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Robert Peters President, OH-MI-TI 225 S. Wheeling Oregon, DH 43616 (419) 693-7934

!/////// Don Turner (419) 385-7484 TICOMM BBS 24-HRS <<<

President, New Horizons 1690 Idlewood Street Toledo, OH 43615 (419) 537-1454

Time 7:00 Pm.

SYSOPS Meeting; 8 Apr '88 Fri : > TURNER - MILLS < : Meeting; 9 Apr '88 Sat

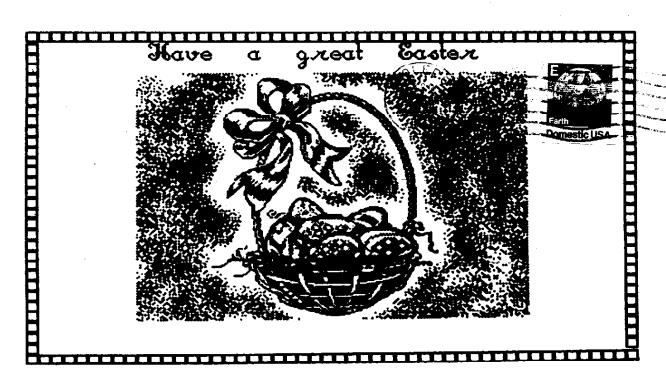
Oregon #2 Fire Station :\\\\\\\\\\\////////////////////// Unity Church Secor Road Time: 12:30 Pm.

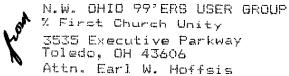
THE NEWSLETTER STAFF

Roger & Judy Feinauer Earl Hoffsis Pat Hunsi

LOCAL CONTRIBUTIONS BY:

Jo Symington - Bill Sager Earl Hoffsi's Robert Peters





Dallas TI Home Computer Gp c/o Louis Guion PO Box 29863 Dallas, TX 75299

NEW HORIZONS NEWS

By Don Turner New Horizons

Greetings to all the members of NEW HORIZONS. I would like to see April off with all of the members at this month's meeting. Be sure to attend or you could miss something that would benifit you. There will be prizes and some interesting ideas at this meeting. We will be meeting at UNITY CHURCH on Executive Pkwy at 12:30 on April 9th.

MICROPENDIUM is available each month at the club sales desk. These are in limited quantities so be sure to get yours while MICROPENDIUM they last. some of latest news and software concerning the TI-99/4A and the Also it GENEVE 9640. reviews on software/hardware and much much more. This month will have some of the most exciting demos so far this year! I want to thank Dave Romer and Paul Martin for their splendid demos they did last month.

Filename	Type	Size	P	Comment
CALENDRI	FGM	33	No	File 1 for calender program
CALENDRO	PGM	7	No	File 2 for calender program
CLCC DREAM	PGM	18	No	Musical program "ELECTRIC DREAMS"
LOAD	PGM	8	No	Curecial Resid losger Stoures
LOADCALNDR			No	Extended Basic loader/Calender pur
EUMPCALIER FUPPYTUWNS		213	No	Carrad Propertows program
		59	NG	Est Basic musical program/graphic
		38 38	No	Downhill skiing program
SHOOSH	PGM I/V	56	NO	For Basic pressure company dame
TEX-RANGER			No	- E.b basic ting for organisment
TINYTIPS1	FCM1	42		Support loader program A/Language
YLDAD	D/F	10	No	Pubbour russes by odi am in management

1988		1988				
SUN	MON	TUE	WED	THU	FRI	SAT
					1	2
3	4	5	6	7.	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30

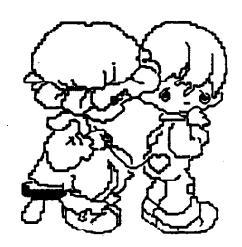
Fresident's Corner By Bob Peters

For those of you who weren't at last months meeting we had demos on Telco, Fast Term 2.4 and Neatlist. I will review Telco In another article. I will make available Version 1.3 of Telco to those of you got a copy at last months meeting free of charge.

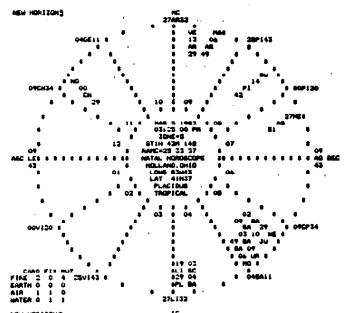
Dave Burkett will do the demos this month. They will be Disk Cataloger and Label Maker, and a Character and Sprite development program. These will be for sale at the meeting. There will be Blank discs for sale at the meeting.

