG-10 but again different. I am told that the Epson RX-BO does not support downloadable characters, the

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LX-80 only allows 6 and some Panasonics only allow 40 of them. I have seen an article describing a method of creating downloadable NLO characters but unfortunately the name of the printer being used was not mentioned.

This article is obviously incomplete and probably inaccurate. Perhaps it will inspire someone to write something better. In the meantime, programmers could help out a great deal by putting REMs in their programs giving the name of the printer they are writing for, and REMs after every printer control command indicating its purpose. I regret that I have not been in the habit of doing that!

SPIRIT OF 99 NEWSLETTERS FOR LIBRARY

The Newsletter Librarian, Curt Borders, would like to have a complete set of our newsletter - SPIRIT OF 99 - in the Newsletter Exchange Library. He has already donated all of his copies of the newsletter to the library. Jean Hall has indexed all but 3 issues of the newsletters and will donated a hard copy to the NL Library and a disk copy to the Disk Library for members use when the indexing is completed.

Below is a list of the Spirit of 99 newsletters needed to make a full set. If you have any of the needed newsletters and are willing to donate your issue or a copy of any of the needed issues, please give your newsletter(s) to Curt Borders at the next C.D.N.N.I. meeting.

ISSUE NEEDED		ISSUE NEEDED	
1982 VOL 1 NO.	1	1984 FEB	
1983 VOL 1 NO.	2	1984 MAR	TEACHER
1983 VOL 1 NO.	4	1984 APR	
1983 VOL 1 NO.	5	1984 MAY	TEACHER
1983 VOL 1 NO.	7	1984 JUN	
1983 VOL 1 NO.	9	1984 AUG	
1983 VOL 1 NO.	10	1984 OCT	
1983 VOL 1 NO.	11	1984 DEC	
1703 YOL 1 NO.	12	1985 MAR	

THE MONTH PROGRAM OF AUGUST BOB



Thanks to the author and the BUG NEWS May 1989 for the following programs.

The program this month is a Fortune Teller program. We are using this in conjunction with the tips for the month. You can use your own Data or add to the data. Just remember that if you add more data you must also change the DIM SECOND\$(12) to agree with the number of data statements.

Basic Version

100 REM FORTUNE TELLER 110 REM IN TI-BASIC 120 REM BY R.W.AUGUST 130 RANDOMIZE 140 DIM SECOND\$(12) 150 CALL CLEAR 160 PRINT TAB(6); "< FORTUNE-TELLER >":::::::::: 180 FOR X=1 TO 5 190 READ FIRST\$(X) 200 NEXT X 210 RESTORE 450 220 FOR X=1 TO 12 230 READ SECOND\$(X) 100 ! FORTUNE TELLER 240 NEXT X 250 REM Data now loaded

300 IF N=FN THEN 290 X 310 PRINT TAB(6); "< FORTUNE- 130 RESTORE 210 :: FOR X=1 T TELLER >":::::"HELLO "; NAME O 12 :: READ SECOND\$(X):: NE 1 IF X=7 THEN PRINT SEG\$(A\$, **\$;** "; FIRST\$(N) 330 N=INT(RND*12)+1

270 INPUT "":NAME\$

320 FN=N

name"::

340 IF N=SN THEN 330

340 SN=N

370 PRINT "Would you like an

other":: "Fortune told. (Y/N) T\$(N):: FN=N

380 CALL KEY(0,K,S 390 IF (K=89)+(K=121)THEN 28 EN 160 ELSE DISPLAY AT(16,1)

400 IF (K<>78)*(K<>110)THEN 380

410 CALL CLEAR

420 STOP

430 REM Data listed below 440 DATA TODAY, TOMORROW, NEXT WEEK, NEXT YEAR, SOMEDAY 450 DATA "YOU WILL RECEIVE A AMOUNT OF MONEY"," LARGE YOU WILL BECOME ILL" 460 DATA "YOU WILL MEET THE PERSON OF YOUR DREAMS", "YOU LARGE WILL LOSE YOUR BEST FRIE ND"

