

SBTIUG GENERAL MEETING JULY 7 1988

President Mike Ewell opened the meeting at 7:11 with 20 members present. Vice-president, Secretary and Librarian were absent due to illness.

Treasurer Kevin Daberkow gave a report on our treasury. We have \$583 at this time.

Newsletter editor Bill Schult announced the phone number of a new BBS and requested original articles for the newsletter.

Public relations officer reported on various flea market and computer shows in the immediate area.

Ray Keller requested help in solving a problem he has using his printer with FAST TERM. Several suggestions were offered by the general membership.

Don Apte asked questions about 'computer' insurance. President Mike Ewell explained his experiences with his computer insurance. He indicated a satisfactory result.

Chris Taylor announced that he is working on 3 new chips that will update the TI 99/4A. He stated these chips will replace the 9910A, 9919 and Basic Grom Patch chip. He further stated they will radically transform the TI, and wanted to know if there would be support from the TI community.

Chris Schram asked if Mike Ewell would upload new programs to our BBS.

BBS Sysop Keith Felix reported on the status of our BBS. He states it is up and running.

Christopher Hoopes, a new member requested help in resolving a problem he has with his PEB. It will only work on the RS232 card. Several suggestions were offered from the general membership.

General meeting was closed and a demonstration on Multiplan was given by President Mike Ewell.

TREASURERS REPORT
by Kevin Daberkow

PLEASE look at your mailing label to see if some color has been added. If your membership expiration date has been high-lighted in RED, this is your last issue until you renew. If your membership expiration date is in YELLOW, then you should renew at the June meeting.

>> THE DUES ARE \$15 PER YEAR <<

NOTE: Your membership expiration date can be found on the last line of your mailing label.

If any of the information on your label needs to be changed, please let me know. Call me at (408) 281-7435 or write to me at the following address:

SBTIUG - Treasurer
P.O. Box 23447
San Jose, CA 95153-3447

There were a BUNCH of renewals during the month of July: Ron Springer, Hoy Cole, Leo Boyd, Hal Christensen, Chris Schram, Pat Micetich and Elsa Pheley. Thank you for your continued support.

There were also a couple of new members welcomed to the club: Kyle Crichton, and Chris Hoopes. I encourage you to get involved and have fun!

The club paid out expenses of \$38.04 and \$25.85 for the June and July newsletter mailings respectively. The club BBS also recently purchased a new modem which has not been accounted for in the treasury balance given below.

This leaves a balance of \$672.84 in our treasury at the end of July.

EDITORS RAMBLINGS by Bill Schult

I would like to thank those that have contributed to the newsletter, especially Chris Schram for his article that appears in this issue. The help is deeply appreciated. It is nice to publish an original item.

We do however need more original articles. With the talent that we have in our group, with many members being employed in the computer industry, we should be able to come up with many interesting and informative articles that is of interest to our group and the TI community at large. . So do not be bashful, submit your articles. They may be in any format, as long as they are TI-Writer compatible.

In order to provide the membership with information of interest, the newsletter editor must know what the general membership desires to see in the newsletter. So let me know at the meeting or a phone call if you have a special need, so I can select those articles from other User's groups to include in our publication.

FOR SALE

TI 99/4A system with Console, PEB, RS232 card, TI-controller card, 32K memory, TI writer controller, Commodore 13" color monitor, TI coupler modem, TV display interface, power strip, printer cable, Joy Sticks, TI writer module, Disk Manager module, Terminal Emulator II module, disks with games and programs plus documentation.

\$400 Dave Fields day(408) 552-5404 eve(408) 988-5288

HOW MUCH LONGER, ANYWAY?
by Chris Schram

I wrote the subprograms described in this article to enhance the "feel" of Artist Enlarger manufactured by Asgard Software, As it turns out they are useful in other programs as well.