At the directors meeting we discussed the fact that we need input on what you you want to see demoed and that we need volunteers to do demos. I will not be able to any for awhile do to the imminent arrival of another baby.

The next meeting is at Oregon #2 Firestation on April 8, 1988 at 7 P.M. Hope to see you there unless I am at the hospital with my wife.



"SEWIN" MY FAVORITE CSGD GRAPHIC



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PLANETE	ABREV	GE.O	A	DECL.	ELEM.	•/-	TRIP	HOUSES			V IDDIAC IISMS
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	****		-		الخداد المحاصر		****	*****			

The horoscope of the NEW HORIZONS COMPUTER CLUB has LEO, the sign of the Sun, rising and is very appropriate for our logo. The ruling planet of LEO, the Sun, is in the behind the scenes and investigative sign of PISCES and is located in the 8th house.

The members of the club are indicated by Mercury in AQUARIUS, the sign of electronics and inovative ideas, located in the 7th house. Mercury's trine to Pluto, in the 4th indicates the overcoming of adversities caused by II's decision to bow out of the home computer market, if not enhanced by it, due to the members being more responsive and cooperative in keeping the ideas flowing.

With 4 planets in SAGITARIUS and two planets in ARIES. all trining to the Ascendant, our club can be whatever its members wish it to be.

Most of the work of the club and its members is accomplished in the late afternoon or early evening hours as noted by the majority of the planets below the horizon.

The main strength of the chart reading is indicated by the 4 planets, Moon, Uranus, Jupiter, and Neptune, all located in the creative 5th house. Many inovative and excellent programs will be forthcoming from all areas on all subjects.

The above item is a reprint from New Horizons March '83 news-letter. Notice how close we have come, so far, to the forecast.

Member of the Month

> by Jo Symington NEW HORIZONS Bill Tiep

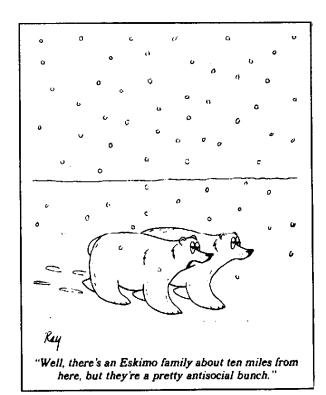
Bill has been a member of New Horizons since the club was organized. He was the news letter Editor along with the late Phil Dennis for 2 years.

Bill and his wife Robin have two daughters, Jinnifer, age 11 and Susan, 14. Jinnifer plays the piano and is quite good at it.

Bill works for First federal where he is an analyst programmer. he takes care of the General Ledger System - that encompasses the Income and Expenses of the Bank.

Bill enjoys cooking, in fact he says he's a better cook than his wife. Bill enjoys comming to the meeting and looks forward to seeing everybody.

Jo



Earl Hoffsis

Using "PRINT USING" with your printer By Richard Roberts TI3552

One of the more obscure statements available with TI Extended BASIC is one called PRINT USING. Even more is the fact that obscure this statement can be used to format variables and constants that will be dumped to your printer. Extended BASIC manual, on page 150, shows several examples of how PRINT USING can be used to format data for screen display, but mary a word of how to do the same with open files. It can be done, and is much more powerful than you may realsze.

Any discussion of PRINT USING will require an understanding of the IMAGE statement, so if you are not familiar with it, you better brush The PRINT USING up on it first. statement uses IMAGE in one of two either ways, with a string expression, or 2 line reference. I prefer the latter, as it allows for more flexibility, but since these different methods are explained in the manual, I will limit this to a few simple examples that are not shown in the manual.

100 TCOST=19.55

110 IMAGE ##.##

120 DPEN #1: "PIO"

130 PRINT #1, USING 110: TCOST

Running this sample program will effectively show how the PRINT USING statement will work with an open Of course, there are many variations of IMAGE that can so experiment with be used, them and watch how it performs when line 130 dumps it to the printer. Shown below are a few more examples for use with an open file.

110 IMAGE "##.## ##.##"

130 PRINT #1, USING 110: COST1, COST2

This version shows how you can format the printed line for string data as well as numerical data. A string variable could be used in place of the string constant, as below.