470 DATA "YOU WILL GET MARRI ED", "YOU WILL HAVE AN ACCIDE WILL LOSE YOUR BEST NT"

480 DATA "YOU WILL GO TO THE HOSPITAL","YOU WILL TRAVEL ABROAD"

490 DATA "EVERYTHING IS ROSE S", "YOU WILL GET A PROMOTION

500 DATA "YOU ARE GOING TO G 170 RESTORE 440 ET A RAISE", "SOMEONE WILL EN TER YOUR LIFE"

Extended Basic Version

IN TI-EXTENDED BASIC BY R.W. AUGUST

260 PRINT "Please enter your 110 RANDOMIZE :: DIM SECOND\$ (12):: DISPLAY AT(6,6) ERASE ALL: "<FORTUNE-TELLER >" 280 CALL CLEAR 120 RESTORE 200 :: FOR X=1 T 1WAVE (A version of John O 5 :: READ FIRST\$(X):: NEXT 290 N=INT(RND*5)+1

140 DISPLAY AT(14,1): "Please

enter your name" :: ACCEPT AT (16,1) BEEP: NAME\$ 350 PRINT :SECOND\$(N)::::: 150 N=INT(RND*5)+1 :: IF N=F

N THEN 150 ELSE DISPLAY AT (1 4.1): "HELLO "; NAME\$; " "; FIRS Exit the program with FCTN 4

160 DISPLAY AT(17,1):"" :: N =INT(RND*12)+1 :: IF N=SN TH :SECOND\$(N):: SN=N

170 DISPLAY AT(21,1): "Would you like another": :"Fortune told. (Y/N)"

180 CALL KEY(0,K,5):: IF K=8 9 OR K=110 THEN 150 ELSE IF K<>78 AND K<>110 THEN 180 ::

CALL CLEAR :: STOP 190 ! Date listed below 200 DATA TODAY, TOMORROW, NEXT

WEEK, NEXT YEAR, SOMEDAY 210 DATA "YOU WILL RECEIVE A AMOUNT OF MONEY"," YOU WILL BECOME ILL"

220 DATA "YOU WILL MEET THE PERSON OF YOUR DREAMS", "YOU ND"

230 DATA "YOU WILL GET MARRI ED", "YOU WILL HAVE AN ACCIDE NT"

240 DATA "YOU WILL GO TO THE HOSPITAL", "YOU WILL TRAVEL ABROAD"

250 DATA "EVERYTHING IS ROSE S", "YOU WILL GET A PROMOTION

260 DATA "YOU ARE GOING TO G ET A RAISE", "SOMEONE WILL EN TER YOUR LIFE"

ONE LINERS by John Martin

Thanks TRI VALLEY Newsletter

----- Willforth's WAVE POWER program)

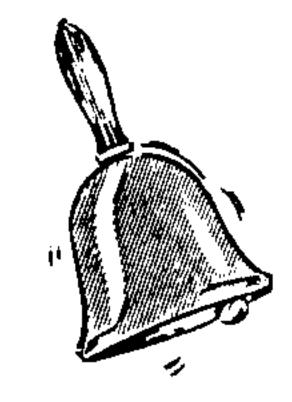
N+1,28):: N=(N+ABS(N<23))#ABS(N(23):: GOTO 1 ELSE CALL C HAR(X+96,RPT\$("0",14-(X)*2)&"FFFF"):: A\$=RPT\$(" abcdefed cba",5):: X=X+1 :: GOTO 1 !

TIPS AND TRICKS by Charles Osment

Shortcuts in computing garnered from various TI99/4A user groups newsletters around the country. All information here is available from opur Newsletter Exchange Library. (See Curt Borders at one of the meetings or call him before a meeting and request a certain issue).

