

CALL DEWSLETTER

VOLUME III NUMBER 6

JULY 1985

Atlanta, Georgia

THE NEW! NEWER! NEWEST!!!

99/8

Faster then a bullet, stronger than a speeding train, able to leap tall buildings ... etc.. Anybody remember that old radio program? Or am I really dating myself. Well it seems to me that we once again have this mysterious creature amongst us. Only this time its name is 99/8.

- Again and again the discussion among 99/4A addicts are the rumors about the new, soon to be released 99/8. First though for those who are still unaware of this dark force that abounds allow me to discuss what a 99/8 seems to basically be:

 1) A computer using TI's 9995 chip, a third generation chip. That means a chip that was programmed by a program written and run by a second generation machine, where only a portion of the program was written by human beings. It runs 10 to 14 times faster (depending on who is doing the comparing), than the 99/4A's 9900 chip. It has a clock speed of 10 megahertz (the 99/4A runs at 3.3mhz, and the IBM PC runs at 4.6mhz).

 2) RAM memory can be anywhere from 128K to
- PC runs at 4.6mhz).

 2) RAM memory can be anywhere from 128K to 1MK on the main board.

 3) It is compatible with the 99/4A in terms of logic and language, therefore anything written for the 99/4A will be useable on the 99/8.

 4) It is capable of all sorts of expansions. In terms of language, operating systems etc.

NOW FOR SOME HISTORY:

The original machine was to be brought out by TI, but like many other things that were supposed to be released by TI, it too never came to be. However some prototypes were built and have surfaced from time to time. They had two CFU's aboard, one the 9995 and one 9900 a switch on the machine allowed you to choose which one you allowed you to choose which one you wanted to use. I've been told that using the 9995 chip and INVADERS looked like a blitz rather then a game.

Then CorComp published an ambitious plan to replace all of TI's hardware with their own. However they got bogged down in problems with the cards they were building, and then with a replacement P-BOX. Finally wound up in Chapter 11. And although they are now getting out of the problems and starting to move forward, their plans for a big F-BOX and a new computer have been dropped.

Finally MYARC is rumored to be building a new 99/8. This is the company who a year or more ago produced the first and only hard disk drive for the 99/4A. They did

(Con't on page 10)

TI I S OUT!

Reprinted from MICROpendium April 1985

It took more than a year but Texas Instruments is finally out of the home computer market. II will continue to service its home computer, but vendors will no longer be able to obtain software from the company. Texas Instruments plans to bury thousands of "over-produced" cartridges, such as II Invaders and Munchman, in a landfill, but because the cartridges contain minute quantities of lead the actual burial will be carried out by a company that specializes in the by a company that specializes in the disposal of products containing lead. Some vendors have stocked up on TI cartridges and expect to maintain inventory of most titles for some time to come.

(Ed's notes:)

Earlier in the year TI had all remaining stocks of 99/4A computers smashed, and buried also by a company that specializes in the removal of waste products.

Except for the Extended Basic Cartridge, it appears that no other TI program for the 99/4A has been licensed. I do hope that there are enough brave programming souls out there to fill the upcoming void.

SYSOP NEEDED

For anyone trying to reach the club BBS you are aware that the Board is down.

Bob Willis who has done the job since the beginning, and who also is the club librarian, no longer has the necessary time to devote to the BBS.

We need someone who has the space to set the board up at their home or office and can run the BBS. You must be able to devote a little time to it each day or two so that garbage, and foul language do not show up in the message base. We also would like a committment to the BBS for a one year period.

All interested fledging SYSOP's please see Gary or one of the officers at the next meeting.

New TI BBS in

Can you read the following message from the board?

•	•			_ • _		 	
• -	* *	1	1	. –	 	 - • • •	 • • •
	-						

(Con't on page 10, col 2)

President

CALL NEWSLETER

CALL NEWSLETTER is the voice of the Atlanta 99/4A Computer Users Group. P.O.Box 19841, Atlanta, GA. 30325. It is published at least 10 times a year. The A9CUG is not affiliated with any commercial company or organization. CALL NEWSLETTER is published by and for the members of the A9CUG to enhance their knowledge of home computers. CALL NEWSLETTER is composed of articles written and/or donated by members of our group and from articles appearing in other home computer users' groups around the world. Opinions expressed by the authors do not necessarily represent those of the Officers or members of the A9CUG. Permission is hereby granted to any users group recieving our newsletter to reproduce any article appearing in this newsletter, unless the article is otherwise noted, provided credit is given to the author and CALL NEWSLETTER. The ASCUG freely exchanges newsletters with other groups around the country. If another club would like to receiver our newsletter but does not have one of their own to exchange; we will gladly sent it to them. We do ask that they send \$5 a year or 50 cents a newsletter to help cover costs. Membership is open to family and individuals who own or are interested in using and programming home computers. Membership includes copies of this newsletter as they are published, access to the meetings of the main group and sub groups, and the groups Public Domain Library. Annual dues are \$15.00.

MEETINGS

The dates and times for the meetings of the Atlanta 99/4A Computer User's Group is the third Sunday of the month at the downtown Atlanta Public Library (off Margaret Mitchell Square) at 3 p.m. Whether or not to hold meetings this summer is still being considered. For more information call a club officer or 231-0992.

SOUTHSIDE chapter meetings—are held the first Sunday of the month at the Clayton County Recreation—Center—in Jonesboro, 101 Lake Jodeco Rd., meetings—begin at 3 p.m. For more information—call Francis Hauke at 461-7193.

EASTSIDE chapter holds regular meetings on the first Monday of every other month. For more information call Ralph Danson at 292-3427.

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CLUB SALES numerate Available at the Meetings

TI FORTH Members \$20 Non-members \$30 --- thru mail Members \$25 Non-members \$30 Diskettes \$1.50-\$2.00 Depending on brand Cassetes Tapes C-10, C-20, C-30 \$.90-\$1.10 Best of 99er Magazines as well as selected issues of Home Computer Magazine. The prepared diskettes are: \$3 Mm. \$4 Non-mem. 1 Line = a disk containing the following: (Some is FREEWARE- Please Support the Authors) SCREEN DUMP NEATLISTER Disko/MASSCOPY/TK-WRITER/Gothic Print/COMM99 TI-WRITER and MULTIPLAN Updates FORTH Source Code (2 single sided disks) Extended Basic FORTH TAX Forms & GA Sched.84(requires MULTIPLAN) ---Although for 84, can be modified for 85---TI Advanced Debugger TE3C - Advanced TE3 with source code SPRITE BUILDER - takes 2 single sided disks

The above diskettes are available through the mail at the same member/non-member cost.

NOTE: If you send us diskettes with return postage mailer there is no charge.

MYARC

32/128

RAMDISK

Once upon a time everybody else I knew had disk drives while I still was resigned to cassette tapes. Now things have improved somewhat. In my house are four DS/DD disk drives, two expansion boxes, a BPM clock card, a CorComp disk controller card, a TI 32K memory card, a Foundation 128K card, and a MYARC 32/128 Ramdisk memory card. Ramdisk memory card. In the past I have said nice things about the In the past I have said nice things about the Cor Comp disk controller and not so nice things about the Foundation 128K card. At this point the MYARC Ramdisk also belongs in that class where nice things should be said. An advertisers job is to point out the great features of his new product. If there are any disadvantages, don't expect to here about them from that source. For a complete picture a User's Group is supposed to do nicely. There, you have folks who expect and want the best from a product but will not hesitate to tell you about any drawbacks.

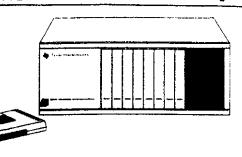
I just bought the MYARC 32/128K Ramdisk. My Foundation 128K card is now packed in a card board box. board box.
The purpose of a ramdisk is to give you almost instantaneous access to files or programs that are normally on a diskette. For example: When you put the TI Writer EDITA and FORMA files to the MYARC Ramdisk; the program is loaded by the time your finger leaves the 1 key for EDITOR. When you SAVE FILE or LOAD FILE the response is so fast that you start begrudging the time it used to take your disk drives to do anything. Any program that makes heavy use of file access would also benefit from having that file on the Ramdisk while you use that program. NAME-IT is another good example.

I've noticed a large increase in speed dealing with our 214 sector list of members of the club. board box. club. Here is what makes the MYARC Ramdisk worth its price of a bit over \$200: A true memory expansion card that will work that TI Extended Basic Speech program that the Foundation wouldn't.

A true Ramdisk that lets you access the 96K that it has above the basic 32K Expansion memory.
The ability to partition any or all of that 96K into a printer spooler. (A print spooler is like those \$150 extra memory buffers that you can buy to add to your printer.) Now when you print a several page file to your printer you get full use of your computer back a second after you press the button to start prints of the may take the printer several minutes to print it all out on paper but you don't have to wait. You have your computer back now.

True DSK1 emulation. In other words if a program cartridge like TI-Writer or Multiplan expects to find the program files on DSK1 then expects to find the program files on DSK1 then your Ramdisk can be DSK1 and you can even name it MP which is what Multiplan expects the disk to be called. Those features listed above make the card worth the money. What comes next is the grave: You can get a Directory of what's on the card at any time from Basic or XBasic with the command CALL RDDIR.





Using an external DC power supply, the card can retain what's in memory even when you power down the rest of the system, P-box included. More on this later,
The card will work with the TI Disk Manager 2.
It will work with the MYARC Disk Manager that
comes with the MYARC disk controller card. (I
say this on faith since I do not have the Myarc
disk controller card or the Myarc disk manager.) The Ramdisk card works perfectly well using the CorComp Disk Controller but at the present time the CorComp disk manager will not present time the CorComp disk manager will not address the Ramdisk. The command CALL EMDK(1) will cause the Ramdisk to be DSK1 and your floppy drive 1 is considered non-existant during this time. The CALL EMDK() command can make the Ramdisk 1,2,3,4,5, or 0 with 0 meaning it is no assigned disk drive. SAVE RD.filename or OLD RD.filename, works whether you have assigned it as DSK1-5 or not. The TI Disk Manager will only recognize the Ramdisk if it is DSK1-3.

recognize the Ramdisk if it is DSKI-3.