105 As="TOTAL COST"

110 IMAGE "######### ##.##" 130 PRINT #1,USING 110:A5,TCOST

It is also possible to place the IMAGE statement inside the PRINT USING statement, as shown below. First, delete line 110.
130 PRINT #1, USING "##.##": TCOST

130 PRINT #1, USING "######## ##. ##

: A\$, TCOST

A few other points to remember include the fact that IMAGE and PRINT USING can be used to round off calculated variables. Α string expression such ******. *** will round off decimal align numbers as small number at any designated location. This function could save many hours algorithm development accomplishing the same thing. So. in the long run, the PRINT USING statement is one that any programmer should be very familiar with, use as much as possible. RICHARD ROBERTS IS PRESIDENT OF THE DALLAS TI99/4A USERS GROUP. SOFTMAIL WELCOMES TUTORIALS OR OTHER ITEMS OF INTEREST THAT USERS WISH TO SHARE WITH OTHERS. THROUGH EFFORTS SUCH AS RICHARDS WE MAY WELL ABLE TO ENJOY AND BENEFIT FROM OUR ORPHAN AS LONG AS THOSE POOR SOULS LEFT HANGING WITH BANANA 9000 JUNIOR! MAYBE EVEN LONGER!

Thanks to

No. NJ 99'ers User Group

May 1985 Newsletter

```
110
       Program UPDATED BY WILLIAM M. LUCID, Original by MBP for use with
120 !
130 !
       the MBP Analog to Digital board for the TI Expansion System.
140
       This is a documentation program, suitability, use of this program
150
       is at USER'S OWN RISK.
       ONLINE information about MBP is available from Jerry McClusky TIBBS(tm)
160
170
            300/1200 baud in Wichita, KS 316-681-3167.
180
190
          Vcc (+5 vdc)
200
210 !
220
     LM335 :
230
                      > 10,000 ohm variable resistor
240 !
          1 1
250 !
            i Adj
                    \ >
                          Output
                                   10mU/ Kelvin
260
          1
                    -->(...... A/D Channel 0 (Pin 6)
270
                     / >
          1
            1
                                        degree
280
            :
290
                      >
300
           1
310
320
                          ..... A/D Ground (Pin 16)
330 !
              Ground
340
350 ! Program for use with analog to digital board for P-Box.
360 !
     Device used to sense temperature is described in National Semiconductors
     Linear Databook. One low cost devices, resistor and powered by a five volt
380
     supply. LM 335 are NATIONAL'S semiconductors. Calibration may be needed.
390
   ! Each sensor is capable of being calibrated individually. .
400
420 CALL CLEAR :: CALL SCREEN(8):: CALL INIT :: DEF SET=X+6*INT(X/10):: DEF TIME
=X-6*INT(X/16):: DEF F=.4578313254 :: DIM WK$(7),MQ$(12)
430 FOR DW=1 TO 7 :: READ WK$(DW):: NEXT DW
440 FOR DM=1 TO 12 :: READ MG$(DM):: NEXT DM
450 DATA Sun, Mon, Tues, Wednes, Thurs, Fri, Satur
460 DATA January, February, March, April, May, June, July
470 DATA August, September, October, November, December
480 CALL PEEK(-31158,X1,X2,D,X4,X5):: X=D :: D$=STR$(TIME):: X=X5 :: X5=TIME ::
L1#="Today is "&WK$(X1)&"day" :: L1=[NT((32-LEN(L1$))/2):: L2#=MD$(X5)&" "&D$&",
 1985"
490 L2=INT((32-LEN(L2$))/2)
500 Z=TC#F :: CALL PEEK(-31164,X1,X2,X3,X4,X5):: X=X1 :: SEC#=STR*(TIME):: IF X1
<!O THEN SEC=="0"&SEC= .</pre>
510 X=X3 :: MIN$=STR$(TIME):: IF X3(10 THEN MIN$="0"&MIN$
520 X=X5 :: HR=TIME :: M$=" am" :: IF HR>11 THEN M$=" pm"
530 IF HR=0 THEN HR=12
540 IF HR>12 THEN HR=HR-12
550 HR$=$TR$(HR):: T1$=HR$&":"&MIN$&":"&SEC$&M$
560 DISPLAY AT(6,L1):L1$ :: DISPLAY AT(8,L2):L2$: : :TAB(10);"The Time Is": : :T
AB(11):T1$
570 CALL PEEK(-31088,TC):: CALL PEEK(-31072,TC)
580 DISPLAY AT(17,7):"Room Temperature" :: DISPLAY AT(19,10):USING "####.# F.":2
590 IF X1+X3+X5=213 THEN 480 ELSE 500
```

COLISTER

A TINYGRAM

by Ed Machonis

Another 28 column lister? Why not? This one happens to be my favorite and not just because I wrote it. I like it because it does the job the may I want it done, but then I wrote it that way.

At the time I wrote COLISTER, I had no access to any program that could do what I wanted done, which was to be able to list a program to disk or printer in 28 column format, the way it appears on the screen.