- Want a free ride to level 3 of Parsec? Try this: a. Crash one ship before firing. b. Work up to Bynites. c. Crash after each Bynite. d. Push Redo before the game ends. e. Crash one ship before firing e. After Swoopers come Killer Satellites. g. Now you're at level 3.
- 2. FCTN 4 too far to stretch your fingers? Try this! Hold down at the same time FCTN J and the spacebar.
- 3. Bells

100 For X=1 TO 4 110 FOR C=0 TO 7 120 CALL SOUND(-500,6000,C ,4000,C,2000,C) 130 NEXT C::NEXT X::END



CHERRIO

BEGINNER TIPS by Jean Hall

You have turned on your PEB, TV/Monitor, and console and inserted your Funnelweb disk in drive 1 so you can use TI-WRITER.

Press number 2 for Extended Basic.

Next, press 1 for EDITOR. When the command line appears, you type in LF for LoadFile and insert the correct drive number and the correct filename and press ENTER.

Whoops!! What's that????? IO ERROR CODE 02.

Check to see if you have put the correct disk in the drive you are using and that it has the correct filename on the disk you inserted.

What if you get an IO ERROR CODE 06.

Check to see if you closed the drive door or put the disk in upside down.

Have fun with your TI!!! <ME>

FUN IN THE GAME ROOM by DAVID TRUESDALE II

THE MAZE OF GROG The object of the game is to guide Woodstock through a maze of tunnels and pitfalls to rescue his girlfriend Penelope from the stomach of Grog.

The first thing I would recommend is that you print out the docs to this game. They are very well written and a bit humorous.

Each level is divided into three sections. The top section is sort of where you practice flying and obtaining food and prizes. Remember to check your energy level every now and then or you'll run out before you know it. The number one thing you want to do in this section is to get what is called a SNOOZE DART. Not only do you get 350 points for this but you can't get past Grog in the second section without it. If you forget to get this and you make it into the second section you can't go back and get it. Also, the secret transporter is around in this area but I'm not telling where it is or how to reach it. (The author didn't want to and I don't want to give away the secret.)

The second section is where Grog hangs out. You have to really watch it in this section. There are alot of pits to fall in, and as you know the only way out is to one of the locked doors to slam poor little Woodstock into the wall and start again at the top of this section. If you have to do this, try to remember

your mistake and don't duplicate it. Again, don't forget to check your energy and keep it up with all the Ham hocks and Perrier you can find. The food supply gets harder to find the farther you go down.

When you finally come face to face with Grog you should stand there in front of his nose and Woodstock will stick him with the SNOOZE DART. If you don't have this and you try to go by him while he is awake he will squash Woodstock like a bug and the game ends. If you stick him with the dart you can then proceed safely under his feet and advance to the third or bottom section.

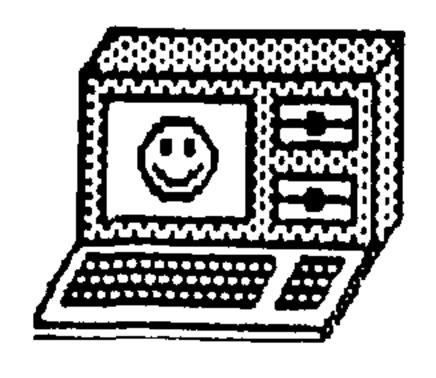
Remember, get all the energy you can built up in this section. Food is sparse in the bottom section and you use up alot of energy flying from platform to platform.

After you get through the second section and enter the third or bottom section the fun really begins. You do alot more flying in this section. Food is sparse so hopefully you built up alot of energy. Penelope is locked away behind five locks. As you know, Woodstock can only carry one key at a time. You have to have him find a key, then travel to the top and over and unlock it. Then you lose the key and you must go back and repeat this process. Now you know why he must have alot of energy saved up.

Once you rescue Penelope you get 5000 points for each level you advanced and additional points for each life Woodstock has left. Then you get to do all this again.

Another thing to remember as you pick up GOLD BEATLES, MING VASES, and even MAGIC KEYS, you not only gain points but you lose 20 energy units per piece. This can help your score but hurt you when you reach the bottom of the maze.

This game is very challenging, and very addictive. Once you play this game a few times and develop a pattern you should be able to play this till your eyes fall out. By the way, so far my console and rave keybord haven't burned out playing this game. I think Ray just had a bad day. So if you can possibly afford it, sent five bucks to Ray Kazmer, 13225 Azores Ave., Sylmar CA, 91342 so he can buy a new console.