Other interesting facts or possibilities:
The Ramdisk is expandable to 512K. No one that
I am aware of has done this at the present
time. The Ramdisk has 16 chips that make up the
128K. They are in 4 banks (4 chips per bank).
These chips are called 16x4.

If you replace these 16x4 chips with sixteen
64x4 chips then you have upgraded your card to
512K. I have been told these 64x4 chips will
come down in price to about \$5 a chip. That
would make a do it yourself upgrade cost \$80, a
fair price in my opinion. Right now those chips
are more than \$5, enough so that I am not going
to go buy any. I also believe that is why MYARC
is not shipping or pricing a 512K card. I have
heard that the 99/4A can only accept 400K as
max on a disk so if you did have the 512K
upgrade the extra 112K would serve you best as
the printer spooler. Since I don't have 512K I
say this but cannot verify it.
An external power supply as mentioned earlier
can keep what's in the Ramdisk safe even after
everything else has been powered down. After
all who wants to keep that P Box blowing when
you don't have too. In the back of the Ramdisk
card is a receptacle for a sub miniature plug.
The tip of the plug is positive biased. The DC
power supply should be at least 7.5 Volts 500
ma. The ones I tried less than that were not
strong enough to hold the Ramdisk powered up.
Another fact worth mentioning is that you can
also wire a rechargeable battery in parallel
you have a power failure. I did do this
successfully but the battery I used was a small
you have a power failure. I did do this
successfully but the battery I used was a small
yout one that would only keep it up about
minute.
Just about any program that will run with the minute

minute.
Just about any program that will run with the TI Memory Expansion will run with the MYARC Ramdisk. The only exceptions I have found are some disk copy programs that use those areas of memory that are not supposed to be used. For example: MASSCOPY and QUICK COPIER2 by Larry Hughes. Larry Hughes was contacted and did reportedly change the program so it will work. For my money the MYARC Ramdisk is a very good buy and I await other products from MYARC.

Gary Matthews

40 COLUMN BY 24 LINES FOR 99/4A THE AND IN EXTENDED BASIC NO LESS

From the COMPUTER BRIBGE (Becember 1984) comes this beauty. Our thanks to Dr.Roy T.Tamashiro, Ed. D. for a great program.

I have often wanted to ues a 40-column screen in a BASIC program because you can put 43 percent more text on it than on the normal 28-column screen in basic. However, the 40-column screen is not available in TI-BASIC or EXTENDED BASIC, even though this 40-column screen is present in the II-99/4a ROM. The program below makes it possible to create and implement programs in EXTENDED BASIC on the 40-column screen. The 32-K Memory Expansion, the EXTENDED BASIC cartridge, and cassette or disk system are required. To access the 40-column screen, type in and save the program "FORTY-COLUMN TEXT SCREEN FOR X-BASIC" (below, on disk or cassette. Then compose your program for the 40-column screen.

To turn on the 40-column screen in your program, use the instruction, CALL LINK("FORTY"). You may use most of the normal EXTENDED BASIC instructions, but make the following substitutions:

EXTENDED BASIC INSTRUCTIONS: CALL CLEAR INPUT, LINPUT, or ACCEPT AT CALL COLOR, CALL SCREEN

REPLACE WITH THIS FORMAT:

CALL LINK("CLS")

CALL LINK("INPUT", ROWS(1-24), COLUMNS(1-40), String Variable

CALL LINK("DISPL", ROWS(1-24), COLUMNS(1-40), String Variable

CALL COLORS(Foreground, Background) (If you wish to change the colors of the characters on the screen, add lines 16000 to 16020 in the SAMPLE PROGRAM below to your program as the last routine in your program. This makes it possible to use the above CALL COLORS(Foreground, Background) instruction. Use the color codes(1-16) normally used in BASIC to designate foreground and background colors. See example in the "SAMPLE PROGRAM" below.)

Do not use SPRITE instructions (CALL SPRITE, CALL MAGNIFY, CALL COINC, etc.) on the 40-column screen. Other instructions such as CALL HCHAR and CALL GCHAR work, but since they are oriented to the 32-column screen rather than the 40-column screen, the locations are confusing.

To switch back to the normal 32-column screen in EXTENDED BASIC, use the instructions, CALL LINK("BSCRN"). Be sure to include this CALL LINK when you exit the EXTENDED BASIC program— otherwise your program will not be visible on the screen. (See line 200 in the "SAMPLE PROGRAM" below.)

Note that the new INPUT and DISPLAY instructions use string variables only. Thus, numeric variables must be converted before or after these CALLs. For example, to DISPLAY a numeric variable, use the following model:

210 N=1::N\$=STR\$(N)::CALL LINK("DISPL",24,1,N\$)

(In this example, the value in N, which is 1, is converted to the string variable N# and displayed at row 24, column 1.)

Or, to INPUT a numeric variable:

230 CALL LINK("INPUT", 24, 1, N\$)::N=VAL(N\$)

(In this example, a number is accepted at row 24. column 1 and assigned to N.)

To RUM your program, first load and RUM the program below ("FORTY-COLUMN TEXT SCREEN FOR X-BASIC"), then load and RUM your program. As long as you do not use CALL INIT or load another Assembly Language program, you can run your program without re-RUMning the "FORTY-COLUMN TEXT" program.

100 | *************** 110 ! * FORTY-COLUMN TEXT

120 ! * SCREEN FOR X-BASIC *

130 | ***************

140 ! AUTHOR: ROY T. TAMASHI RO, ED.D

150 ! DECEMBER 1984, X-BASIC W/ MEMORY EXPANSION

155 ! FIRST LOAD AND RUN THI S PROGRAM. THEN LOAD AND RUN YOUR PROGRAM.

160 ! AS LONG AS YOU DO NOT DO A 'CALL INIT' OR LOAD AN 'ASSEMBLY',

165 ! YOU CAN RUN YOUR PROGR AM WITHOUT RERUNNING THIS ON

170 CALL INIT

180 CALL LOAD(8196,63,216):: CALL LOAD(16344,66,83,67,82 ,78,32,50,108,68,73,83,80,*7*6 ,32,48,190) 190 CALL LOAD(16360,73,78,80 ,'85, 84, 32, 49, 36, 67, 76, 83, 32, 32,32,48,78,70,79,82,84,89,3 2,48,38) 200 CALL LOAD(12288,8,31,16, 0,50,190,0,0,0,0,1,108,51,18 8,0,0,0,0,0,0,2,12,50,116) 210 CALL LOAD(12312,215,32,4 7,190,215,32,47,191,13,0,1,1 08, 2, 107, 2, 224, 131, 224, 2, 1, 2 40,129,216,1) 220 CALL LOAD(12336,131,212, 216, 1, 140, 2, 6, 193, 216, 1, 140, 2, 2, 1, 245, 135, 216, 1, 140, 2, 6, 193, 216, 1)

230 CALL LOAD(12360,140,2,4, 96, 48, 86, 2, 224, 48, 0, 6, 160, 48 ,98,4,224,131,124,2,224,131, 224, 4, 96) 240 CALL LOAD(12384,0,112,4, 192, 2, 1, 128, 0, 4, 32, 32, 32, 5, 1 28, 2, 128, 3, 192, 22, 250, 4, 91, 2 ,1) 250 CALL LOAD(12408,0,1,4,19... 2, 4, 32, 32, 12, 200, 32, 131, 74, 4 8, 36, 192, 224, 48, 36, 2, 67, 0, 25 5,2,2) 260 CALL LOAD(12432,255,216, 2,34,0,40,6,3,22,252,290,2,4 8,34,2,1,0,2,4,192,4,32,32,1 270 CALL LOAD(12456,200,32,1 31,74,48,36,192,96,48,36,2,6 5,0,255,6,1,168,1,48,34,4,91 ,2,224)

280 CALL LOAD(12480.48.0.6.1 60, 48, 118, 2, 1, 255, 0, 216, 1, 50 ,189,2,1,0,3,4,192,2,2,50,18 9) 290 CALL LOAD(12504, 4, 32, 32, 20, 4, 197, 209, 96, 50, 189, 6, 197 ,2,6,50,190,192,32,48,34,6,1 60,49,28) 300 CALL LOAD(12528, 4, 193, 19 2,86,2,33,96,0,4,32,32,32,5, 128, 6, 160, 49, 28, 6, 5, 19, 9, 6, 1 93) 310 CALL LOAD(12552,2,33,96, 0, 4, 32, 32, 32, 5, 198, 5, 128, 6, 5 ,22,236,4,96,48,86,2,128,3,1 92) 320 CALL LOAD(12576,21,251,4 ,91,2,224,48,0,2,2,1,0,2,1,3 2,0,216,129,50,190,6,2,22,25 2) 330 CALL LOAD(12600,6,160,48 ,118,2,1,0,255,192,32,48,34, 160,64,2,129,3,192,18,2,2,1, 3,192) 340 CALL LOAD(12624,200,1,48 ,36,4,196,193,64,2,1,32,0,21 7,1,50,191,2,1,126,0,4,32,32 ,32) 350 CALL LOAD(12648,2,1,5,0, 216, 1, 131, 116, 6, 160, 50, 34, 21 6, 32, 131, 117, 48, 32, 4, 193, 208 ,96,131,117) 360 CALL LOAD(12672,192,5,2, 129, 13, 0, 22, 18, 2, 1, 128, 0, 4, 3 2,32,32,4,224,131,124,4,192, 2,1) 370 CALL LOAD(12696,0,3,6,19 6,216,4,50,190,2,2,50,190,4, 32, 32, 16, 4, 96, 48, 86, 2, 129, 7, 0)380 CALL LOAD(12720,22,13,2, 1,32,0,217,1,50,191,2,33,96, 0, 4, 32, 32, 32, 6, 0, 6, 4, 22, 245) 390 CALL LOAD(12744,4,96,49, 36, 2, 129, 8, 0, 22, 17, 2, 1, 32, 0, 217, 1, 50, 191, 2, 33, 96, 0, 4, 32) 400 CALL LOAD(12768, 32, 32, 6, 0,6,4,128,32,48,34,18,181,5, 132, 5, 128, 4, 96, 49, 86, 2, 129, 9 410 CALL LOAD(12792,22,2,2,1 ,32,0,2,129,32,0,17,169,217, 1,50,191,2,33,96,0,4,32,32,3 420 CALL LOAD(12816,5,132,5, 128, 136, 0, 48, 36, 18, 158, 6, 0, 6 ,4,4,96,49,86,4,193,2,0,32,0