A 28 column listing makes it easier for the reader to type in the program with less chance for error. It also makes it simpler to check for errors should any creep in. One only has to check the end of each line as it appears on the screen against the printed listing to see if any characters were omitted or added. (Home Computer magazine never did learn this lesson.)

But the biggest reason is that it not only saves the work of typing in a program in 28 column format, but it eliminates the chance for typing errors. By letting the computer do the work, nothing can go wrong. (If you believe this, I have a fantastic deal on a Bridge I'd like to tell you about!)

Why not just LIST to Printer or Disk? It's not that simple. The computer will list the program in 90 column format. Why not set the printer's right margin at 28? It will work up to a point. The point being a program line of more than 80 characters. The computer will send a carriage return after the 80th character and start printing the rest of the code on a new line. Listing to disk will also give you an 80 column listing.

Since I originally wrote this program several years ago, two programs that do the same work have been brought to my attention. One is 28 Column Converter by Jim Peterson, published in Tigarcub Tips \$18, and the other is COLIST, a Fairware program by the McGoverns. Both are very nice programs and you may well find them more useful to you than the one presented here. (I had originally named my programs COLIST but have since renamed it COLISTER to avoid confusion.)

COLISTER has a couple of features not available in the other programs. First, it will print a blank line between program lines. I feel this makes it master to "read" the program, especially the spaghetti code I am prome to. It facilitates picking out a line number in the middle of the program when following those GOTOs and orELSEs.

Second, it TABs the output A spaces. This centers the listing when merged into 40 column text in TI-Writer's Editor, and provides a margin so hard copies can be loose leaf bound.

COLISTER does not require that a program's line numbers be resequenced in order to list it. A lot of-my program lines are numbered from 1 to 10. Default resequencing (100,10) would sometimes destroy their Tinygram status. (COLISTER is a good example. One Tinygram "trick" is to use single digit line numbers to gain a few extra character spaces for your code.)

COLISTER will print to either disk or printer. Listings printed to disk can the be serged with text in TI-Writer's Editor. Do not print the listing through the Fornatter unless you have modified your Fornatter file to ignore the special format command characters that are also often found in programs.

This Tinygram uses only 4 ⇒ctors of disk space, which can be reduced to 3 sectors by deleting line 1. It carms its keep on my SSSD utility disk. (Small is Beautiful)

Using COLISTER is very simple. First, load into memory the program you mant to list. Next make a DV 90 listing by typing LIST "DSKn.FILEMANE". Don't use the same filename as the program or the listing can overwrite the program.

Then load and RUM COLISTER. At the first prompt, enter the DSK number and the filename used above. For the second prompt, enter the print device mame. This can be either PIO, RS232, or DSKn.FILEMAME2. Again, use a different filename if reading from and writing to the same drive.

If you don't want the blank line between program lines, just change the FOR statement in Line 8 to rmad: FOR I=O TO L-1. The TAB setting in this line can also be changed or eliminated, as

A 100

desired. If for some reason you want a listing with a different width, say 40 columns for those "other" owners, just change the value of C in Line 5. (The reason it's in Line 5, and being constantly updated, is because that's where the room was. Another Tinygram "trick".)

If you prepare program listings for newsletters, I think you'll find this program useful. The algorithm used to detect a new line number is relatively unsophisticated. It hasn't failed me yet, but I's sure that someone, someday will write code that will trip it up. For that reason it is well to always look over the output to be sure that lines have not been split or joined when they should not have been.

1 ! eee COLISTER eee A Tinygrae by Ed Hachonis QB-99ers, Bayside, NY

2 PRINT :"ist LIST your prog

3 PRINT 1;: "INPUT FILENAME? ex:DSKn.LIST" :: INPUT F8 :: INPUT "GUTPUT FILENAME? ex: P10 or BSKn.LIST28 :":P\$

4 OPEN 81:FS, INPUT :: OPEN 0 3:PS, OUTPUT :: ON ERROR 10

5 C=28 :: LINPUT 01:A\$:: IF LEN(A\$)(80 THEN 8

& LIMPUT 61:38 :: 1F VALISES \$(A5,1,POS(A5," ",2)))<VAL(S EG\$(B\$,1,POS(B\$," ",2)))THEM F=1 :: GOTO 8

7 AS=ASEBS 1: IF LEN(BS)>=80 THEN &

8 A=LEN(A\$):: L=A/C+.99 :: F OR I=O TO L :: PRINT 83:TAB(6);SE6#(A\$,1+1+C,C):: NEXT 1 :: IF EOF(!)AND F=O THEN CL OSE 01 :: CLOSE 83 :: ENO