PAGE 13

FOUR-A/TALK

Random ramblings about things TI.

by Bill Gaskill

August 1989

A HOT SUMMER IN THE 99/4A and 9640 COMMUNITY

(Thanks to THE FRONT RANGER, Aug 1989)

WHAT'S HOT:

PPDNU (Page Pro Device Name Utility), COLUMNTEXT, TI-SORT and THE BUGGER.

DISCOVERIES:

-Inscebot Inc. has released the commerical version of TI-SORT. It contains all of the features mentioned in a previous Four-A/Talk column, but now has some of the neatest "windows" you have ever seen for on-screen help. It loads quickly and has performed flawlessly. If you don't have it, you WILL want it. The program sorts almost any kind of file, in ascending or descending order, by multiple fields. It also makes sorting TI-Base files a "dream". Grab it! For \$14.95 plus \$2.50 shipping and handling, you can't go wrong.

> INSCEBOT INC. P.O. BOX 291610 PORT ORANGE, FL 32029

-Richard W. Lauhead, a member of the Minneapolis/St. Paul 99ers, has written a neat assembly language coded utility to convert disk/path names on a floppy or ram disk to other paths/names. The program was originally written to convert Ed Johnson's Page Pro 99 so that it would run from a hard drive, but according to the author, the progam will work on any application, not just Page Pro. The utility may be ordered from Richard or downloaded from GEnie and probably the other major on-line information services by now. The program is not Fairware, but Richard wouldn't turn down any donations that you care to send. Here's a short explanation of the program from him:

"Page Pro 99 Device Name Utility is a utility program I wrote to convert all the device names on the Page Pro example disk from DSK1 to WDS1.PAGEPRO (the directory on my hard disk where I put all the examples). This allowed me to load all the example pages without getting I/O errors, or having to use the method detailed in the manual for getting around this problem. I also used it on the three program files to convert all the default DSK1 prompts to WDS1.PAGEPRO prompts. The utility is really very simple. It reads each sector of the disk on the drive you specify and searches for the string DSK1. If it finds the string, it replaces it with the device name you specify, and corrects the device/file length byte. The program uses low level disk controller sector read/write routines. It has been tested on a CorComp controller on the Geneve, a Horizon RAM disk on the Geneve and a TI controller on the TI99/4A, but it should work on any controller. It has not been tested on the had disk controller."

Richard's address is:

Richard W. Lauhead 3985 Clover Ave

St. Paul, MN 55127

-Ron Prewitt, a member of the Tacoma 99ers, has released version 4.1 of Columntext and version 3.1 of Margintext. Both are companion programs designed to produce columnized output of DV/80 files. Both programs are menu driven and almost don't need any documentation to figure out. If you want to spruce up the appearance of your newsletter, this may be the package for you. Ron ask a paltry \$5.00 for his efforts. You may write to him at:

Ron Prewitt 6429 South Fife Tacoma, WA 98409

-Mike McCasline has compiled a listing of over 200 TI-99 bulletin Board Systems around the country. I dont't know if Mike is interested in sharing the list or not, but a couple of dollars might help sway him if you are interested. Mike's address is:

Mike McCasline Box 885 Monrovia, CA 91016

NEWS:

は事人の一般を記しては、

-The official "final" version of Advanced Basic for the Geneve was released June 30th. It may be downloaded from GEnie in either one arc'd file (#3330) or as 7 un-arc'd files.

-MDOS version .95H for the Myarc Hard Disk was released on June 6th by Lou Phillips. It may be downloaded from GEnie. It is recommended that you download the un-arc'd version, apparently because of a "possible" problem with the compression of the file when it is archived. Both versions are available for

download. The un-arc'd version is file #3299.

-As of July 15th, the word is that the most recent version of MYWORD for the Geneve will be the last one produced. Apparently since Peter Hoddie has moved to the Silicon Valley area of California he is no longer working for Myarc. Paul Charlton, who at last report was working in the Boulder or Fort Collins, Colorado area, is still working for Myarc. More good things to come I hope.

