

CPUG NEWSLETTER

Volume 7 Number 8

99er

AUGUST, 1988

MINUTES FOR MONTHLY MEETING JULY 18, 1988

The meeting of the Central PA 99/44 Users Group came to order at 7:05 pm with 24 members present.

Our President reported that Bill Knecht had passed away on July 9th, and that a sympathy card had been sent to his widow from our Group. He will be missed by all of us.

Dave gave a brief description of the new programs that Barry is adding to the Library. He announced they were available for copying after the regular meeting. He also contributed two bundles of cassettes to the Group in order to enlarge our Cassette Library. (Thank you, Dave!)

Amos Meyers and his Refreshment committee met to work out the menu available at our TI EXPOSITION on October 16th, at the Carlisle Fairgrounds. Carol Himmelright will be able to supply equipment for cooking. Dave asked for the cooperation of ALL the membership for manpower needed at the EXPOSITION.

Our SYSOP announced that WIZ/TIB is progressing, with a possible message base and a network bulletin board system included.

No new word was received on the Myarc Hard Drive Controller. Daves' is still on order from QUEEN ANNE Computer Shoppe.

The meeting adjourned at 7:30pm, and the members devoted the rest of the evening copying discs from the Library, admiring Dave Hultbergs' new GIF pictures, and eating hot dogs. Discussions were going on by several people up until we turned out the

lights at 9:00 pm.

Respectfully submitted,
Dottie Swartz for
Barry Long, Secretary

NEXT MEETING: MONDAY SEPTEMBER 19th

DECIDING ABOUT THE 9640 ?

What TI user has not thought at least 111111 once about whether or not to buy the Myarc 9640 computer--the Geneva? It was long awaited; there are some mixed reviews there were some bugs; the cost is a factor; the itch to have IBM compatibility is in the back of the mind. Why buy the 9640 anyway?

John Johnson, of the Miami Users Group, wrote a piece in R/D computing on this topic. He recently "took the plunge," and spoke about why.

Briefly, John says he had "too much time invested" in his TI to abandon it for a totally new computer. The tricks learned, the friends met, all figured in. The 9640 was the solution, and he lists four primary benefits; (1) Speed, (2) The power of the display, (3) The keyboard, and (4) the 4A co-existence.

R/D's editor comments that the 9640 already has the principal software support that it takes to make it a viable machine in the future, and that the nearing end of TI's legal obligation for support makes the shift logical.

No one in the Charlotte group has a 9640 yet, April 1988.

Copied from; the Charlotte TI-994A User Group newsletter, April, 1988.

Prez's Corner
July 31, 1988
=====

Well, here is another month gone and STILL no Hard Disk Controller Card from MYARC. When last heard from (a CD on CompuServe a few weeks ago) Lou Phillips had finally learned not to promise delivery dates that could not be met. When can we expect delivery? Depending on who you talk to, anywhere between 'any day now' and 'never'. Nothing like a nice solid answer. By the way, if you want to call MYARC for any reason, the numbers listed now are:

Basking Ridge NJ. (201)766-1700
Alabama (Guess Who) (205)854-5843
9am - 5pm CST

Funnelweb is now up to Ver. 4.11 with a July release of the latest. Some fixes to the MG and MH files (DM 1000), UTIL1, CF and CG (Configure program), DP (Sector editor), and updates to the FWDOCS/LOAD and /UTIL files. Haven't had time to do anything with this version yet but as with everything from FunnelWeb Farms, it looks good. One question from me... Is anyone else having trouble flagging a file to be used from Directory (Fcnt/7) when in Formatter?

So you wanna put up a TI BBS do you? Now there is better version of an already excellent BBS program called PARADIGM (pronounce PARA-DINE). Version 1.42 is now available and you can now even get a sample file containing just enough to run a demo on your SS/SD system! Perfect to demo at your UG meeting if you have people interested. Travis Watford and Mike Kimble are to be congratulated on doing an excellent job! By the way, this new version includes clock support for the CC TripleTech card, Geneve clock and MBP clock card. That's right, this version will run on the GENEVE! Now if we only had a Hard Drive controller card....

If you are reading this from outside the Harrisburg area, start planning to keep the day of Oct 16th free. That's the date of our 2nd annual Computer Exposition. This year we're holding it at the Carlisle Fairgrounds in co-operation with the Carlisle Amateur Radio Society. This year we are inviting ONLY TI vendors (hard and software) and vendors of supplies useful to the TI. If your UG is interested in participating in this show, feel free to contact us for more info.