430 CALL LOAD(12840,2,2,255, 0, 4, 32, 32, 28, 144, 32, 131, 124, 19, 26, 144, 160, 131, 117, 19, 243 ,2,3,0,5) 440 CALL LOAD(12864,6,3,2,1, 9, 192, 6, 1, 22, 254, 4, 32, 32, 28, 144, 32, 131, 124, 19, 11, 144, 160 ,131,117) 450 CALL LOAD(12888,19,228,4 , 32, 32, 28, 192, 195, 22, 239, 152 ,32,48,32,131,117,22,220,4,9 1,2,224,48,0) 460 CALL LOAD(12912.6.160.48 ,98,2,0,3,0,4,193,4,32,32,32 ,5,128,2,128,3,192,22,250,2, 470 CALL LOAD(12936,224,1,21 6,0,131,212,6,192,4,32,32,48 ,2,0,3,32,4,32,32,48,2,0,7,2 3) 480 CALL LOAD(12960,4,32,32, 48, 2, 0, 8, 0, 2, 1, 16, 0, 4, 32, 32, 32, 5, 128, 2, 128, 8, 31, 22, 250) 490 CALL LOAD(12984, 4, 96, 48, 86,0,255,0,32,32) 100 REM *SAMPLE PROGRAM * 110 CALL LINK("FORTY") 120 CALL LINK("CLS"):: CALL LINK("DISPL", 1, 15, "HELLO THE 130 CALL LINK("DISPL", 10,1," Foreground Color--Enter 1-16 :") 140 CALL LINK("INPUT", 10, 35, F\$):: F=VAL(F\$) 150 CALL LINK("DISFL", 12, 1, " Background Color--Enter 1-16 :") 160 CALL LINK("INPUT", 12, 35, B\$):: B=VAL(B\$) 170 CALL COLORS(F.B) 180 CALL LINK("DISPL", 23, 1, " Enter (1) to go on; or (2) t o exit:") 190 CALL LINK("INPUT", 23, 38, K#):: IF K##"1" THEN 120 200 CALL LINK("BSCRN"):: END 16000 SUB COLORS(F,B) 16010 CALL LOAD(12350,16*(F-1)+(B-1)):: CALL LINK("FORTY

16020 SUBEND

```
BREAKDANCING
10 REM
20 REM
30 REM
         by Travis Work
of Ringold GA
             Travis Works
         Reprinted from ENTER
40 REM
         Thanks to SPIRIT OF
50
99
   REM
         PRESS A NUMBER KEY A
60 REM
   THEY WILL CHANGE STEPS.
ND
         HOLD ONE KEY DOWN FO
70 REM
UR KEEP DANCING THE MIDDLE S
TAYS STILL
90 CALL CLEAR
100 RANDOMIZE
110 GOSUB 350
115 CALL CLEAR
                    BREAKDANCIN
120 PRINT
125 PRINT "HUMAN OR COMPUTER
 CONTROL???"
135 PRINT ::::
140 INPUT CON$
150 CALL CLEAR
160 IF SEG$(CON$, 1, 1)="H" TH
EN 220
170 BD=INT(RND*5)+153
190 IF E=1 THEN 220
200 GOSUB 280
210 GOTO 170
220 CALI
    CALL KEY(0,BD,N)
IF N=0 THEN 220
IF BD=32 THEN 170
230
240
                THEN 170
250 BD=BD+102
260 GOSUB 280
270 GOTO 220
280 CALL YCHAR(12,10,80+(INT
(RND*2))+1
290 CALL VCHAR(12,12,BD+(INT
(RND*2))+1)
300 CALL UCHAR(12,16,80)
310 CALL VCHAR(12, 20, BD+(INT
(RND*2))+1
 320 CALL VCHAR(12,22,8D+(INT
(ŘŇD¥2))+1)
330 RETURN
340 GOTO 220
           CHARACTERS
 350 REM
360 CALL CHAR(151, "000000000
4B84438")
370 CALL
8383854")
          CHAR(152, "000082443
380 CALL CHAR(153,"0010FE383
390 CALL CHAR( 154, "8090FC3A3
9484808")
          CHAR(155, "000000000
 400 CALL
0847936")
410 CALL
C281808")
           CHAR(156,"00107CBA7
 420 CALL CHAR(157,"142424783
8")
430 CALL CHAR(158,"41493E1C1
C2214")
440 CALL CHAR(159, "40281E1D1
 41414"
 450 RETURN
```

PROGRAM MODIFICATIONS

** MODIFICATIONS to MASTERDISK ** * By Larry Wilson *
Taken from the 99'ers UGA NL #11 10/84

Information from Pronto System Comm Link TI BBS in Tampa, Fla. For those of you with double-sided drives and MASTERDISK, the following modifications will allow the program to hold up to 250 disks of information or a listing for 3000 programs.

Place MASTERDISK onto a double-sided

3.

4.

Access the program named AD.
Call up line 540 and change "IF
DT(121" to "IF DT(251"
Call up line 550 and change "IF
PF)1100" to "IF PF>3000".
SAVE this revised program. Then RUN
the LOAD program and you will have a
double sided MASTERDISK.

CUSTOMIZED - MULTI-FLAN by Ted Anderson Pittsburgh Users Group

One of my hobbies is customizing programs I use frequently to my own systemand needs. MULTIPLAN normally requires initialization for dual disk drives and FID each time it is booted. Poking around with DISK-FIXER fixed the default configuration right on my back-up TIMP disk. The I/O parameters are set up on the MPINTR program file.

Interpretation of the disk directory shows MPINTR begining at sector 010F on my disk. Sector 0110 contains the only recognizable (ASCII interpreted) information, namely the DSK and PRINTER names. To change the default data file disk for DSK1 to DSK2 use any disk reading program to change the word beginning at address 0058 from 4B31 to 4B32. Likewise, to change th printer change the words beginning at 00BE to the ASCII code for FIO.EC: 5049 4F2E 4543 2020 2020 2020. A similar change can be made on DISK-FIXER itself (on disk only) at sector 23.

As you can see, poking around disks with DISK-FIXER can be a great adventure.. I'll report more in a later issue. Meanwhile, I'd like to hear from anyone who can achieve printer control codes from within MULTIPLAN or through SYLK files.

TI-WRITER ENHANCEMENT by Rob Goff MANNERS Newsletter

When I received the enhancements to the II-WRITER. I was quite pleased with what it provided, with the exception of the Text Formatter that defaults to an RS232 serial output. I personally, have a parallel printer output so I had to modify this setting each time I wanted to print a document. The other day I was browsing through the mail on CompuServe and ran across the solution to this problem. So

if you have a parallel printer (Ed. note: or any serial printer with a baud rate other than 1200) and want to change your default setings permanently, follow these instructions.

If you are changing the disk as it was received from the Club Library then power up DISKO and select option 1. goto section 50 Hex, the beginning of line 3. use FCTN 2 to switch to ASCII, and you will see "RS232.BA=1200". Position the curso over the "R" at the begining of the line and type "PIO.LF" then blockout the rest of the existing information, through "LF" with spaces. (Ed note: or change 1200 to the baud rate of your printer.). Next hit FCTN 8 and answer "Y" to the prompt. That's it. Now when you print out a document and come to the printer out a document and come to the printer default all youll need to do is hit ENTER and you are off and running.

In case you have transferred FORMA1 to your own disk, you can use option 2 of BISKO to locate the beginning of FORMA1 proceed ten (10) sectors, and you'll find the printer default information the printer default information.

TK-WRITER REVISIONS JACKSON COUNTY 99ers

If you have TK-Writer from Tom Knight, there is now a modification to the LOAD program that will cut down the wait when switching from the Editor to the Formatter. This wait is caused by the assembly language program being loaded back into the computer when the load program is rebooted. This assembly language program, however, is still present in memory if you haven't done something like turn off the computer or run some other program. Converting your LOAD program by replacing line 100 and adding lines 102,104, and 108. Line 100 checks to see if the assembly program is in memory. If not, it jumps to 108 and loads the program. If it is in memory, the REF/DEF table and last free address are loaded, and you can access the assembly code as usual. In plain talk, it will save a whole bunch of time.

>100 CALL CLEAR :: CALL INIT :: CALL PEEK(-2043, A.B):: IF A(>84 OR B(>75 THEN 108 >102 CALL LOAD(16360, 85, 84, 73, 76, 73, 84, 250, 212, 76, 77, 82, 77, 65, 84, 250, 132, 69, 68, 73, 84, 79, 82, 250, 22)
>104 CALL LOAD(8196, 63, 232)::
GOTO 110 >108 CALL LOAD("DSK1.WRITER")

The TK-WRITER loader program written by Tom Knight is a terrific program freeing Tom Knight is a terrific program freeing everyone from the necessity of using the TI-WRITER Module. There is one minor problem - bombing out the program by typing in "SD" for Show Birectory to cataloga disk. Once you become aware of this problem, you can avoid it. But here is a fix that modifies the EBITAI program so that if you press "SD" by mistake the program doesn't recognize the request and

returns to the command line with no loss of data. The sector that needs to be changed is the third sector of the EDITA1 program. The hex values at bytes >14 and >15 are >53 and >44 (ASCII S,B). change the >53 to >20 (space character). listed below are the printouts of a portion od the sector before and after the change.