-A rumor is circulating that John Johnson will take over as sysop for the TI RoundTable on GEnie and that Scott Darling, who took over from Mark Sumner, way back when the TI RoundTable was first formed, will move on to "other" things.

-Another rumor picked up is that Norm Sellers, master of music fairware, is nearing completion on a new assembly language coded utility for the 99/4A. Although I don't have a name for it, the program supposedly will read disk files and tell you virtually anything that there is to know about the files. A real "Innermost Secrets" type application.

-Ernie Pergrem, the Educational Program Chairman for the Chicago TI User Group, has undertaken a project to put together a 20-25 page booklet of non-copyrighted articles from other newsletters? It will be patterned after the very successful Hardware Projects Manual that the Chicago Group produced via Nick Iacovelli et al.

-Tom Freeman and Jim Lohmeyer of T and J Software have announced the release of THE BUGGER, an assembly language debugger that sends output to the RS232 port to avoid corupting the program being debugged. The program lacks print routines at this point apprarently, but will have them included as soon as the necessary code for "all" RS232 cards is available. THE BUGGER is available for \$18.50 (which includes S/H) from:

T and J Software 515 Alma Real Drive Pacific Palisades, CA 90272

-Barry Traver has uploaded over 15 files of public domain graphics data files (that contain pictures) that can be used with a program called TIPS, by Ron Wolcott, to convert the pictures to TI-Artist Instances. As soon as I locate Ron's address I will let you know. I also haven't been able to find the TIPS program either.

-Comprodine's Roger Merritt and TextComp's Jerry Price have apparently entered into an agreement whereby the giant distributor of TI-99/4A products will handle Comprodine software. On a similar note, Paul Coleman, author of GAP (Giant Artist Posters) and the Nameloc line of software, is apparently now lending his programming skills to the Comprodine line of innovative products. Look for great things to come!

Comprodine 1949 Evergreen Ave Fulerton, CA 92635 714-990-4577 (12-5 PST)

TexComp Users Supply P.O. Box 33084 Granada Hills, CA 91344 818-366-6631 (24 hr. order

line)

-To read the rest of this article, please see THE FRONT RANGER, Vol 6 No. 11 August 1989, page 10. Check with Curt Borders to check it out of the Exchange Newsletter Library.

MEMBERSHIPS DUE IN SEPTEMBER

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Please see Everett Wade, Membership Registrar, and pay your dues for the next 6 months at the September meeting on 09 Sept 1989.

RETURN TO



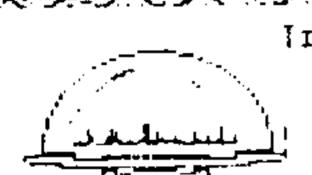
TI-Artist

Dension 2,01

FROM INSCEBOT, INC.

Copyright 1985 Chris Esherty

Mouse Active



TI-BRITIST FOR THE GENEVE PRESS OTE ALT SHIFT TO REGAIN CONTROL AT 1 2007 MENU



(Thanks New Horizons Mar 1989 NL)

1 ! THIS IS A BOOT PROGRAM
TO LOAD TI-ARTIST
WITHOUT LOOKING THRU
ALL THE DRIVES FOR EACH
FILE.

3 CALL WORK

5 ON ERROR 12

11 CALL INIT :: CALL LOAD("D SK5.ARTIST"):: CALL LINK("ST ART")

12 CALL RET

13 SUB WORK

14 CALL CLEAR :: DISPLAY AT(10,2): This will take 10 sec. ":: SUBEND

15 SUB RET

16 CALL CLEAR :: DISPLAY AT(
10,2): "SORRY GUESS YOU DIDN'
T": " LOAD ARTIST TO DRIVE #5
": " LETS GO BACK TO MENU": "
* I WILL DO IT FOR YOU *"

17 FOR 1=300 TO 0 STEP -1 ::
DISPLAY AT(14,4): "time TO M
ENU: >": I :: NEXT I

18 CALL INIT :: CALL LOAD (-3 1962, 100, 130):: SUBEND

ARTLD by Roger Feinauer

Many times I need to use TI-Artist and a lot of times while using software to do the newsletter i'm in Extended Basic. For convenience I have a special disk with a formatted version of Artist to run on drive number 5. On the Geneve drive number 5 is built in the system, but you could do the same thing with any ramdisk on the 99/4A as well. I also have on my disk a batch file that does a diskcopy of of this disk from drive one to five. I this from Mdos, then run the batch file on my system that runs GPL and XB .