That's all from this sun-parched corner. See you all next month.

>> Dave <<

A SPACE FILLER?!

Since its getting late and I've run out of articles to fill this last space, this can be your space to make notes.

I hope that you've used this space well. When I've learned how to use my new TI-Artist then I will have a better way of filling in. Until then doodle.

Kurt

COMPUTER USERS, MODEM USERS, SYSOPS
AND BBS USERS BEWARE!

I have been involved in telecommunications now for a few years, and as a result of it have met some of the nicest people I could ever hope to know! It has served as a means of information gathering, learning more about the computer, and sharing a rare kind of comradeship.

Enter the 'HACKER'! Yes, folks, they do exist, and they are still the veritable "thorn in the side" where telecommunications and bulletin board systems are concerned. They think nothing of calling a bbs and wreaking havoc by trying to 'crash' the system or erase a data base or tap into closed systems, stealing, if they can, highly classified information. It has been done in the past, and now the terminology 'hacker', has taken on a new shade of meaning.

I am referring to the 'hacker' who, using sophisticated computer equipment, has infiltrated the telephone systems, invading the privacy and security of private phone users as well as company and guarded systems. It was reported in the SEATTLE-POST INTELLIGENCER today (July 22, 1988) that our phone systems are very vulnerable to such 'hackers' as a result of computer-controlled switches replacing electromechanical call-routing equipment. An expert 'hacker' can illegally connect to the phone network via personal computers. If they know the proper commands, they can eavesdrop, ADD CALLS TO SOMEONE'S BILL, forward calls to another number or keep someone's line BUSY.

The Manager of electronic security operations in San Francisco (PACIFIC BELL TELEPHONE CO) disclosed the above in a memorandum and in an interview with company officials. He warned that an 'electronic intruder' could disable an entire central switching office for routing calls and could disrupt service to an entire neighborhood! Can you imagine the implications? "Organized crime groups or terrorists might use such technology to their advantage", he said.

This memo was provided by a teenage 'hacker' to the New York Times, stating that it had been obtained by a fellow

'hacker' who "illicitly eavesdropped on a facsimile transmission between Pacific Bell offices in San Francisco." Pacific Bell verified the memo as being "authentic", concluding that "the number of individuals capable of entering Pacific Bell operating systems is growing, and computer hackers are becoming more sophisticated." The memo mentioned two 'hackers' who were able to 'monitor each other's lines for fun', and 'seize another person's dial tone to make calls appear on their bill.' Another used his abilities to disconnect and tie up telephone services of people he didn't like, even going so far as to "add several custom-calling features to their lines to create larger bills."

When police searched the Southern California home of a man suspected of breaking into the computers of a Santa Cruz software company, they discovered that he could also gain access to ALL of Pacific Bell's Southern California switching computers! They found files containing codes and employee passwords for connecting with the Pacific Bell switching systems and related computers. He also had commands for controlling the equipment. They also reported a former programmer for Sun Microsystems who had done the same thing, but because of certain implications, the case was taken over by the federal government because "there are some potential national security overtones."

What we have here is a highly vulnerable and potentially dangerous situation that, if not corrected, could feasibly cause our telecommunications 'hobby' to go down the tubes! A 'hacker' has already tapped into the lines of a SysOp on the East Coast, running up a \$500 phone bill. The sad part of this situation is that this person has accused a member of the TI community for doing it. BBS numbers are a public commodity, and are available for all to see on any system one logs on. Most of the bbs's we call are not 'closed' systems, so I guess all SysOps are opening themselves up for such 'attacks'. So, folks, it's up to the honest users of modems and phone equipment to something about it, else we will have to deal with the possible eventuality of not having the freedom to call a bulletin board. THINK ABOUT IT!

*** Cynthia Becker ***

"SPRUCING IT UP !"

Written by:

Paul E. Scheidematle

Last month we covered a program called "A Poor Man's Loader". This month we will talk about sprucing it up... With a few personal touches. We're going to add several features such as: different screen and character colors, spreading the selection list more on the screen, clearing the screen and displaying the name of the program that was selected, and slowing down the flashing cursor.