ORIGINAL FORM

2D 54 53 48 3E OF 2D 54 52 45 3E 2C OC 2F CA 4D 20 3E 84 2F 42 53 44 3C D4 18 2E 4C 53 46 00 00 2E 8A 4C 46 00 00

ALTERED FORM

2D 54 53 48 3E OF 2D 54 52 45 3E 2C OC 2F CA 4D 20 3E 84 2F 42 20 44 3C D4 18 2E 4C 53 46 00 00 2E 8A 4C 46 00 00

This change is not very elegant but it does work - if you are using TK-WRITER. You will not be able to show Directory when you go back to your TI-WRITER cartridge after making this change. The decision is up to you. if you are only using TK-WRITER, it is an easy decision to

THE DEMISE OF THE

INTERNATIONAL USERS GROUP INC.

The following "letter" was taken from Jackson County 99ers Newsletter. Sinc Since we did not get a copy our reprint is a bit late. It also seems that there are several letters out there from the IUC on the same subject. differently. (Ed) Each worded a little

For those of you who are members of the International Users Group of Bethany, OK, and are waiting for programs you have ordered, the following letter may be of ordered. interest:

THE IUG HAS FILED FOR PROTECTION UNDER CHAPTER 7 OF THE FED. BANKRUPTCY ACT. ALL SOFTWARE LIBRARY ORDERS RECEIVED ON OR BEFORE APRIL 30,1985 WILL BE SHIFPED PRIOR TO MAY, 1985. WE HIGHLY REGRET THIS ACTION BUT HAVE NO OTHER ALTERNATIVEAT THIS POINT. THE CURRENT LIBRARY AS WELL AS SOME 400 NEW PROGRAMS HAVE BEEN KEPT INTACT AND WILL BE MARKETED BY A NEWLY FORMED COMPANY WHICH WILL BE ANNOUNCED ON 6/1.

THIS NEW COMPANY WILL USE THE CURRENT IUG CATALOGS AND PROGRAM NUMBERS SO THERE WILL BE NO CONFUSION TO NEW MEMBERS. I PERSONALLY FEEL DEEPLY SADDENED THAT THE QUALITY OF SERVICE THAT WE STRIVED FOR OVER THE FAST 5 YEARS HAS SUFFERED SO INDUR LAST 6 MONTHS OF OPERATION AND HOPE THAT OUR THOUSANDS OF MEMBERS AND FRIENDS CAN UNDERSTAND THAT WE DID EVERYTHING IN OUR POWER TO CONTINUE TO SUPPORT OUR MEMBERS TO THE BITTER END. FOR THOSE HOSTILE MEMBERS WHO SEEM TO THINK THAT I HAVE AMASSED A PERSONAL FORTUNE FROM THE IUG PLEASE REST ASSURED THAT THIS IS NOT

IUG PLEASE REST ASSURE.

THE CASE.

THE FACT IS THAT WE CURRENTLY STAND TO LOOSE "EVERYTHING" THAT VIRGINIA AND I HAVE WORKED FOR OVER THE PAST 20 YEARS TO ASSURE THAT OUR MEMBERS AND CREDITORS ARE

The Demise Of The IUG Inc. (Con't)

I must say I'm sorry to see the IUG go it was always a rallying point for 99/4A owners. I'm sorry that the owners of this Corporation acted the way that they did. ie using threats rather than cooperation to gain their ends.

I'm also sorry to see the statement in the second half of the first paragraph. Could these be the very same programs that the IUG had donated to them as public domain only to turn around and try to cover them with their own copyright.

I can not understand why the IUG with its userbase of tens of thousands could have fallen so quickly. With all those thousands of people to sell equipment and programs to it would seem that better use resources. No I do not beleive that La resources. No I do not beleive that La Fara made off with any personal fortune. I've been helping to run a users group too long to beleive that there is any large sum of money to be made.

I guess that what gets me is that several other commericial companies have made out well supplying 99/4A users. One of them, here in our own backyard, started on a shoestring yet continues to grow and prosper. Without the programs the IUG had access to, without the big name 99/4A-programers the IUG had access to, without the thousands of members the IUG had access to. If they can do it why didn't the IUG do it.

Marshall

TTTT	Ĭ	TTTTT	RRR R_R	I	ν _ν ,ν	I	A A	
T	I	T	RRR	Ι	VV	I	AAAA	111
<u>T</u>	Ĭ	Ţ	RR	I	V	I	A A	111
Ţ	I	Ť	R R	Ţ	V	I	A A	111

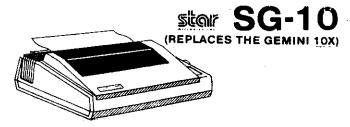
See how many of the following questions you can answer?

(ANSWERS ON PAGE 13)

- 1)What do the letters "C.P.U." designate?
 2)The TI 99/4A is a ___ bit computer.
 3)Where did the word "bit" come from?
 4)Where did the word "modem" come from?
 5)What does "BASIC" stand for?
 6)Who invented FORTH?

- 7) Why is FORTH not spelled FOURTH?
- 8)Exactly how many bytes are in a kilobyte?
 9)What is the CPU in the 99/4A?
 10)What is faster: Serial or Farallel

- 10)What is faster: Serial or Parallel data transmission?
 11)What does a VDT do?
 12)What came first: FORTRAN or BASIC?
 13)What was the first computer called?
 14)Who invented the first microprocessor? What year?
 15)Name the Three components of a C.f.U...
 16)TI BASIC is a compiled language. T/F?
 17)How much data can be saved on a SS/SD disk in 99/4a format?
 18)Where did the word "FORTRAN" come from?
 19)What is easier to learn: Quantum Physics or Graphic Programming Language?
- or Graphic Programming Language? 20)Name the TWO unconditional line transfers in basic.



SG-10 PRINTER

This is a review of the new Star Micronics SG-10 printer. The printer has several good points for everyday use with your TI-99/4A home computer.

your TI-99/4A home computer.

One nice thing about the new printer is the NLQ (Near Letter Quality) mode that the printer has. Another thing is that the SG-10 printer has a 2K buffer and not a 2 line buffer. The SG-10 prints at 120 cps like the Gemini-10X. They are almost the same with the exception of the NLQ mode and the 2K buffer.

The SG-10 for those of you who have an IBM fully supports all IBM charector modes. The SG-10 also has a bulit in charector set for graphics and is fully dot addressable. The printer will run around \$289.00 and the cable (PIO) will run about \$32.00 to \$34.00. (Ed. note: The prices in COMPUTER SHOPPER have been around \$240-250) So the printer is not that cheap but at the same time for all that it can do this appears to be a fair price. price.

The SG-10 users manual will explain to the first time user of a printer just how the printer works and what it can do. The manual does go into detail as to what commands you need to send the printer to get it to do the things that you need it to do. The manual does not tell you how to use the printer with a TI. If you stay with the Star Mode and use the examples for the IBM you will be able to use the

for the IBM you will be able to use the printers many functions.

The SG-10 has all of the DIP switchs on the left hand side of the printer. So the DIP switchs are easly accessed. With the near letter quailty mode the printer will decrease its speed from 120 cps to 100 cps. This is not that bad and the print is very good. In the NLQ mode the print has to make two passes. The first one is the main body of the letter and the second pass makes all of the curves. The NLQ mode has two charector sets and combines them as one inorder to get the near letter them as one inorder to get the near letter quality. For

the most part the SG-10 is an upgrade from the Gemini-10X printer. The SG-10 also uses a ribbon and not a cartridge. All in all if you don't have a printer and are thinking of getting on in the near future I would suggest the SG-10. I think that it is the best printer out

for any computer.

Faul H.

WHEW 4 (CON'T)

EP:B :: NEXT B 9 | CALL LGAB(-31878,0) 10 ACCEPT AT(14,14)SIZE(-1): A\$ 11 CALL LGAB(-31878,0)

FIO FRINTERS

ALL

It is possible to operate 2 parallel printers on one PIO port with a simple manual selector switch using a DPDT switch. The idea is that both printers can see the data, but only the one with access to the two handshake lines will print.

The pin connections I used are listed below. The two printers I am operating are a GEMINI 10% and a COMREX CR II. They have the standard parallel port pin arrangment The TI pin 10 handshake connects to pin 11 on the printer.

PIN CONNECTIONS:

TI SW PRNTR 1 PRNTR 2

01
10/
01
22
33
44
55
66
77
88
99
10 10
011
100/
011
12
13
14
15
163030

Fin 16 on the TI is grad and pin 30 on the printers is a more convenient grad.

I am NOT a specialist in the field of electronics. Use this information at your own risk.

(Ed note. Neither the club nor the author can take any responsibility for damage done if you use these plans. I doing all projects like this you must proceed at your own risk.

SHORT SHORTS

The following programs are short ones that have both interesting visual and programming features.

Do not type the spaces before and after the double colons (::) or several of the programs will not fit. Also when you have reached the end of a permissible line, hit ENTER, then EDIT the line to extend its legal length.

One more thing save these before you RUN them one or two of these will lock up your screen.