9 [F F=1 THEN F=0 :: A4=** : : GOTO 7 ELSE 5

10 DM ERROR 10 :: RETURN 7

EDITOR

by Roger Feinauer OH-MI-TI & NEW HORIZONS

First of all there was meeting between OH-MI-TI and NEW HORIZONS to discuss how we can be more cooperative. One of the was first subjects the At this meeting it newsletter. was decided that the subject should get back to This was agreed upon by both clubs. And that we should strive to get more members to articles for newsletter. We felt that there was more users of software then programers. And that it would be nice to read articles from persons experiences with some software that they use. If any of you out there have thinking of writing an article but thought, "I can't do this". Well think again you can. Let us know about what you are doing with your computer.

The new deadline that shall be written in granite on both clubs archways that all articles shall in the hands of be newsletter staff no latter then 14 calender days before OH-MI-TI's meeting. As their meeting is first this makes good sense. It is also prefered that the article be either up-loaded to or BBS see number on front page or mailed to use on disk if you have no modem. Al though written articles hand welcome if you have no printer. In all cases please include your phone number if there are any guestions thankyou.

The clubs have gained another member to the newsletter staff. Pat Hunsinger will be incharge of picking up the newsletters for OH-MI-TI from the printer and mail them out to the members of that club. Welcome aboard Pat and I know we all thank you.

We talked a little of what could be done about making more members aware of whats available in the clubs, lending library,

and also the newsletter library from other clubs. but this should be discussed at the meetings with most of the members present.

DEMO'S this month at NEW HORIZONS

Christ Dewey MBX system

TELCO

A REVIEW
BY
Bob Peters

As a died in the wool user of 4A/TALK, I thought I had the easiest term program with the best features to use. I had used Mass Transfer on occasion but was not happy with it as my machine locked up on occasions like right in the middle of a transfer. Fast Term had to many key strokes to remember.

I was offered a copy of Telco 1.0. The guy that offered it to me bragged that it was as good as ProComm for the IBM. Well you know he was right.

Telco requires a disk system and memory expansion and will work on the 4A and 9640 running in GPL. The program loads with Extended Basic, E/A, TI-WRITER, Mini Memory or a SuperCart.

This program is loaded into memory and all of the functions are loaded as you need them. The program windows over the current screen that you are using so that you know what you are doing at all times.

It includes an autodialer that handles 99 phone numbers with all of the default settings for baud rate, parity, data and stop bits and terminal width included in the phone listing. The dialer will automatically dial 15 numbers deternined by the user.

You can create your own macros and call them up at any time. It has terminal support for ANSI, D410 and ADM3A. It will support ASCII or XMODEM transfers, including support for line by line transfers.

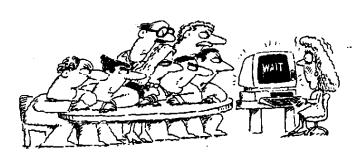
The documentation is on the disk and is 19 pages long. Use the formatter to do the printing. The docs are well written and easy to follow. A rarity for most programs.

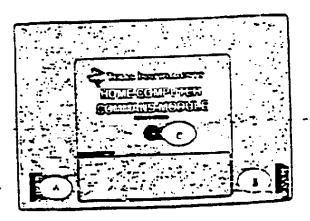
The program was written by:

Charles Earl 34 McLeod Street Ottawa, Ontario Canada K2P 0Z5

Charles is asking \$20 (Canadian) for the program and it is worth every penny of it.

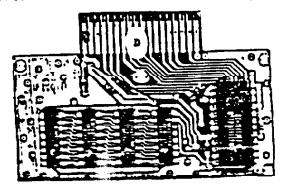
In my opinion this program sets the standards Terminal programs in the 4A world. This program is rated straight A by MICROpendium and deserves it.





How to Clean Modules

From PUNN-Portland, Oregon.



Dirty contacts can screw-up any electrical device and the AA is not an exception. The only place you are fairly likely to run into this problem is in using command modules. Both the module contacts and the port itself can become dirty but cleaning the port itself is a big job as you have to disassemble the console The good news is that cleaning the cartridge will almost always suffice and can be done quickly without any special tools or cleaners. All you need is a regular screwdriver, some sort of rag, a standard pencil eraser, and in some cases a medium phillips screwdriver.

of rag. a standard pencil eraser, and in some cases a medium phillips screwdriver

Remove the screw from "C" if there is one. Then pry the clips in slots "A" and "B" outward to poo open the cartriage. If there is a tlip in "C" pry it back after "A" and "B" are loose. If it should beno off, con't worry, it won't affect the performance of your module.