We'll start with the screen and character colors. We will change Line 120, clear the screen and sets the screen color to black and the characters to white. These colors were chosen because I have a monitor. However this is a personal preference that can be set almost anyway that is pleasing to you! Like replacing the black with dark blue and white characters, or maybe a light yellow screen (11) with black lettering (2). To do this simply replace the screen color number (in this case (2) with the color of your choice), and replace the value (16) white in the call color statement to whatever color you would like the lettering to be.

Now to clearing the screen and displaying our selected choice on the screen. Rather than adding alot of extra information that is already in the program we will take advantage of what is there and add a few pieces here and there to use this info. First we will add a dimension statement. Line 125 will set aside 22 places in an array called A\$. A dimension statement becomes necessary in a program for setting aside space in memory to store data, though in this case the program is so small that the real reason here is that any array with more than 10 elements must be dimensioned. Here we use 22 because it is the max number of program names we wish to deal with. Here is another new line. Line 135 is the basic routine that determines how

the screen is setup. The first thing we had to do here was place the RESTORE and READ B statements that were in line 140 here. Now what we do is set the value of C to 1,2, or 3 based on the value of B. If B is greater than 11 we set C to 1. If B is less than 7 we set C to 3. And finally C is set to 2 if B is any other number. Now what this does in line 140 is to spread the lines by multiplying the loop value A times the C value. Or possibly put more simply the more programs you have listed the closer lines are together. So if B=1 to 6 the program names will be displayed on lines 3, 6, 9, 12, 15, 18. B=7 to 10 they are on lines 2, 4, 6, 8, 10, 12, 14, 16, 18, 20. And if B=11 to 22 they are on lines 1 thru 22. The new line 140 required 4 changes. The removal of the RESTORE and READ Statement for 'B' (as noted above) And by adding the (A) to the back side of the A\$ wherever it appears. 1) Thus as we do our READ, we also place each program name in the array, and 2) display that name on the screen for selection. One other new item here is the key we are using to spread-out the names on the screen, the value C. Here we multiply the value of C times the row value A (noted above).

Now line 215 was added to display the selection on screen. If RK (return key) value is greater than 65 (Exit program) then we clear the screen and display on line 12 "Loading...", on line 13 "" (nothing), and on line 14 the program name.

Finally in the SUB PROGRAM 'KEYPRESS', in line 310 we add our delay routine. In this case another Sub program is used to slow down the flashing cursor 'SUB DELAY(D)'. The value (9) in the CALL DELAY statement tells it how many times to go through a loop before returning to the execute the next statement. Remember here not only can you change this number to speed up the cursor (make the number smaller), but you can also make the cursor flash slower (make the number larger). However the slower you make it flash the slower the response time to your key press.

(continued next page)

POOR MAN'S LOADER

(continued)

Here is the complete listing of the modified program:

```

100 ! Simple Loader Call Keypress Demo
- Modified 3/88
110 ! By Paul E. Scheidemantle
120 CALL CLEAR :: CALL SCREEN(2) :: FOR
A=0 TO 14 :: CALL COLOR(A,16,1) :: NEXT
A
125 DIM A$(22)
130 ! MENU
135 RESTORE :: READ B :: IF B>11 THEN
C= 1 ELSE IF B<7 THEN C=3 ELSE C=2
140 FOR A=1 TO B :: READ A$(A)::
DISPLAY AT(A*C,4):CHR$(A+64)" - "A$(A)
:: B#=B#CHR$(A+64):: NEXT A
-----
150 ! SAVE # PROGRAMS (+1 for EXIT) IN
THIS DATA STATEMENT!
160 DATA 5
170 ! PLACE NAMES OF PROGRAMS HERE!
180 DATA EXIT PROGRAM,BATTLE SHIP,
LEMONDROP TREE,MANHOLE, STAR GALLERY
190 DISPLAY AT(24,1):" YOUR CHOICE:"
200 CALL KEYPRESS(24,23,B#,66,RK)
210 ! ADD LINE # OF NEXT PROGRAM TO BE
RUN IN LINE 220 SUCH AS 281,282,283
ETC!
215 IF RK>65 THEN DISPLAY AT(12,1)ERASE
ALL:"Loading....": "":A$(RK-64)
220 ON RK-64 GOTO 230,250,260,270,280
230 DISPLAY AT(24,1):" QUIT ARE YOU
SURE : (Y/N)" :: CALL
KEYPRESS(24,29,"YNyn",89,RK):: IF RK=89
OR RK=121 THEN CALL CLEAR :: END ELSE
190
240 ! PLACE RUN STATEMENTS HERE
CONSECUTIVELY!
250 RUN "DSK1.BATTLE"
260 RUN "DSK1.LEMONDROP"
270 RUN "DSK1.MANHOLE"
280 RUN "DSK1.STARGAL"
290 END
300 SUB KEYPRESS(ROW,COL,CHK$,DC,RK)
310 CALL KEY(3,RK,S) :: CALL HCHAR(ROW,
COL,32):: CALL DELAY (9):: IF S=0 THEN
CALL HCHAR(ROW,COL,DC):: CALL DELAY(9)
:: GOTO 310

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320 X=PDS(CHK$CHR$(13),CHR$(RK),1) ::
IF X=0 THEN 310 ELSE IF RK=13 THEN
RK=DC
330 IF RK>31 AND RK<128 THEN CALL
HCHAR(ROW,COL,RK)
340 SUBEND
350 SUB DELAY(D):: FOR A=1 TO D :: NEXT
A :: SUBEND