1 N=28 :: FOR X=4 TO N :: CA LL SPRITE(#X,60+X,X/2,N,N,X, M):: FOR Y=5 TO X :: CALL CO INC(#Y,#4,N+M,C):: M=M-C :: DISPLAY AT(4,7):M :: CALL JO YST(1,E,F):: CALL MOTION(#4, -2*F,2+E):: NEXT Y :: NEXT X

1 DIM A(255), C(254):: RANDOM IZE :: CALL PEEK(-31808, B):: IF B=0 OR A(B)=B THEN ELSE C(D)=B :: A(B)=B :: D=D+1 :: DISPLAY AT(24,1):A(B);D :: IF D=255 THEN END ELSE 1

1 CALL INIT :: CALL CLEAR :: CALL MAGNIFY(4)
2 FOR B=1 TO 10 :: FOR A=100 TO 255 :: PRINT A;:: CALL LO AD(-31873,-A):: PRINT CHR*(A);:: NEXT A :: NEXT B

100 CALL CLEAR
110 CALL CHAR(96,"0000041B05
3B01314F8F8F1C30282400000008
BB86C62E0E0F82424488")
120 CALL CHAR(100,"03000C020
D321514F8F0F3C5060A0000080408
BBC684E0E0E0F824120904")
130 CALL MAGNIFY(4):: CALL S
FRITE(#1,96,2,90,90,#2,100,2
90,90)
140 CALL MOTION(#1,-1,18,#2,-1,18)
150 FOR FLY=1 TO 40 :: FOR A
=1 TO 2
160 CALL COLOR(#A,1):: CALL
COLOR(#(3-A),2)
170 FOR X=1 TO 90 :: NEXT X

:: NEXT A :: NEXT FLY
180 CALL MAGNIFY(3):: GOTO 1
50

100 REM Barchart
110 REM THIS WILL PRODUCE A
RANDOM BAR CHART ON THE
SCREEN
120 CALL CLEAR
130 FOR SET=1 TO 31 STEP 2
140 CALL COLOR(SET/2,8,8)
150 A=INT(RND*24+1)
160 CALL VCHAR(24-A,SET+1,SE
T*4+31,A)
170 CALL VCHAR(24-A,SET+1,SE
T*4+31,A)
180 NEXT SET
190 FOR X=1 TO 16
200 CALL COLOR(X,X,X)
210 NEXT X
220 GOTO 220

120 REM * by David Vaughn 130 REM * VAUGHN SOFTWARE 160 REM YOU DON'T NEED TO TY FE THE REM STATEMENTS 170 REM 180 REM THIS PROGRAM IS IN E XTENDED BASIC 190 REM 200 REM 210 RANDOMIZE :: CALL CLEAR ## CALL SCREEN(2) 220 B=RND*190 :: CALL MAGNIF Y(1):: CALL CHAR(96,"B"):: F OR A=1 TO 28 :: CALL SPRITE(#A,96,8,95,10,10,SGN(95-B)*A):: NEXT A 230 D=RND*20 :: F OR A=1 28 :: CALL MOTION(#A,D,A*SGN (10-D)):: NEXT A : : C=C+1: (10-D)):: NEXT A : : C=C+1: : IF C=25 THEN GOTO 240 ELSE GOTO_230 240 FOR A=1 TO 28 :: CALL CO LOR(#A,RND*14+2):: NEXT A :: C=0 :: CALL MAGNIFY(2)
250 FOR A=1 TO 28 :: B=RND*1
4+2 :: CALL PATTERN(#A,46)::
CALL POSITION(#A,U,V):: CALL
MOTION(#A,SGN(96-U)*9,SGN(10
-V)*9):: NEXT A 260 FOR A=1 TO 28 :: CALL PA

TTERN(#A.96):= NEXT A := CAL L DELSPRITE(ALL):= GOTO 220

100 ! ****** SPRITEPEDE 110 120 by: Gary Christensen of TI B.U.G. 130 140 150 ******* 160 CALL CLEAR :: CALL SCREE N(16):: CALL COLOR(2,5,5):: CALL HCHAR(24,1,42,64):: CAL L VCHAR(1,31,42,96) 170 DISPLAY AT(1,9)SIZE(12): "SPRITEPEDE" 180 FOR A=4 TO 109 STEP 5 :: FOR B=1 TO 7 :: GOSUB 200 :: NEXT B :: NEXT A :: FOR A=10 9 TO 4 STEP -5 :: FOR B=7 TO 1 STEP -1 :: GOSUB 200 190 NEXT B :: NEXT A :: GOTO 180 200 CALL SPRITE(#B,42,2,8*3+A,128,#B+7,42,2,8*3+A+16,128,#B+14,42,2,8*3+A+32,128,#B+21,42,2,8*3+A+48,128):: RETU

1 ! WHEW4
2 CALL CLEAR :: PRINT "SET C
OLORS" :: FOR A=1 TO 12 :: C
ALL COLOR(A, 16, 4): NEXT A
3 PRINT "BUILD THE STR\$" ::
FOR A=0 TO 254 :: A\$=A\$&CHR\$
(A): NEXT A
4 PRINT "SHOW ALL CHARS" ::
FOR A=0 TO 31 STEP 2 :: B=1+
(A*8): DISPLAY AT(A/2+3,3):
SEG\$(A\$,B,B);" ";SEG\$(A\$
,B+8,8): NEXT A
5 PRINT "ANY KEY TO TEST CAL
L DAD"
6 CALL KEY(O,K,S):: IF S=0 T
HEN 6
7 FOR B=31 TO 125 :: CALL IN
IT :: CALL LOAD(-31878,B)
8 DISPLAY AT(14,5)SIZE(-5)BE

CON'T ON PAGE 8

THE NEW! NEWER! NEWEST!!!

(CDN'T)

it without fanfare or vaporware announcements. They built it, produced it, and it worked. They are now bring out a line of cards for the 99/4A's P-BOX, a disk controller, an RS232 card and a Memory Expansion Card. (Reviewed on page 3 Ed)

Lately however Lou Phillips has been giving interviews about the new machine. Every newsletter has been publishing details about the new machine. The following is an example, it comes from the newsletter of the Corpus Christi TI-99/4A Users Group, CC99'ER.

THE FRESIDENT'S CORNER By Lance Parr

of MYARC, on May 20th. He told me that the hardware had been designed, and that MYARC had secured everything it needed from TI to make the machine. (This is the GPL or Graphics Programming Language that TI uses in its GROM chips. Ed Note) He said that several "large, independent third party software houses" are busy writing software for the new machine, which he hopes will be in production sometime late this year. ...

Unfortunately the machine did not make the CES in June, and since then everyone speaking about the 99/8 has been backpedaling. The machine is out for BETA testing, the machine is not out for BETA testing. (Beta test means letting some potential consumers get their hands on the prototype to see what bugs they find. Ed note). The machine will have 128K, 512K, 1MK. It will be CPM compatible, it'll be IBM compatible. It'll have Forth or Fascal or Lisp in onboard ROM. The machine will have a full keyboard, it'll be a P-BOX card. It'll make use of the P-BOX it'll have no use for the P-BOX. And on and on, ad infinitum, ad nauseaum.

I like the 99/4A too much to turn up my mose at new products, especially one like this, but I can not see in this wealth of rumour what is and what is not. I am tired of hearing about new this and new that and never seeing anything. There are a lot of new products on the market and a lot of new products on the market and a lot of new software. I like a lot of it. I might purchase some of it, but with all the rumors I keep saying to myself 'If I wait just a little longer I'll be getting something bigger, better, that will have better software, I'll wait, and I'll wait. When the 99/4A dies from lack of support, I'll still be waiting.

If your waiting for, as another Georgia 99/4A newsletter editor has called it, the 99/8Messiah, you may very well be disappointed, learn to use what you have here and now. The 99/4A is still the best HOME COMPUTER around. The only difference is the lack of software, and that can be

remedied by supporting software authors that support the 99/4A. Too many are leaving the business because there are no purchasers for their goods. The large "independent" houses are looking at the profit end and do not see any, so they will not write for us. This will only end if they see that there are 99/4A Authors making a profit from the 99/4A.

Marshall

New TI BBS in town (Con't from page 1)

Larry Lord a local HAM has opened a board for other local HAM's. The board is open to all who wish to use it. I do not have operating hours at this time.

Give it a call and try it out. The local phone number is:

363-1640

This is a board that's really going to be interesting.

FORTH FORTH

SCR 849

THE FORTH CALENDAR

The following seven FORTH screens were submitted by 3 Rich Mubbard and produce the Calendar printed in last 4 months newsletter. The original program can be found in 5 'THE COMPLETE FORTH' by Alan F.T. Minfield. Permission 6 to reprint this corrected and edited version from the Copy 7 right book has been granted by the publisher-WILEY PRESS 8 Inc. Comments on each screen should HELP explain how the 9 program works. Screen 54 contains the 'words' to print a 18 yr or mo to your monitor. I.E. after typing 58 LOAD (EMTER). If type 1985 year (EMTER). The year 1985 starting with Jan. 12 will scroll up your monitor. Screen 856 was written by 13 Rich to print any calendar year or month from 1582 to 14 4982. You may have to alter these commands to match your 15 printer. Good luck & Happy FORTHing!

```
SCR 858
8 ( Calender Vocabulary, Zeller's congruence )
1 DECIMAL
2 FORTH DEFINITIONS
3 VOCABULARY calendar
4 calendar DEFINITIONS
5
6 8 VARIABLE Y 8 VARIABLE N 8 VARIABLE D
7 (Year, Month, Day )
8 8 VARIABLE a 8 VARIABLE b (work variables for janist )
9 : Janist (return the day, 8-6, of jan ist in year Y )
18 Y 2 1 - 188 / a ! *
11 Y 2 1 - 188 a 2 * - b !
12 799 b 2 * b 2 4 / + a 2 4 / + 2 a 2 * -
13 7 MOD ; (-> n )
14
15 51 LOAC 52 LOAD 53 LOAD 54 LOAD 55 LOAD
```