Artist Enlarger is written in TI Extended BASIC, a language not known for its blinding speed. The operations performed take a long time to accomplish, and the user is stuck watching a static screen wondering when the fool thing is going to finish. One solution is to add some kind of display to alert the user of the program's progress. This simple subprogram, CALL'd from within a long loop in the main program, displays in the lower right-hand corner of the screen the "percentage complete" of the offending loop:

```
30030 SUB PCT(FOR,T0):: DISP
LAY AT(24,26):USING "##%":FO
RO/T0 :: SUBEND
```

(Note that the variables "FOR" and "T0" are spelled using "ZERO" and not "OH". This is to give some hint to what kind of input is needed there without infringing on the BASIC interpreter's set of reserved words. The subprogram is called as in the following example:

100 ! Values of variables are assumed 101 ! to be already defined.

```
110 FOR X=1 TO A
```

```
#
# (program steps)
#
```

```
200 CALL PCT(X,A)
```

```
210 NEXT X
```

Artist Enlarger uses nested loops so some more subprograms must be added:

```
30010 SUB PCT3(FOR1,T01,FOR2
,T02,FOR3,T03):: CALL PCT((F
OR1-1)*T02+T03+(FOR2-1)*T03+
FOR3,T01*T02*T03):: SUBEND
```

```
30020 SUB PCT2(FOR1,T01,FOR2
,T02):: CALL PCT((FOR1-1)*T0
2+FOR2,T01*T02):: SUBEND
```

Used like this:

```
310 FOR X=1 TO A
```

```
320 FOR Y=1 TO B
```

```
#
# (program steps)
#
```

```
400 CALL PCT2(X,A,Y,B)
```

```
410 NEXT Y
```

```
420 NEXT X
```

```
510 FOR X=1 TO A
```

```
520 FOR Y=1 TO B
```

```
530 FOR Z=1 TO C
```

```
#
# (program steps)
#
```

```
600 CALL PCT3(X,A,Y,B,Z,C)
```

```
610 NEXT Z
```

```
620 NEXT Y
```

```
630 NEXT X
```

For those who wish to try it themselves, here are the lines I modified in Artist Enlarger to keep myself posted of its progress:

```
109 GOTO 129 :: A#,B#,C# ::
A1,B1,D1,A,B,C,D,E,F,G,H,I,J
,K,L,M,N,O,P,Q,R,S :: CALL C
HAR :: CALL CLEAR :: CALL CO
LOR :: CALL KEY :: CALL SCRE
EN :: CALL SOUND :: CALL PCT
:: CALL PCT2 :: CALL PCT3
```

```
609 PRINT #2:STR$(U(9))&","&
STR$(U(10))&","&STR$(U(11))&
","&STR$(U(12))&","&STR$(U(1
3))&","&STR$(U(14))&","&STR$
(U(15))&","&STR$(U(16)):: CA
LL PCT(C,A#B):: NEXT C :: RE
TURN
```

```
759 E$(H,2)=STR$(U(13))&","&
STR$(U(13))&","&STR$(U(14))&
","&STR$(U(14))&","&STR$(U(1
5))&","&STR$(U(15))&","&STR$
(U(16))&","&STR$(U(16)):: CA
LL PCT2(E,B,H,A):: NEXT H
```

```
814 CALL PCT2(E,B,F,A)
```

```

1459 CALL PCT3(D,B,P,A,F,15)
:: NEXT F :: PRINT #2:STR$(T
(1))&","&STR$(T(2))&","&STR$
(T(3))&","&STR$(T(4))&","&ST
R$(T(5))&","&STR$(T(6))&","&
STR$(T(7))&","&STR$(T(8))::
NEXT P :: NEXT D :: RETURN

```

```

1679 CALL PCT3(D,B,P,A,F,15)
:: NEXT F

```

```

2069 CALL PCT3(D,B,P,A,F,15)
:: NEXT F :: PRINT #2:STR$(T
(1))&","&STR$(T(2))&","&STR$
(T(3))&","&STR$(T(4))&","&ST
R$(T(5))&","&STR$(T(6))&","&
STR$(T(7))&","&STR$(T(8))::
NEXT P :: NEXT D :: RETURN

```

```

30000 !@P+ SAVE DSK1.PCT,MER
GE

```

```

30010 SUB PCT3(FOR1,T01,FOR2
,T02,FOR3,T03):: CALL PCT((F
OR1-1)*T02+T03+(FOR2-1)*T03+
FOR3,T01*T02*T03):: SUBEND

```

```

30020 SUB PCT2(FOR1,T01,FOR2
,T02):: CALL PCT((FOR1-1)*T0
2+FOR2,T01*T02):: SUBEND

```

```

30030 SUB PCT(FOR,T0):: DISP
LAY AT(24,26):USING "##%":FO
RO/T0 :: SUBEND

```

Note that this is not the only way this modification can be done, but it gives a general idea of what is possible.

ps: The version of Artist Enlarger I received (V2.1) had a microscopic bug in line 979. Change INPUT #1:A\$ to LINPUT #1:A\$.