On my menu program I have two programs one is call ARTLD and the other is a file that loads a disk called FONT. To load the disk called GRAPHICS LOADER and loades with DSK.FONT.LOAD, which has FONT WRITER II, MACFLIX, GRAPHICS EXPANDER, ARTIST ENLARGER, TI-ARTIST AT DRIVE 5, PICASSO. The file at the right is the file I have in drive number 6 ARTLD which is setup to load TI-ARTIST at drive #5. using EXTENDED BASIC.

The program looks at drive #5 to see if it can find a program named ARTIST if it can't find it. Then it goes to to line #12 and loads the sub routine called RET which tells you that it couldn't find TI-ARTIST then it returns you back to the starting menu. If it finds the file named ARTIST then it loads T1-ARTIST. I believe you could also use this on a 99/4A roger.

TI-BASE - From INSCEBOT TUTORIAL 7.1 By Martin Smoley NorthCoast 99'ers - Feb. 12, 1989 Copyright 1989 By Martin A. Seoley

I am reserving the copyright on this material, but I will allow the copying of this material by anyone under the following conditions. (1) It must be copied in its entirety with no changes. (2) If it is retyped, credit must be given to myself and the NorthCoast 99ers, as above. (3) The last major condition is that there may not be any profit directly involved in the copying or transfer of this material. In other words, Clubs can use it in their newsletters and you can give a copy to your friend as long as its free.

*** Miscellaneous Information ***

This month I'm going to try to answer some questions and include some new information from the new TI-Base manual. The first thing I'd like to say is "read the manual several times". There is a lot of information in it that you will probably miss the first or even the second time you read it, "I know I did". Make the two readings at least a day apart. If you read it twice in a row, you'll read in mistakes the first time through and rather than find the mistakes you'll reinforce those mistakes the second time through. It is very apparent from letters. I receive that some people try to start using II-Base. after just skimming through the manual. II-Base is too complicated for you to bluff your way through. I have been working with it for many months and I still keep the manual close at hand, and refer to it or the new QUICK REFERENCE GUIDE constantly. As far as programming problems go, typo's are my biggest. If you enter LDCAL BLNK C 30, and later in the program you try REPLACE BLANK WITH " Good morning", TI-Base will not match BLMK with BLAMK. The next big mistake I make is to try and concatinate too many characters tegether. I then try to jam them into a variable with too little space. If BLMK has 30 spaces available you must add up the characters you have in the fields you want to stuff into BLMK. It's easy to say REPLACE BLAK WITH FM : LM. FM and LM don't look like much but they may represent 25 characters each, for a total of 50. You must keep these things in mind or written down, the system will not give you any help with these problems. One important thing I try to remember is "don't try to write a big program in one chunk". You should be creating a library of small CFs or programs. Each of these programs should do a fairly specific job, like printing labels or writing screen messages. Work on an individual CF until it works well and then use a bunch of these small programs together to do a larger job. If you are having problems with a CF, or a group of CFs you are trying to use, leave the TALK DM. All the lines will scroll up the screen as you watch. If TI-Base cannot execute a line for some reason, it will place an asterisk at the very beginning of the line for you to see. If you can't get the hang of this method, Version 2.01 has a TRACE command. It is simply TRACE ON/TRACE OFF. If you enter TRACE ON, all lines which TI-Base can execute will be sent to your printer. You can them compare that printout to your original CF and the lines that didn't print out did not execute. When you find lines that won't execute, check them for variables first. See if you are trying to put too much data into a variable, or possibly the data is the wrong type. With version 2.0 and up I can't seem to mix those C)haracter and N)umeric fields the way I could with 1.02.