The module board can now be removed. Do this carefully and note how the spring-loaded

this carefully and note how the spring-loaded four is assembled if there is one so that "now" is assembled if there is one so that you can but it back together if it boos out. Once you have the board removed take your rag (a kleenex will work but a cloth is better) nub off any residue from the contacts Remember to do the contacts on each if module has them. the particular worst is removed take any soft pencil eraser to remove any the contest dently to re and rub reassemble the cartridge and you are back in business. Some symbols of a dirty contact remaing contaminant. are the console locking-up, strange errors and display on your screen and a syntax error. Don't jump to clean a cartridge on your first error though, it could be a number of other things. But if you find that you have a continuing problem cleaning the contacts is outer and asy correct that have a continuing problem cleaning the contacts is quick and may correct what was wrong.

TIPS FROM THE TIBERCUS

120

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The entire contents of Tips from the Tipercub Nos.

1 tarough 14, with more added, are now available as a full disk of 50 programs, routines and files for just \$15.00 postpaid!

muts & Bolts 15 4 distrull of 100 Ithat's right, 100!) IBasic utility superportes in MERGE forest. reasy for you to serge into your own programs. Contents include 13 type fonts, 14 text display routines, 12 sorts and snuffles, 9 data savimo and reading routines. 7 wipes, 8 pauses, 6 ausic, 2 protection, etc., and now siso a tutorial on using supprograms, all for just \$19.95 postpar6!

And I have about 140 other absolutely priginal programs in Basic and IBasic at only \$3.00 each! plus \$1.50 per order for casette, packing and postage, or \$3.00 for siskette, PPM) bose users groups charge their seabers that such for public domain programs! I wait send you by descriptive cataing for a dollar, which your first order.

Come on now, folks, son't you support your local schools? And don't you support those who support

you? There are thousands of schools which have II-99/4A computers in the classroom. usually without disk drive and without Extended Basic. could use ... Ihey La educational programs Basic on casette. They could probably use some of the public domain softwarm in your library. Maybe they could use some of the educational programs I sell for just \$3 (and I authorize schools to copy them for use within the school). There is probably such a school in YOUR Area - 15 Your group supporting it? In the last Tips, I asked the members of 101 users groups to give me the addresses of schools that had lis, so I could send thee a free catalog. how many addresses 616 1 get? lero to the power of zero times zero:

hore on the pestiferous asterisk bug in Il-Writer. Dr. Suy-Stefan Rosano has confirmed and explained it. If you are printing out of the Foreatter mode and your text contains an asterisk followed by two or more pumeric digits the asterisk and two digits will disappear! For instance, AZ256 becomes A6, and 1've noticed that A6 in programs 10 nunlisted newsletters recently.

The II-writer program misinterprets the asterisk and two digits as an instruction to input data from a "value file" (see Alternate Input on p. 111 of the sanual).

The solution to this bug is to type two exterists followed by two dusay digits, then the actual digits. For instance, instead of At25a type As12525a. Fromble 1s. The bug usually shows up in a program which has been LiSied to disk and then

MERSEE into TI-Writer, and is usually not noticed. The solution? Num the program through by 28-Column Converter (see Tips \$18!).

Dr. Rosano informs as that there is an even worse bug in the Transliterate command coding, erratic and sometimes destructive. It is triggered by certain sequences of characters, but these have not been documented.

Dr. Romano says that ne does not use transliteration.

I would suggest that you also avoid the use of the k and &. The k will only underline a single word, unless you the words together with the " sign. If you tie words together. the Fill and Adjust will leave gaping blanks in your lines and if you tim too many together the line will extend beyond the fight Also, the estatu; underlining is a broken line. It is better to use the escape codes CTRL U, FCTH R. CTRL U. SHIFT - CTRL U. SHIFT A. CTRL U. which will give a solid underline until you turn it off with CTRL U, FCTH R, CTRL U. SHIFT -, CTRL U. SHIFT &. CTRL U.

The 8 is handy to sephasize a single word, but if you want to double-strike a whole sentence or paragraph it is better to use the escape code CTAL U, FCTM R, CTRL U, SHIFT 6, and turn it off again with CTRL U, FCTM R, CTRL U, SHIFT H,

period bug ine the killer annther formatter thinks that any line which begins with a period 15 & formatter command, and deletes the whole line: if your text contains a secisal value the and such 45 .11 mraparound puts it at the beginning of a line, the

line disappears! There are two ways around this - put a 0 in front of all your decimals, as 0.11, or transliterate all your periods.