```

>>>> Programs you should know! <<<<<

By: Paul E. Scheidemantle

The words can be in the puzzle backward, forward, and diagonally. Circle them as you find them. You should be able to complete this puzzle in 20 minutes.

ARCHIVER	MUTIPLAN
ARTISTBORDERS	PARSEC
CHAINLINKSOLITARE	PICASSO
DMONETHOUSAND	REMINDME
FASTTERM	SEGREGATION
FUNNELWEB	TIARTIST
GRAPHX	TIRUNNER
JOLLYROGERLABELER	TIWRITER
JOYPAINT	USABLEDISKCATALOGER
MASSTRANSFER	WOODSTOCK

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X T F J U D M O N E T H O U S A N D A X
E J K G G N F M A S S - T R A N S F E R Z
I Z G H G R A P H X S O R G K F C E C V
W F N A T D Q O B B K E N W M S G R E M
I V W S P N O E E U V M Z E R O E R W Y
H E F Q Z S W E M I R F N E L L A C R S
G D Y H S L P T H E Y A D A E T N E P W
T Q P A E I S C T C L R T B I O T U E C
Z L C N K I R T Z P O A A L I I V X H N
T I N Y T A S B I B C L O T R N R Q J P
P U P R S A X T T K R S A W C E T K N B
F X A Y F D L S S E K G I O N C C J T O
I I M S K U I I G N E T E N E O B N Q X
T O O Z M T D D I R Y M U S T I I A I R
H O X Y R E R L G E D R R S P A X N D D
C T K A L Y N E E N I A D J P L S P K D
B Z B B L I S U I T P O B Y C J D R L W
G C A L A V Z M T M O E O U K W Z Z W T
O S O H S E E U R W P J M Y Z T O R G D
U J C A P R D E K W B B K W W G I R P F

```

```

1 !*****TINYSONAR*****
   *****A TINYGRAM*****
   ***BY MIKE STANFILL***
   *DALLAS TI USER GROUP**

2 CALL CLEAR :: RANDOMIZE ::
  FOR T=2 TO 24 :: CALL SPRIT
  E(#T,64,2,T*8-7,RND*254+1,0,
  RND*10-4,#25,79,2,1,125):: N
  EXT T :: DEF G=INT(RND*3)-1