FORTH

12 13

CON'T

```
# ( Calendar Vocabulary, date checking words )
  1 31 VARIABLE doutable
 9 IF 1+ THEN; (a1 -) n2 )
18 (Check date within range, all return 'true' if NOT )
11 : Ycheck Y 2 DUP 1582 ( SMAP 4982 ) DR; (-) flag )
12 : Mcheck M 2 13 UC NOT ;
13 : Deheck D 2 1 - M 2 dom UC NOT ;
14 : datecheck Ycheck Mcheck Ocheck OR OR
15 Date error ABORT THEN ;
  8 (Calendar Vocabulary, dayamber and day) : C CONSTANT ;
1 1 C january 2 C february 3 C march 4 C april
2 5 C may 6 C june 7 C july 8 C august
3 9 C september 18 C october 11 C november 12 C december
  5: daynumber 6:13:0:00 ( calculate days up to date D/M/Y)
6: H 2:1 = IF ( Loop through months )
                                                 D 3 + LEAVE
                                                                          (until H=1)
                                              ELSE
                                                I dom + ( accumulate days )
 10
                            LOOP ;
 12 (calculate day of week of date D/MY, == 6)
13: D/MY janist daynumber + 1= 7 NOD; (=> n)
14: day Y! M! D! datecheck ( print day of date given )
15: D/MY printday; ( d m y => )
SCR 854
  8 ( calendar Vocabulary, month and year )
  D/H/Y
                                              ( calculate 1st day of month )
                    BANAY (Calculate 1st war or mounts , 4 a DUP SPACES chars! (go to day column) N 3 dpm 1+ 1 DU (step thru days in month) 1 4 .R 4 chars +! chars 2 24 ) IF CR CR 8 chars! THEN
                                             LOOP CR CR ;
                                                                                (my-))
  12 : year
                               Loop thru months )
I OVER month PAUSE DROP
DOP DROP
                                                  ( print whole year calendar )
                    13 1 00
  13
                             LOOP DROP ;
SCR 955
   8 (Calendar Vocabulary, yearend and daysleft)
1 8 VARIABLE Mend 8 VARIABLE Dend ( current end of year )
                    d (initialize end of year)

OUER OVER 2 = SMAP 29 = AND (29th of Feb?)

IF ." You can't be serious!" ABORT THEN

Hend! Dend!; (dm ->)
    2 : yearend
                    Mend! Dend!;
            aysinY (How many days in year Y)
Leap? IF 366 ELSE 365 THEN; (-) m)
aysleft (Number of days up to yearend)
Y! N! D! datecheck daynumber
Hend 2 M! Bend 2 D! datecheck daynumber
    & : daysinY
    8 : daysleft
             GUER DUER ) MOT IF ( specified date BEFORE yearend?)

SLAP -

ELSE daysiny SLAP -
  12
  13
14
                                               1 Y +! datecheck daynumber + .
                                                                             (dmy-))
 SCR 856
   # ( Calendar Print Options )
    ; Copens pio in compressed/m )
(line spacing at 9/72 in. )
                     15 Bill
   5 : JANSPACE SUCH SUP 13 188 27 38H UNSUCH ;
6 : FEBSPACE SUCH SUP 53 188 27 38H UNSUCH ;
7 : MARSPACE SUCH SUP 93 188 27 38H UNSUCH ;
    8
9: COLUMN 13 SMAP DO
10 UPER month PAUSE DROP
11 3 +LOOP DROP;
```

Scott, Foresman Educational Courseware

Scott, Foresman and Company, leading educational publisher, offers big savings on well known educational courseware for the Texas Instruments 99/4A microcomputer.

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	g Skills Courseware					natics Courseware :			
workely of re	nimels and story characters help existing skills. Bright graphics, m sciting learning streezphers.	usic, sma	sound a	hen å Hects	Brilliant use helps childri fundamenta	of color and animation illustra on practice and improve their g in-	respote	pts insur	rally. 1
Courtey	Tiele	Pres	Special Price	Tetal	Quartery	Tire	Pencin	Special Price	Tecal
117	Reading Reinbaws-Grade 1 (Comprehension)	\$39.95	84.95	:		Graphs and Subtraction 1.	#10 B5	14.61	
119	Reading Cheers-Grade 2	\$39.95	\$4.95	s		(Barra lasta Hveveh O)			
121	(Word identification) Reading Adventures-Grade 3 (Comprehension)	839.95	\$4.95	.		Grader 13 -	#38 A2	\$4.93	
123	Reading Trail-Grade 4	839 85	\$4.95	·	131	Augusta & Cross 4 &	309-95	-64.73	3
	(Literary understanding and appreciation)				130	Addition and Subtraction 3-	\$39 95	\$4.95	s
125	Reading Power-Grade 5 (Study and research)	639 95	84.85	5		Grades 2-4 (2-digit and 3-digit numbers)			
127	Reading Wonders-Grade 6 (Literary understanding and	839 85	84.95	·	132	Numeration 2-Grades 2-4 (Place value through 9 digits)	\$39.95	\$4.95	·
	approcusion)					Multiplication 1-Brades 3-4			
Mathen	natics Action Game	s			130	Decimals 1-Grades 3-4 (Meaning of decimals, addition	839.95	84.96	·—
	l involved in exciting adventures i math skills. Bound and music			kina.	174	and subtraction) Multiplication 2-Grades 3-5	839 95	84.95	
	Frog Jump-Grades K-3	639 95	\$4.95			(1-dig : multipliers)			
	(Counting and ordering numbers)					- Drawer - Condex - L			
179	Picture Ports-Grades K-3 (Basic facts)	130 95	\$4.05	1		Exercises 1 Control 1 Cont	839.93	84.83	•
187	Star Maza-Grades 4-6 (Division)	\$30 9 5	\$4.86	s	137	Fractions 2-Grades 4-7 (Like denominators)	\$39 95	84.95	1
185	Pyramid Puzzler-Grades 4-6	839.95	\$4.98	.	139	Decimals 2 Grades 5 6 (Multiplication of decimals)	639 95	\$4.95	s
184	(Multiplication) Number Bowling-Grades 7-8	239 95	84.05	£	Ali packag	es contain a Command Mo	dule and	compli	ele "
191	(Decimals and fractions) Space Journey-Grades 7-8	\$39 95	\$4.05	·	Veer's Guid	de.			
~	(Parcent)					Shippino en	Subtraction		1 40
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is worthwhile.

Especially since the sources of good educational programing for the TI are drying up. If you think your children can use some good Educational programs, this is one good source.

And apparently so do a lot of other people, because as you can see from the programs that have been lined through, Scott, Foresman is running out also.

I purchased about 10 of them when they first became available. If anyone would like to see them, let me know and I'll bring them to the next meeting. If there are enough people interested, we can have a meeting of the control of th meeting on these programs.



TIPS FROM THE TIGERCUB TIFS Ħ 13

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These Tips are distribut ed to Users' Groups in exchange for their newsletters - and in the faint hope that someday, somewhere, someone may buy some of my original programs. I have over 130 of them, at only \$3 each. My catalog costs a dollar, refundable on your first order. I give onerday service by 1st class mail, I give bonus programs Did you ever go through for repeat orders, I give free your checkbook 5 times in programs on disk orders, and l'm[®]still not getting any orders.

I'm told that someone actualy found a practical use for my number-scrambling routine, so here is an expanded version. It will scramble any sequence beginning with 1 and ending with any number less that 256 or any number greater that 256 which is evenly divisible by any number less than 256 and greater than 1, within the limits of computer memory. Extended Basic with Memory Expansion, the limit is about 10,700; if you reformat it to the limit is about basic and run it bare bones, you might get close to 13,000.

>100 CALL CLEAR :: OPEN #1:"P IO", OUTPUT >110 INPUT "HIGHEST NUMBER?"

HN :: IF HN(256 THEN TN=HN

:: XX=1 :: GOTO 150

>120 FOR TN=255 TO 2 STEP -1 IF HN/TH=INT(HN/TH)THEN 1

>130 NEXT TN :: PRINT HN: "IS NOT DIVISIBLE BY": "ANYTHING LESS THAN 256 - ": "CANNOT U SE" :: GOTO 110 >140 VV≔HN/TN

>150 DIM M\$(50)

NEXT J :: FOR J=1 TO XX :: M\$(J)=M\$(1):: NEXT J :: FOR J=1 TO HN :: TT=1+INT((J-1)/ Ž5Š) >170 RANDOMIZE :: X=INT(XX*RN D+1) = IF LEN(M\$(X))=0 THEN **17**0 >180 Y=INT(LEN(M\$(X))*RND+1)
>190 FRINT #1:ASC(SEG\$(M\$(X), Y,1))+TN*(X-1); >200 M\$(X)=SEG\$(M\$(X),1,Y-1)& SEG\$(M\$(X),Y+1,LEN(M\$(X)));; NEXT J

Here's a little routine you can use to jazz up your title screen or text.