PROGRAMMING AIDS 99
by Chris Schram

Did you know it is possible to redefine EXISTING subprograms in TI Extended BASIC?

Did you know it is possible to redefine characters 28 through 159 in TI Extended BASIC?

The following program is an enhancement of a program that appeared some time ago in MICROpendium. The main purpose of the enhancement is to allow the rotation of larger Instances

than was previously possible. CALL VDPUTIL4 must be executed before CALL CHAR, CALL COLOR, or CALL CHARPAT. Can you tell why CALL CLEAR was redefined?

```

1 ! SAVE DSK1.ROTATE

```

```

2 CALL VDPUTIL4 ! This shoul
d be line 2

```

```

100 REM ROTATE
BY S.JOHNSON AND D.WOOD
Extensions by C.Schram
* X-BASIC

```

```

110 REM rotates TI ARTIST
INSTANCES 90 degrees.
Run again, 180 degrees,
etc.

```

```

120 R$="0123456789ABCDEF" ::
CALL CHARPAT(30,C$):: CALL
CHARPAT(37,P$):: CALL CHAR(1
59,P$):: SC=28 :: TC=132

```

```

130 DISPLAY AT(1,1)ERASE ALL
:"ROTATE - JOHNSON/WOOD/SCHR
AM" :: DISPLAY AT(3,1):"INPU
T FILE? DSK1.FILENAME_I" ::
ACCEPT AT(3,14)SIZE(-15):F1
$

```

```

140 DISPLAY AT(5,1):"OUTPUT
FILE? DSK1.FILZNAME_I" :: AC
CEPT AT(5,14)SIZE(-15):F2$ :
: CALL CLEAR :: FOR C=0 TO 1
6 :: CALL COLOR(C,2,4):: NEX
T C

```

```

150 ON ERROR 370 :: OPEN #1:
F1$,INPUT :: OPEN #2:F2$,OUT
PUT :: INPUT #1:W,H

```

```

160 IF (W#H>TC)OR(W>24)THEN
DISPLAY AT(9,1):"THIS INSTAN
CE IS TOO LARGE": : "TO ROTAT
E. SORRY....." :: GOTO 35
0

```

```

170 FOR M=1 TO H :: FOR N=1
TO W :: INPUT #1:A(0),A(1),A
(2),A(3),A(4),A(5),A(6),A(7)

```

```

180 Y(0),Y(1),Y(2),Y(3),Y(4)
,Y(5),Y(6),Y(7)=0 :: FOR R=0
TO 7

```

```

190 Y(R)=Y(R)+(A(0)AND 1)*12
B :: A(0)=INT(A(0)/2)