I hate to appear to the was trying to pet artable that or initilized at the begining of the CF. If you are attempt, , to use a command or function for the first time and you do not understand how to phrase the statement, work small. Create a very small CF that does little more than test your new function. If you need to use a database with this function. use one with only a few names in it. "I use TNAMES, it contains only six names." That speeds up the test time and allows se to try the maximum amount of variations in the least amount of time. When you are having problems with a CF and you'd like a hard copy to look at, there is a new command called LIST. If you type LIST DSK1.filename/C at the dot prompt, TIB will go to the disk number you entered and try to find the filename you want, remember the /C is needed. If it can find that filename, it will LIST it to your printer. I find this command and SNAP, which is the new TIB screen dump, very helpful. I seem to be able to find many small errors on a

*** Printer Controls ***

printer page that I overlook on the monitor.

Since I am already talking about printing hardcopies, I'd like to throw in some printer information. TIB Version 2.01 has built in printer control codes. They are present in the form of a database on the PREDISK, named PRINTER. If you LIST or EDIT the SETUP CF that comes with TIB you will see & PRINTER EPSOW in that file. Because there is an asterisk at the beginning of that line, TIB ignores the command and none of those control codes are available to you. That's because of the wide variety of printers on the market today. You must set up your own printer control codes in this system and make them available for TIBs access. Here's a little help on approaching this utility. We will look at the EPSON section because I am familiar with EPSOM printers. Type USE DSK1.PRINTER (E). The name PRINTER should come up in the bottom line across your screen as a normal database in use. Next type DISPLAY STRUCTURE. Now, with your printer turned on, type SMAP (E) and hopefully the screen will be dumped to your printer. It should look like the screen below.

CREAT	ED	CHANGE		
FIELD	DESCRIPTOR	TYPE	WIDTH	DEC.
1	NAME	C	010	
2	FF	X	002	
3	LF	X	002	
4	CR	X	002	
5	DS	X	004	
6	UL	X	006	
7	EX	X	002	
8	CM	X	004	
9	IT	X	004	
10	B	X	004	
11	SPS	· X	006	
12	SBS	X	006	
13	HT	X	002	
14	ST	X	020	
15	NM	X	026	
16	BLANK	X	030	
SNAP				

000 1 PRINTER 00006/00007

Continued Next Page.

Copyright 1987 by Martin A. Societ

that we are lumbing at a database structure, though it is a little absormal. It's absormalities are it so useful. Ill recognises this detabase as the "swhere it will find the control codes for your printer. field must be MANE. In the MANE field you would your printer name, such as Egoon. The next three fields recognize as Form Food, Line Food, and Carriage These west stay exactly as you see than for IID to properly. The rest of the fields are buble Stribe, Under Enterged Print, Cundensed Hode, Italics, Bold, Sufficient, Marizantal Tob, Set Tab, Marcel Node contains ald of the previous compands), and a Black line 30 == s in length. One item of great importance is the I stield designation. The I type tells IIB that the item to this word is specifically a printer central code. ples tells IIB that it should interpret the screet ausbors ters you type into the I field as Merideciaal. If THE DOCLARENCE and type EDIT, you will see the screen DIAME I agame for Diable, is the first screen you encounter. Pressing FETH 5 will nove you to the EPSON

EDIT

EPBON GC DA GD 1847 182D01 GE COOF 1834 1845 185300 185301 OP 1840A0A0A0A0A0A0A0A0A0A0 18481B2D3014121B351B46185> COOOCOOOCOOOCOOOCOOOCOOO

000 1 PRINTER 00000/00007

of them acreens can be edited to your needs. You can the names to your oun liking. For example you can El to Day for ENLARGED. You can also change the data the finish to motth the codes your printer expects, if they already out properly. This part is a little confusing, and really hard. WIE: If you change the length of a data the data will be lost and must be re-entered. Habe sure stand what you are doing before you change any Changing the data and thus changing the control code simple on typing over what is currently in a particular Lets land at 36, which stands for Double Strike for = Bold on the Star III-10. The printer command for M or a change this, you would ennety type over it with normal and mahure. Til, however, will interpret these to Manadeci est entiters.