14 >100 CALL CLEAR >110 DATA "THIS IS A DEMONSTR ATION", "OF THE", "TIGERCUB SO FTWARE", "TWO-WAY PRINT ROUT!)112 FOR T=1 TO 4)113 READ M\$ >120 IF LEN(M\$)/2=INT(LEN(M\$)

/2)THEN 135)130 M4+M\$8" ")131 GOTO 140)135 M\$=M\$8" >140 L=LEN(M\$)

>150 C=16-L/ }160 FOR J≡L/2 TO 1 STEP -1 >170 CALL HCHAR(10+T*2,C+J,AS C(SEG\$(M\$,J, 1)) >190 NEXT J >200 NEXT T

order to add up your gas bill, then your electric bill, etc? With this little handy-dandy, you can do it all in one pass

>100 CALL CLEAR
>110 REM ADDER-UPPER by: Jim Feterson >120 A\$="ABCDEFGHIJKLMNOPQRST UVWXYZ" >130 DIM C\$(26),T(26) >140 PRINT ADDER-UPP ER": >150 PRINT "WITH THIS PROGRAM YOU CAN GO THROUGH YOUR CHE CKBOOK, OR ANYTHING ELSE, AND ADD UP AMOUNTS IN SEVERAL CATE-" >160 PRINT "GORIES ALL AT ONE TIME.": :

>170 PRINT " FIRST, LIST THE CATEGORIES": "YOU WANT TO ADD UP.":" TYPE 'END' WHEN FINI

SHED.":
>180 PRINT " NEXT, ENTER THE CATEGORY":"CODE AND AMOUNT FOR EACH":"BILL"

>190 FRINT : : "WHEN YOU HAVE ENTERED ALL": "THE BILLS, TYP

>200 N=N+1 >200 N=N+1 >210 PRINT "CATEGORY #":N ":C\$(N

)230 IF C#(N)="END" THEN 340)240)250 W#=SEG#(C#(N),1,1)
IF POS(A#,W#,1)()0 THEN

>160 CALL CLEAR :: FOR J=1 TO >260 PRINT : CODE LET R ": W\$
TN :: M\$(1)=M\$(1)&CHR\$(J):: : ALREADY USED - FICK A CO LETTER .P >270 INPUT W\$ >280 GOTO 250)270 X=POS(A\$, W\$, 1))300 A\$=SEG\$(A\$,1,X-1)&SEG\$(A \$,X+1,LEN(A\$)) >310 X\$=X\$&W\$ >320 PRINT ""CODE LETTER FOR ";C\$(N);" WILL BE ";W\$: : >330 GOTO 200 >340 C\$(N)="" >350 N=N-1 X\$=X\$&!!=! >360 >370 FLAG=1 >390 PRINT : :"READY TO START ** >400 PRINT "WHEN FINISHED, TY >410 INPUT "DO YOU WANT TO VE RIFY EACH INPUT? ":V\$ >420 PRINT :"CODE (";X\$;")" >430 INPUT G\$ >440 IF Q\$="=" THEN 600 >450 510 IF POS(X\$, Q\$, 1)()0 THEN >460 FRINT "THAT IS NOT ONE O F THE CODES": : >470 INPUT "IS IT A NEW CATEG ORY?(Y/N) ":Q\$ >480 IF SEG\$(X\$,1,1), "Y" THE N 420 >490 X\$=SEG\$(X\$,1,LEN(X\$)-1) >500 GDTO 200)510 Y=POS(X\$,Q\$,1))520 INPUT "AMOUNT ?":A >530 580 IF SEG\$(V\$,1,1)="N" THEN >540 PRINT :C\$(Y);A: ; >550 INPUT "CORRECT? (Y/N)":L >560 IF SEG\$(L\$,1,1)="Y" THEN 580 >570 IF SEG\$(L\$,1,1)="N" THEN 420 ELSE 550 >580 T(Y)=T(Y)+A >590 GOTO 420)600 FOR J=1 TO N >610 PRINT EC\$(J); T(J) TT=TT+T(J) >630 NEXT >640 PRINT ="GRAND TOTAL OF A LL IS";TT

> And, did you ever wish that you could make numbers smaller, so that you could squeze more of them on a chart or graph? The problem is that resolution is so poor, at least on my TV screen, but maybe you'll find a use for this.

>100 REM - NUMBER SCRUNCHER programmed by Jim Peterson ... >110 CALL SCREEN(5) >120 FOR S=2 TO 14)130 CALL COLOR(S,15,1))140 NEXT S)150 CALL CLEAR >160 RANDOMIZE >170 DATA 75557,22222,25127,6 1216,55571,74616,74757,71222 ,75257,75711 >180 FOR J=0 TO 9 >190 READ C\$ >200 CH\$(J)="00"&C\$ >210 NEXT J CH=91

```
)230 INPUT "NUMBER? ":RX
)240 N$=STR$(RX)
)250 IF LEN(N$)/2=INT(LEN(N$)
/2)THEN 270
)260 N$="0"&N$
)270 FOR J=1 TO LEN(N$)STEP 2
)280 F1=VAL(SEG$(N$,J,1))
)290 F2=VAL(SEG$(N$,J+1,1))
)300 FOR T=1 TO 7
)310 Z$=Z$&SEG$(CH$(P1),T,1)&
SEG$(CH$(P2),T,1)
)320 NEXT T
)330 CALL CHAR(CH,Z$)
)340 Z$=""
)350 P$=P$&CHR$(CH)
)360 P$=CH+1
)370 NEXT J
)380 PRINT N$;" ";P$
)390 P$=""
)400 N$=""
)410 GOTO 230
```

Almost OUT OF MEMORY. Happy hackin' Jim Peterson

You may have observed that the Tigercub now possesses a Gemini iOX printer. The only fault I could find with it was that it wouldn't print Chinese, so I remedied that defect with this little program.

100 !THIS POUTINE INITIALIZE S THE GERINI 18% TO PRINT "C HINESE' UNTIL IT IS TURNED O FF - by Jim Peterson 110 SPEN 41: "PID" 128 PRINT #1:EHR#(27):EHR#(4 2): CHR\$ (0)::: CALL CLEAR 139 FOR CH=65 TO 98 :: PRINT *MORKING... :: FDR J=1 TO 7 :: FOR L=1 TO 9 :: RANDOMI ZE :: IF (INT(3#RND+1)<3)+((L>1) # (D(J,L-1)>0)) THEN 150 . 148 D(J,L).D(J,18-L)=(1+ABS(J)1))^1 150 NEXT L 168 NEXT J 170 FOR L=1 TD 9 :: FOR J=1 TD 7 :: X(L)=X(L)+D(J.L):: N EXT J :: NEXT L 188 PRINT #1:CHR\$(27);CHR\$(4 2); CHR\$(1); CHR\$(CH); CHR\$(1): EHR\$(X(1)); EHR\$(X(2)); CHR\$(X (3)); CHR\$(X(4)); CHR\$(X(5)); C HR\$(X(6));CHR\$(X(7));CHR\$(X(9)); CHR\${X(9)} 198 FOR J=1 TO 7 :: FOR L=1 TO 9 :: D(J,L)=0 :: NEXT L :: : MEXT J 200 FOR L=1 TO 9 :: X(L)=0 : ; NEXT L :: NEXT CH 219 PRINT #1: CHR\$(27); CHR\$(3 6); CHR\$ (1);

```
228 PRINT #1:CHR$(27);CHR$(8
7);CHR$(1)
238 PRINT #1:CHR$(27);CHR$(7
1)
248 STOP
```

Now, without turning off the printer, type LIST "PIO" or run any program that puts out text to the printer. It won't fool a Chinaman but it might impress your friends.

Here's a little spathing for you who own the Terminal Emulator II and the Speech Synthesizer. Maybe our Congressmen could use it to help them discuss the national debt.

100 CALL CLEAR

```
110 PRINT TAB(7): "NUMBER SPE
AKER": : : "by Jim Peterson":
       of Tigercub Software"
120 PRINT " This program wil
1 print any":" number of les
s than 67": digits in humber
s and in*
130 PRINT "words, and will s
peak the":"words.": : : : R
equires Terminal Emulator":"
II and Speech Synthesizer.*:
 : 1
140 CALL CHAR(39, *DODE DOCEDED
301820")
150 OPEN $1: "SPEECH", OUTPUT
168 DIM HIGHS (21), NNS (23)
170 DATA DNE, TWO. THREE, FOUR,
FIVE.SIX.SEVEN.EIGHT.NINE
180 DATA TEN, ELEVEN, TWELVE, T
HIRTEEN, FOURTEEN, FIFTEEN, SIX
TEEN, SEVENTEEN, EIGHTEEN, NINE
TEEN
198 DATA TWENTY, THIRTY, FORTY
,FIFTY,SIXTY,SEVENTY,EIGHTY.
MINETY
288 DATA THOUSAND, MILLION, BI
LLION, TRILLION, QUADRILLION, Q
WINTILLION, SEXTILLION, SEPTIL
LION, OCTILLION, NONILLION
218 DATA DECILLION, UNDECILLI
ON, DUOJECILLION, TREDECILLION
.QUATTUORDECILLION. BUINDECIL
LION, SEXTEDECILLION
229 DATA SEPTENDECILLION.OCT
ODECILLION, NOVEMBECILLION, VI
EINTILLION
238 FOR J=1 TO 9
249 READ DNES(J)
250-NEXT-J
```

```
260 FUR J=1 TO 18
270 READ TEENS(J)
280 NEXT J
290 FOR J=1 TO 8
300 READ TENS(J)
310 MEXT J
320 FDR J=1 TO 21
330 READ HIGHS(J)
340 NEXT J
350 PRINT : : :
369 PRINT #1: "NUMBER"
379 INPUT "NUMBER? ":NS
389 L=LEN(NS)
39# FDR J=1 TO L
400 IF POS("0123456789", SEG$
(MS.J.1).1)=0 THEN 360
410 NEXT J
420 IF (VAL(N$)<1)+(VAL(N$)<
SINT(VAL(NS)))THEN 360
430 IF L<67 THEN 470
448 PRINT "HEY! I CAN DNLY C
DUNT TO A": "VIGINTILLION!":
450 PRINT #1: "HAY I CAN ONLY
 COUNT TO A VIGINTILLION®
469 6DTD 368
478 IF VAL(NS)>0 THEN 519
486 PRINT : :"ZERO": :
498 PRINT #1:"ZERO"
500 60TO 360
518 IF L/3=INT(L/3)THEN 548
528 NS="0"&NS
530 5010 380
540 X=L/3
550 FOR J=1 TO L STEP 3
560 JJ=JJ+1
578 NN$(JJ)=SE6$(N$,J,3"
588 IF JOI THEN 618
598 PS=STRS(VAL(NNS(JJ)))
400 60T0 620 28 618 PS=PS&*** NNS(JJ)
628 WEIT J
630 PPINT : : :P$: : :
640 FDR J=1 TO X
658 605UB 678
669 E0TO 1158
678 IF VAL(NNS(J))(>8 THEN 7
19
686 As=**
698 FLA5=1
700 60TO 1140
710 FLAG=0
720 H=VAL(SEE$(NN$(J),1,1))
739 T=VAL (SE6$ (NN$ (J), 2, 2))
748 TT=VAL(SEG$(NN$(J),2,1))
-1
750 VV=VAL (SEE$ (NN$ (J) , 3, 1) )
760 IF T=0 THEN 1000
776 IF T>9 THEN 818
788 AS=DNES(T)
```

```
Page 14
  798 SPS=A$
  800 60TO 1000
  818 IF T>19 THEN B88
  828 AS=TEENS(T-9)
 836 IF T<>19 THEN 868
 848 SPS="NINE TEEN"
 858 60TO 1888
 860 SP$=45
 878 60TO 1008
 BBD IF VV()# THEN 958
 898 AS=TENS(TT)
 988 IF TT(>8 THEN 938
 918 SPS="NINE TEE"
 928 60TO 1886
 938 SF$=A$
 948 60TO 1888
 958 AS=TENS(TT)&"-"&ONES(VV)
 960 IF TT()8 THEN 990
 978 SPS="NINE TEE"&ONES(VV)
 986 60TO 1666
 998 SP$=A$
 1868 IF H=8 THEN 1888
 1010 IF T=0 THEN 1050
1020 AS=DNES(H)&" HUNDRED &
 "LAS
1838 SP4=DNE4(H)&* HUNDRED &
*LSP*
1848 SGTD 1146
1858 AS=ONES(H)&" HUNDRED"
1868 SPS=AS
1878 5010 1148
1686 IF (J(X)+(T=B)+(VAL(NS)
(100) THEN 1140
1898 As=" & "&As
1100 IF (TT(>8) #(T(>19) THEN
1130
1110 SP4=" & "4SP4
1126 50TO 1146
1138 SP$=A$
4146 RETURN
1150 PRINT AS
1168 IF FLAS=1 THEN 1288
1178 PRINT #1:SP#
1180 PRINT HIGHS (X-J)
1190 PRINT 01:HIGHS (X-J)
1200 GOSUB 678
1210 NEXT J
1229 PRINT BS
123# As=**
1248 JJ=8
1250 Rs=**
1260 Ps=**
1270 FOR D=1 TO 500
1286 NEXT D
```