In all, the TI-Writer formatter is a temperamental and unpredictable piece of software, prome to unwanted line feeds and unexpected paper-wasting form feeds. I like to use it to right-justify text back to the disk, but from them on I prefer to print it out of the editor mode, or out of ay own program.

Designing downloadable characters for the Besist printer (see page 115 of the manual) is a mit tricky because it is hard to visualize how the expanded will appear in pattern The following print. program will enable you to experiment with designs. dump them directly to the printer for viewing, them save them as a file. When you later dump this file into printer RAM for use, aust activita the download characters with the escape code -CHR\$ (27) ; CHR\$ (36) ; CHR\$ (1) .

100 CALL CLEAR :: CALL SCREE M(4):: CALL CHAR(128, *FF8181 81818181FF", 127, RPT\$("F", 14) } :: CALL COLOR(13,2,10) 110 FOR R=9 TO 15 11 CALL HC HAR (R. 11, 128, 9): HEIT R 120 1-1 :: FOR R=9 TO 15 :: DISPLAY AT (R, 7) SIZE(2): STR# (I) :: 1=112 :: NEIT R :: FOR CHS TO 17 II DISPLAY AT(8.C) SIZE(1):SIRS(C-8):: NELT C 130 DISPLAY AT(2,9): TIGERCU B'S" II DISPLAY ATIA, III "GEA INI CHARACTER DUBILGADER" :P rogrammed by Jim Peterson to r the Public Dosais 140 DISPLAY AT(17,1)1* Rove cursor with b.t.k.5.D.":"1.1 and C keys. Toggle on't'and off mits @ kay. Press': fat er when finished.": : ! Pres

s any tey. 150 CALL KEY (O, K, ST) . . IF ST SO THEN 120 IT CALL HCHARITY .1,32,224) 140 Ref 11 Cell 11 CH=128 . 170 CALL HCHAR(R, C, 32):: CAL L HCHAR(R,C,CH):: FOR D=1 TO 10 11 NEIT D 11 CALL KEY13. . K.S[]:: 1F SI=0 THEN 170 160 ON PUSC"VMERDCIIS"&CHR&C 13),CHÁS(K),1)+1 6010 170.31 0,250,220,210,200,190,260,25 0.240,330 190 K=K+L 200 C=C+1 11 6010 270 210 E=C+1 220 K=R-1 1: 6010,270 230 k=k-1 240 CaC-1 11 BOID 270 250 C=C-1 240 k=k+1 270 R=R-(R(9)+(R)15):: C=C-(C(11)+(C)19) ## IF CH=128 THE M 300 1: CALL SCHARTR.C-1,GY) :: CALL 6CHAR(R,C+1,62):: 1 F (614)129) # (624)129) THEM 30 280 DISPLAY AT(22.111*You ca n't have two in a row'i hori zoataily!" 1: FOR 0=1 10 50 11 MELT D 11 DISPLAY AT (22.) 31" "1". " 290 CH=CH-1 JUG CALL HCHAR(R,C,CH):: 601 310 CH-CH+1+(CH-129) #2 11 1F CH-128 THEN 320 1: CALL 6CH MKIR, C-1, 51) II CALL SCHAKIR. C+1,67)11 1F (61C)12911(62C) 1241 JUEN 330 ELSE 280 320 CALL HCHARCH.C, ENJ:: 601 0 1/0 330 FUN C#11 TO 19 11 X=1 11 FUR MP9 10 15 11 CALL BUMAR (k, C, b). 340 IF 6-127 lntm A-m-1 350 1=112 11 NELT K LAG FUE JEL 10 LENISTER(AL): . CALL VCHAR(15.J.C.ASC(SEG) ISINDIAL, J. 133311 HELT J. 13 MS-MSLCOUS (A) 11 A=0 11 MELT 370 DISPLAY AT (20.1) 1 Print? Y/M Y" :: ACCEPT #1(20.12)Y ALIBATE(*TR*)SITE(-1):08 :1 18 HOS"H" IMEM 470 380 IF F=1 THEN 390 11 F=1 1 1 DISPLAT AT (20.1): "Printer BAGG?" II ACCEPT AT120,15) IF S 11 OPEN 01:PS