Housedocieal, it is 13. So the first two characters in the 36 field stand for Escape (18). The second helf of the commodis "6" or 6. The decised for 6 is 71 and the Man for 6 is 47, so 1947 is Hex for (ESC) 6. In every printer handbald leasn resember seeing, the ACCII, the Decimal and the Manufectual are given for the printer commands. You app have to search blummeh your printer canual, but you don't have to figure thous out. just look then up and type then in. One serw scanple small be B for Bold, which actually produces Emphasisod on my NI-10. By book says (ESC) "E" turns on Emphasized. Just below that it says 27 49 and below that is says 18 45. If you check the EDIT screen, yes'll see that the B field contains 1945. EK, how do you use this stuff. Well in most cause it's easier and more convenient than you night think. First EDIT the MENUP file. Remove the asterist is front of the PRINTER EPSON. If you have an Epsen, Geeini Star or a siniter printer, try the EPSEN command first. After using FCTN 8 to save the new CF, type 16 39Ks.SETUP to room the SETUP file. As SETUP runs motch the bettee of your screen and you will say PRINTER come up while the EPSON commands are being installed. After SETUP finishes all traces of this operation will disappear, but the results will still be usable. Agen the TMMES NO by typing MEE TMMES. With your printer turned on type PRINT (8) (E). If everything unrhad, you just not you printer to 713 Bald. Type PRINT ALL FM, MI, LH (E). This should print out ALL of the mages in THANES, in Bold Faced print. Typing PRENT (NN) (E) should return you to normal print, or DAFT HOSE. Try PRINT MA. (B) FN (CM) MI (NM) (IT) LN (NM) (E). This should PRINT ALL the First Mases in Beld, the Middle Initials in Condensed and the Last Manes in Italics. Notice that the printer controls are enclosed in parenthesis and that a delimiter (comes or black space) is needed between the fields or control codes. The (E) represents Proce Enter. This type of central code use is very beleful when you are dusping a couplete database to the printer. You can type FRENT (CN) (E) and then FRENT ALL (E). With TIB version 2.01 that troublesome line crawling that produced a printout that looked like a printer test patturn has been eliminated. Condensed ands now produces a nice must columnar type page. I hope this is enough to get you started. Recember, read that execual. There is more on printer controls in the manual and I'll probably slip some of them into the tutorials in the future.

*** Geneve Hyarc ***

Here's an important tip from Bob Stevens of Settle Grout, MI. Bob cays he had some disasterous results on his Geneve with a Myorc Disk Controller when he tried to run CFs off the PAGDISK. The cure he found was to initialize some now disks using it rather than 18 sectors and reset the interlace to 10. He then copied his TI-Base files to the new disks and living happily ever after. Thanks for sharing that with us Dob; it will probably save someone in Florida a lot of aggravation.

*** THE LIME FAIR ***

This is a little early but I'd like to start plugging the Lina Fair. Duite a few people from the Cleveland area will be going to the Lina Fair this year. The fair will be held on May 20, and I hope to give a Decenstration of II-Bose at that time. I an also looking forward to conting want of the people I have corresponded with and talked to over the phone.

Continued Next Menth.

FOR

C.O.N.N.I. BOWD HEMBEN

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Vice Pres. - Jim Beitz (614) 689-3532
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TIME SENSITIVE MATERIAL.
POSTMOSTER - PLEASE DELIVER PROMITLY



SUDMANIONU (PAT) PATEL Owner

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SMAUG USER'S GROUP/99 RT 4, BOX 23 BREWTON, AL 36426

111 MEMBERSHIP APPLICATION 111

	ń (ACC
	Concept Andrews			10 mm (10 mm)			
CITY			\$ \$2		BTOTE		
CFE		JUNE PH			ESS PIENE		PATO.
HOT	IB YOUR	PROPESSION	1/VECATIO				
HOW	LINE HAV	E YOU OHNE	D YOUR CO	PUTERY_	TED BY	All the second	
DATE	OF APPL	ICATION			1 C.U (1877		