3 CALL SPRITE(#27,33,1,RND*1
  91+1,RND*255+1,G,G)

4 CALL KEY(1,K,S):: IF S THE
  N CALL MOTTON(#25,((K=5)-(K=
  0))*4,((K=2)-(K+3))*4)

5 CALL DISTANCE(#27,#25,V)

6 J+SQR(V):: ON ERROR 7 :: C
  ALL POSITION(#25,U,P):: CALL
  COINC(#25,#INT(U+7)/8,8,H):
  : IF U<185 AND H THEN 9

7 IF J<91 THEN CALL SOUND(-9
  9,440,J/3):: IF J<18 THEN CA
  LL COLOR(#27,2,#27,1)

8 IF K=18 AND J<18 THEN A=A+
  1 :: CALL SOUND(500,-7,0)::
  CALL COLOR(#27,7,#27,1,#27,7
  ):: GOTO 3 ELSE 4^

9 PRINT "YOUR SHIP HIT A ICE
  BERG!": "YOU SUNK":A;"SUB!"

*****

1 !*****TINYWAVE*****
   *****A TINYGRAM*****
   ***BY JOHN WITTE*****
   *OMAHA TI USER GROUP**

2 CALL CLEAR :: CALL SCREEN(
  6):: CALL COLOR(5,1,1)

3 A$(1)="ABCDEFGGFEDCBAR" ::
  FOR I=1 TO 7 :: CALL CHAR(72
  -I,RPT$("0",2*I-2)&"FFFF",47
  ,"30303EFF7F3E1ED4")

4 A$(I+1)=SEG$(A$(I),2,12)&S
  EG$(A$(I),2,2):: NEXT I

6 FOR I=1 TO 12 :: T=T+1 ::
  PRINT A$(I+(I<7)*2*(I-7))&A$
  (1+I+(I<6)*2*(I-6)):: NEXT I

```

```

! 7 IF T=24 THEN CALL COLOR(5,
! 2,1):: T=0 :: GOTO 6 ELSE 6

```

OBITUARY

The following has been taken from the Phila Area Users Group via Reading-Berks 99ers

We were saddened to learn recently of the death of one of our most valued members, Someone Else. Someone's passing created a vacancy that will be difficult to fill. Else had been with us almost since our club was formed, and, during that time, Someone did far more than a normal person's share of the work. Whenever leadership was mentioned, this wonderful person was looked to for inspiration, as well as results.

It is often said, "Someone Else can work with the Group or Committee." Whenever there was a job to be done or a meeting to attend, one name was on everyone's list. "Let Someone Else do it."

Someone Else was a wonderful person, sometimes appearing superhuman. But a person can only do so much work. Were the truth be known, everyone just expected too much from Someone Else. Now Someone Else is gone, and we wonder what we are going to do.

Someone Else left a wonderful example to follow, but who is going to follow it? Who is going to do the things that Someone Else did?

Editors note: Someone Else will surely be missed by the Central Pa 99/4A Users Group. But, life continues, so maybe Someone Elses' cousin, "I'll Do It" will step in and fill the void.

SOME NEW NEWS / SOME OLD NEWS

Retrieved from the Southern Nevada Users' Group, on MDOS for the TI hybrid. I'm sure some know, but others might not know, so here it is!

MDOS is more than just a bare-bones operating system of limited usefulness, which is certainly NOT the case.

MDOS version 1.01, the most recent, is presently a complete DOS, capable of formatting from SS/SD to DS/QD, disk copying, file copying, disk checking, disk and file renaming, displaying disk name, disk comparing, erasing, protecting and unprotecting files, and also has the ability to do disk directories in several formats from displaying information on a single file to listing an entire disk on a single screen. The file handling commands support wildcards, (a character, usually the "*" or "?" which take the place of actual letters in a filename) so that files starting with the same letter or group of letters can be directoryed, erased, or copied as a batch. An "AUTOEXEC" file (a list of commands executed at power-up) can be custom tailored to meet the requirements of your system. The "TYPE" command allows the user to print DIS/VAR 80 files (I've found that DIS/VAR 40 also