390 DISPLAY AT (20,1): "ASC11 to redefine?" IL ACCEPT ATI2 0.20; YALIBATE (DIGIT) 812E (3): CH 400 DISPLAY ATIZO, 111 Descen der 10 or 117 0" 11 ACCEPT A 1(20,21) VALIDATE(*01*) \$12E(-1):08 1: 0=VAL(DS) 410 hs=CHR\$ (27) LCHR\$ (42) LCHR \$ (1) LCHK\$ (CH) LCHK\$ (D) LHS 420 PRINT BLINS IS PRINT BIS CHK \$ (27) : CHK \$ (36) : CHK \$ (1) : 430 PRIME BILITATE CHRECHI,7 2):: PRINT #1:CHK\$(14):KPI\$(CHR4 (CH), 36) 440 BISPLAY AT(20,1): Save 1 Y/M)? Y' 11 ACCEPT AT(20,13) VALIDATE(*fM*)S[ZE(-1):Q\$ 1: 15 25="N" THEN 470 450 IF F3-1 THEN 460 11 F3=L 11 DISPLAY AT(20,1): Filena me? DSK" :: ACCEPT AT(20.14) 1F8 11 OPER #21"DSK"WF# 460 PRINT 82:88 470 Rs=** :: DISPLAY AT(20,1 11"Another LY/N17 Y" II ACCE PT AT(20,14) VALIDATE("TN") 51 1E(-1):95 to 1F 95="Y" THEN AND CLOSE BY BE CLOSE #2 ## END

740 MICFOGENGIUS contest to improve on OFFIA brief 100201045 **116** The wines program. MB6 Christians. hichael superb & dram. wrote 1 have to ouy the tou'll January 15548 ٥ť the to get it lyou BRILLPES SUBSEF18186. snould 1 gldn't enter Livoon!1. the contest, of course, and my version is not nearly as good, but have fun -

140 DATA 40000,220,247,282,2
94,330,349,392,440,494,523,5
87,859,498,784,880,988,1047,
1175,1319,1397
170 CALL KEY(1,K1,S)
180 CALL KEY(2,K2,S)
190 CALL SOUND(-1000,NOTE(K2+1),0,NOTE(K2+1)+10,5,NOTE
(K1+1)33.75-ABS(K1+1=0)31100
00,30,-4,0+885(K1+1=0)330)
200 6010 170

A sprite routine that doesn't do anything but look pretty. I call it fatches.

50 CALL CLEAR 11 CALL SCREEN 100 AS=RPTS("AA55",14):: BS= RPIS("F",64):: CALL MAGNIFT: 4):: kanDOmllE 110 FOR CH=40 TO 134 STEP 8 11 CALL CHARICH, AS, CH+4, 36): : MEIT CH 120 C=2 11 5=40 11 K=1 11 F0 R T=1 TO 24 STEP 2 #1 COL+15 OIRMO+SU :: CALL SPRITE(OT, S , C, R, CUL, #T+1, S+4, C+1, R, COL) 11 5=5+8 11 C=C+1 11 K=R+15 il MEIT T 140 FOK T=1 TO 50 11 CALL CO LOR(#INT(24#RND+1). INT(14#RN D+1));; hEXT T :: 50TB 120

Tais is one that I functed up, hased on a sprite routine written by a youngster maned Andrew Sorenson, published in the Sydney Memsdigest from Australia.

100 : MILL O' MISP by Jie Feterson based on Andrew Sorensen's socite routine 110 CALL CLEAR :: CALL SCREE N(2):: Ch=48 120 FOR CH=48 TU &3 tt FUR L #1 10 4 11 MANDONIZE 11 I=IX T(168RMD+1182-1 t: 15#5E65(* QQ18243C425A667EB199A5BBC3BB E7FF*,1,2):: B\$=86&18 :: C6= 184CS II NEIT L II CALL CHAR CH. WS&CS111 BB,CS#** 11 MEI T CH 130 FUK N=1 10 28 :: CALL SP kite (on.CA. INI (148RND+3). BEN +20,120,5,03ts MEST N 11 IF

Here are a few more enhancements to my home Loader, published in Tips 015. Delete line 150 and add

101 OPTION BASE 1 :: DIR P68
(127):: ON MARNING NEIT :: 6
TO 110
05 8,A,A+,B,C,D+,FLEE,1,3,K,KD,KK,N+,NN,P+,P5613,B+,S,S
T,T8(),TT,VT,I
CALL INIT :: CALL LOAD :: CA
LL LINK :: CALL PEEK :: CALL
KEY :: CALL SCREEN :: CALL
COLOR :: CALL CLEAR :: CALL
VCHAR :: CALL SOUND :: 12P-

The pre-scan will speed up run time by a worthwhile amount. The warning default will prevent a screen scroll on an erroneous Enter.

When you're finished printing strip labels, cut off the strip BEMIND the plates and roll it FORMARD! Tou'll waste a few labels that way, but if you try to roll backwards and get a quesy label stuck in the works, you've got trouble!

REMORY FULL

Jie Peterson the Tigercub