1299 EDTO 358

```
I tope you noticed that all those
 zeros were neatly slashed so that you
 wouldn't mistake them for D's. Here's a
 little routine that will set up your
 printer to slash the 0's until you turn
 it off.
 126 OPEN #1:"PID"
 118 PRINT $1:CHR$ (27); CHR$ (4
 2); CHR$(#);
 128 PRINT #1:CHR$(27);CHR$(4
 2); CHR$(1); CHR$(48); CHR$(0);
 CHR$ (92) ; CHR$ (34) ; CHR$ (81) ; C
 MR$(8);CHR$(69);CHR$(2);CHR$
 (65); CHR$ (34); CHR$ (28)
 138 PRINT $1:CHR$ (27); CHR$ (3
 6):CHR$(1)
148 STOP
   And, somebody might get mad if I don't
 include a little music -
 188 REM - BELL MUSIC program
 med by Jia Peterson
 110 CALL CLEAR :: CALL SCREE
 N(5):: RANDOMIZE
 128 FOR CH=96 TO 136 STEP 4
 :: FOR L=1 TO 4 :: X$=SE6$("
 ##18243C425A667E8199A5BDC3DB
E7FF*.INT(16#RND+1)#2-1,2)::
 BS=BS&XS :: CS=XS&CS :: NEX
Ti
136 D4=B44C4 :: Z4=RPT4(D4.4
140 CALL CHAR(CH. 78):: BS.CS
.IS=NULS :: CALL MAGNIFY(4):
: CALL SPRITE(OCH/4-23, CH, IN
T(15#RND+2).255.255):: NEXT
142 FOR J=1 TO 10 STEP 2 ::
1=94RND-94RND :: Y=94RND-94R
MD :: CALL HOTION(#J.X.Y.#J+
1.X.Y):: NEXT J
152 FOR J=1 TO 20
155 CALL COLDR (#1NT(18#RND+1
1.INT(158RND+2))
160 FOR V=0 TO 16 STEP 4
178 ON J 60SUB 258,278,298,3
18,330,350,370,390,410,430,4
18,398,378,358,338,316,298,2
70,250,270,290,310,330,350
186 MEXT V
198 READ X
200 FOR D=1 TO X45
218 NEXT D
228 NEXT J
230 RESTORE
248 60TO 158
258 CALL SGUND (-999, 131, V, 52
3, V, 131/2, 30, -4, V)
268 RETURN
```

```
27# CALL SOUND (-999,185, V.18
7.V)
280 RETURN
29# CALL SOUND (-999, 196, V.19
9.V)
300 RETURN
319 CALL SOUND (-979, 262, V, 26
5.4)
320 RETURN
330 CALL SOUND (-999, 330, V, 33
3.4)
348 PETURN
350 CALL SOUND (-999, 392, V, 39
4. V)
360 RETURN
370 CALL SDUND(-999,523, V.39
2, 7, 330, 7)
380 RETURN
390 CALL SOUND (-999, 659, V, 66
6. V)
400 RETURN
416 CALL SOUND (-999,784, V, 79
2.V)
420 RETURN
430 CALL SOUND (-999, 1647, V. 1
857, V)
440 RETURN
450 DATA 16,16,2,16,8,16,4,4
,16,2,16,4,16,8,8,16,2,2,16,
4,2,8,16
```

Just about MEMORY FULL, so Happy hackin' Jim Peterson

Insert

Screwdriver

Turn gently

18th turn)

(No more than

Blade and

VHF CONNECTORS

Modulator

Protection

0

4 ونا 🔾

Compartment

Switch

TO T.V.

CONSOLE

Capac.

Comp.

THE FOLLOWING IS REPRINTED FROM THE CLUB 99 OF ATTLESBORO, MA.

BACKGROUND NOISE

WALTHAM FROM THE WE RECEIVED CENTER FOLLOWING THE EXCHANGE WHEN EXPERIENCING INFORMATION. BACKGROUND NOISE, SUCH AS HUMMING WITH THE R.F. MODULATOR. BUZZING. THE MODULATOR INTERNAL ADJUSTMENT IN ALLEVIATE THE PROBLEM. USUALLY THIS CAN BE ACCOMPLISHED BY THE STEPS BELOW. FOLLOWING THE PROCEDURE REFER TO THE DRAWING. THIS BE DONE WHILE ALL EQUIPMENT IS TO IF YOU HAVE THE OLD ON AND OPERATING. OF THE TI900 VIDIO MODULATOR. VERSION THIS PROCEDURE DOES NOT APPLY. MATERIALS REQUIRED: ONE SMALL. FLAT, THIN-BLADED SCREWDRIVER TO CORRECT THE

NOISE DIFFICULTY. TURN THE VOLUME OF THE

- WAY DOWN. BUT DO NOT TURN IT OFF. MASTER TITLE SCREEN ON
- SELECT THE THE COMPUTER FCTN = IF NECESSARY.
- 3 USING THE TITLE SCREEN COLOR GRID, TO THE BEST COLOR FINE TUNE THE TV PICTURE.

4 WITH THE SCREWDRIVER, PRY OFF THE LID OF THE MODULATOR BOX BY LIFTING UNDER ONE EDGE OF THE LID NEAR THE INDENTATIONS HOLDING IT ON.

5 LIFT OFF THE LID AND TURN THE TV VOLUME UP TO HALF.

- INTO THE SLOT OF THE SMALL BOX THE SCREWDRIVER THE BLADE OF LAABELLED CV1-SEE FIGURE- AND TURN IT SLIGHTLY UNTIL THE BACKGROUND IS AT A MINIMUM-THIS SHOULD TAKE LESS THAN 1/8 OF A TURN.
- THE MODULATOR LID EDGE BACK INTO PLACE, PUT IT BACK OVER AFTER BENDING THE MODULATOR BOX AND PRESS IT FIRMLY INTO PLACE UNTIL IT SNAPS. THE SYSTEM IS NOW READY FOR OPTIMUM USAGE.

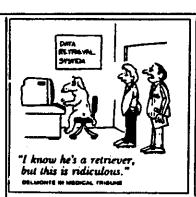
TI TRIVIA ANSWERS – TI TRIVIA ANSWERS

- 1)Central Processing Unit
- 2)16.

- 3)Binary digIT. 4)MOdulator DEModulator. 5)Beginners All-purpose Symbollic Instructional Code.
- 6)Charles Moore.
- 7)Because the IBM that Moore was creating FORTH on would only accept 5 letter file names. 8)2^10 Or 1024. 9)TMS9900.

- 10 Parallel, by a landslide. 11)It functions as a monitor. Video Display Terminal. 12)FORTRAN.
- 13)UNIVAC
- 14) Texas Instruments Laboratories.
- 15)Memory, Control and Arthimatic/Logic. 16)False, it is a translated language. 17)90 kilobytes, or 92160 bytes. 18)FORmula TRANslation.

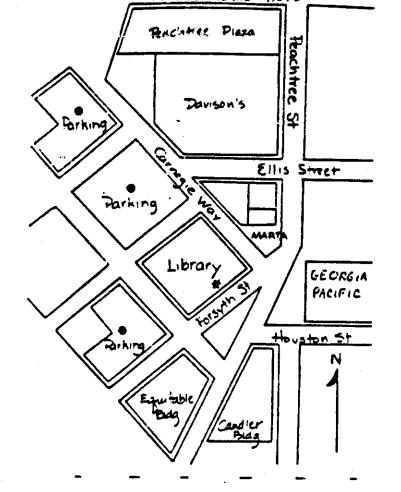
- 19)Quantum Physics 20)GOTO and GOSUB.







You mean that after unpacking the styroloom padding, the cushion layering, the thermodynamic seal, and plastic wropper, that's was left?"





NEXT MEETING:

SUNDAY, Aug 18 ATLANTA PUBLIC LIBRARY

3:00 P.M.

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AA DUES WERE DUE LAST MONTH
AAA THIS IS YOUR LAST NEWSLETTER