works) on the screen a page at a time or scroll, or dump them to printer. Any screen information, including directories, can be dumped to printer by pressing the Ctrl Prt Sc or Ctrl P keys together. As yet, "graphics" screen dumps are not available. Your modem can be used as an auto-dialler (if Hayes compatible) by typing "COPY CON RS232" pressing "ENTER", then type "ATDT1234567" and pressing CTRL Z. (The number you wish you to dial can be substituted for the "1234567" if you wish... smile) "COPY CON" simply means; COPY the following from the CONSOLE to the specified device, in this case RS232. "COPY CON PRN" will copy what you type to the printer after pressing Ctrl Z. I'm sure that I have missed many of the features of MDOS that DO work, but space is limited...

None of the commands in MDOS that were designed to work with hard drives work as of this writing, 6/29/88. However, the Myarc HFDC (Hard Floppy Disk Controller) is being shipped and works perfectly with 99-4A systems. The

TIMODE, SPOOL, and RAMDISK commands seem to be obsolete since the GPL loader handles all of them automatically. The SPEED command not only doesn't work, it slows MDOS down a bit if you try it. The GPL execution speed can be set with the F4 key before or after loading of the cartridge so it really doesn't matter. The page recall keys also do not work yet. The LIME command works fine but the DATE function has a slight bug in its code which is easily corrected by a program called "DATEFIX". This minor problem will be corrected in the next version of MDOS.

Presently, programs that runs out of the MDOS environment are in short supply but more are being written even as I write this. We currently have programs to change screen and character colors, editors, linkers, assemblers, terminal emulators, graphics demos, debugger, ASCII file readers, and last but certainly not least, GIF and Myarc.

Myarc stated that J. Peter Hoddie has been commissioned to finish MDOS, and that the links to the HFDC's DSR's have been completed, although some XDP's and portions of the Utility Library still require work. Myarc also stated that Peter estimated the time to completion to be two to four weeks. (The new RUMOR is that it IS finished and that it will be shipped in about a week.) During the interim, those of you who have not yet purchased the best possible upgrade to TI-99/4A, the Geneve 9640, could have your system up and running at three times the speed of your present 4A systems before the new MDOS gets here.

Since I am at the end of this article, this seems like the proper place to divulge another MDOS tip. If you would like to know how many sectors are available on a diskette, a quick way is to type in DIR Z* at the drive prompt. MDOS will do a directory of the disk and display only the files which begin with the letter "Z", then display the used and unused sectors. Very few of my disks have files starting with the letter "Z" so the information is displayed without having to wait for all of the file names to be printed. Warning do not attempt this on a ZORK disk! (grin)

Bob Sherburne

FOR THOSE INTERESTED:

SEPT. 11,88 GAITHERSBURG HAMFEST
(GAITHERSBURG, MD.)

SEPT.24/25, 88 YORK HAMFEST AND
COMPUTER SHOW

OCT. 16,88 2ND ANNUAL COMPUTER
EXPOSITION

SPONSORED BY: CPUG, HARRISBURG, PA

THIS YEAR WE WILL BE JOINING THE

CUMBERLAND COUNTY AMATEUR RADIO
SOCIETY

*IT WILL BE HELD AT THE CARLISLE
FAIRGROUNDS*

MORE INFORMATION AND DIRECTIONS LATER

FROM THE EDITOR:

AS ALWAYS IF YOU HAVE NOT WRITTEN AN
ARTICLE FOR THE NEWSLETTER NOW IS THE
TIME. I CAN ALWAYS USE INPUT FROM ANY
MEMBER, OR IF YOU HAVE SEEN AN
INTERESTING ARTICLE IN ANY PUBLICATION
GET IT TO ME AND I WILL TRY TO INCLUDE
IT.

FROM THE CO-EDITOR GHOSTWRITER:

Greetings! not only will I begin this
month as CO-EDITOR, but I will be
attempting to put the newsletter
together by myself as Terry is in the
processes of moving. Let's hope it
works! In this new position I will be
forced to expand my skills in the use
of the computer. For me this is good.
I have many other responsibilities which
take up my time just as each of you do
(I assume). Therefore this makes this
a new priority. This is the way I work
best.

Just as when I first purchased the

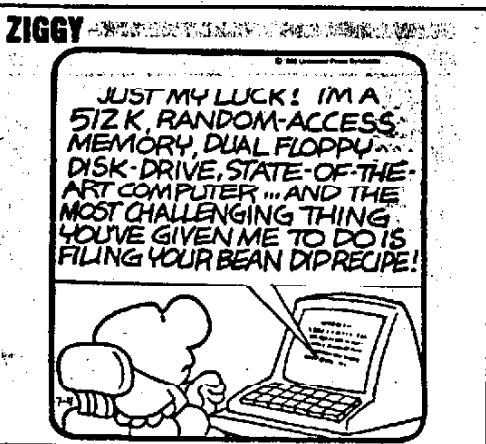
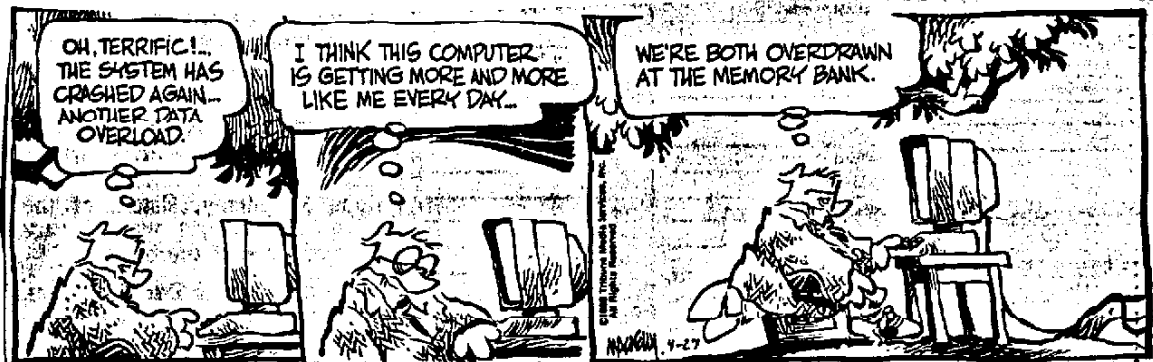
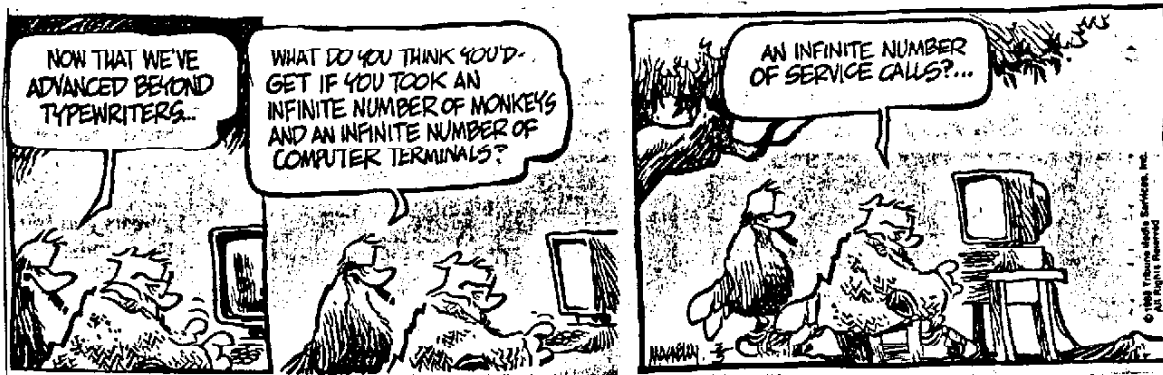
TI99A just a few short years ago. That
only seems like yesterday! When I
acquired the computer I had no idea
that there was so much to learn, and
learn, and learn.... It seemed as
though everyone just sat down at the
computer and began to draw graphs,
charts, spreadsheets, and graphics with
ease. How wrong I was! I quickly
learned that the console by it self
would not help me much. Then I heard
of a group called a user's group which
could help me to expand my skills.
Boy!, did I have a lot to learn. Since
then I've slowly step by step acquired
new skills and expanded my TI99 to
where it's doing some of those things I
had hoped to do effortlessly. The club
has been a great help to me in learning
and expanding, and I would like to take
this time to say thanks!, especilly to
Nick, the Swartz's, Dave and Dave,
Amos, Barry and all the other club
members that make it possible!

I owe Barry, (our resident TI-WRITER
expert), a special heart felt thanks
for tutoring me in the art of putting a
newsletter together. He makes it seem
easy, creating in editor, formatting
and then cleaning the control
charecters before printing with
multiprint. Saving and recalling files
and parts of files and merging other
files to hopefully have a nice two
column paper. Thank you Barry!

I have included articles from other
user groups newsletters which I had the
oppertutnity to peruse. Some very good
newsletter. I hope you find them
interesting and informative as I did.
In reading these I also discovered that
there are a lot of talented, dedicated,
TI users out there, who put a great
deal of heart into their groups to keep
the TI alive.

KURT SHOWERS
EDITOR

TI-TOONS



FROM
VARIOUS SOURCES

WE'LL LOOK FOR
YOU
AT THESE MEETINGS

Circle your Calendar with these meeting dates

JANUARY	18	JULY	18
FEBRUARY	15	AUGUST	15
MARCH	21	SEPTEMBER	{19}
APRIL	18	OCTOBER	17
MAY	16	NOVEMBER	21
JUNE	20	DECEMBER	19

All meetings begin at 7PM but the Group equipment will be up and ready for use at approximately 6PM.

All meetings are held at the CAMP HILL SHOPPING MALL COMMUNITY ROOM.

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This newsletter is published monthly by the Central Pa 99/4A Users Group. Material may be reproduced without permission provided the author and the source are acknowledged. If you desire more information about the Central Pa 99/4A Users Group, contact:

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WIZ/TIB BBS # 717-657-4992 or 717-657-4997 24hrs 7 Days-- SYSOP Dave Ratcliffe

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NEXT MEETING: SEPTEMBER 19, 1988 AT 7pm