```

```

200 Y(R)=Y(R)+(A(1)AND 1)*64
   :: A(1)=INT(A(1)/2)

210 Y(R)=Y(R)+(A(2)AND 1)*32
   :: A(2)=INT(A(2)/2)

220 Y(R)=Y(R)+(A(3)AND 1)*16
   :: A(3)=INT(A(3)/2)

230 Y(R)=Y(R)+(A(4)AND 1)*8
   :: A(4)=INT(A(4)/2)

240 Y(R)=Y(R)+(A(5)AND 1)*4
   :: A(5)=INT(A(5)/2)

250 Y(R)=Y(R)+(A(6)AND 1)*2
   :: A(6)=INT(A(6)/2)

260 Y(R)=Y(R)+(A(7)AND 1)::
A(7)=INT(A(7)/2):: NEXT R

270 X$="" :: FOR I=0 TO 7 ::
   B=INT(Y(I)/16)

280 X$=X$&SEG$(R$,B+1,1)&SEG
$(R$,Y(I)-B*16+1,1):: NEXT I
   :: CALL CHAR(SC+K,X$)

290 CALL HCHAR(24-(K-INT(K/W
)M),INT(K/M)+2,SC+K):: K=K+
1 :: CALL PCT2(M,H,N,N):: NE
XT M :: NEXT M :: CALL VCHAR
(1,31,0,24)

300 ON ERROR 390 :: PRINT #2
:STR$(H);",":STR$(M)

310 FOR R=W-1 TO 0 STEP -1 :
: FOR C=1 TO H :: CALL GCHAR
(24-R,C+1,K):: CALL CHARPAT(
K,B$)

320 FOR I=0 TO 7 :: T$=SEG$(
B$,2*I+1,2):: A(I)=(POS(R$,S
EG$(T$,1,1),1)-1)*16+POS(R$,
SEG$(T$,2,1),1)-1 :: NEXT I

330 PRINT #2:STR$(A(0));",":
STR$(A(1));",":STR$(A(2));",
":STR$(A(3));",":STR$(A(4));
",":STR$(A(5));",":STR$(A(6)
);",":STR$(A(7)):: CALL PCT2
(W-R,W,C,H)

340 NEXT C :: NEXT R :: CALL
SOUND(110,262,0):: CALL SOU
ND(110,330,0):: CALL SOUND(1
10,392,0):: CALL SOUND(298,5
23,0):: CALL SOUND(10,40000,
30)

```

```

350 CLOSE #1 :: CLOSE #2 ::
CALL CLEAR :: CALL CHARSET :
: CALL CHAR(30,C$):: CALL CH
AR(31,"0"):: CALL CHAR(159,P
$):: DISPLAY AT(2,1):"WANT T
O ROTATE MORE?(Y/N)N"

360 ACCEPT AT(2,26)SIZE(-1)V
ALIDATE("YNyn"):YN$ :: IF YN
$="Y" OR YN$="y" THEN K=0 ::
   GOTO 130 ELSE END

370 CALL CHARSET :: DISPLAY
AT(1,1):"!! DISK ERROR TRY
AGAIN!"

380 CALL SOUND(10,440,0):: F
OR DLY=1 TO 500 :: NEXT DLY
   :: RETURN 130

390 CALL CHARSET :: DISPLAY
AT(9,1):"!! DISK ERROR WRIT
ING!" :: CALL SOUND(10,440,0
):: RETURN 350

400 SUB CHAR(A,A$):: A$=A$&"
0000000000000000"

410 FOR B=1 TO 16 STEP 2 ::
C=ASC(SEG$(A$,B,1)):: D=ASC(
SEG$(A$,B+1,1)):: C=((C>57)*
7-48+C)*16+(D>57)*7-48+D

420 CALL LINK("POKEV",767+8*
A+(B+1)/2,C):: NEXT B :: SUB
END

430 SUB COLOR(A,B,C):: CALL
LINK("POKEV",2063+A,(B-1)*16
+C-1):: SUBEND

440 SUB CHARPAT(A,A$):: A$="
" :: H$="0123456789ABCDEF"

450 FOR B=1 TO 16 STEP 2 ::
CALL LINK("PEEKV",767+8*A+(B
+1)/2,C)

460 P=INT(C/16):: Q=C-P*16 :
: P=P :: A$=A$&SEG$(H$,P+1,1
)&SEG$(H$,Q+1,1):: NEXT B ::
   SUBEND

470 SUB VDPUTIL4 ! "POKEV",
PEEKV"

480 !"By Christopher Schram
1317 Cassland Ct.
San Jose, CA 95131
(408)926-4413"

```

490 CALL INIT

500 CALL LOAD(16368,80,79,75
,69,86,32,37,152)

510 CALL LOAD(16376,80,69,69
,75,86,32,37,24)

520 CALL LOAD(8194,38,0,63,2
40)

530 CALL LOAD(9460,65,114,99
,104,105,118,101,114,32,32,3
2,32,32,32,32,50,45,0,100
,108,117)

540 CALL LOAD(9482,109,110,1
15,32,32,32,32,32,32,84,1
14,97,99,2,224,37,8,3,0,0,0)

550 CALL LOAD(9504,2,0,0,100
,200,0,37,6,4,192,2,1,0,1,4,
32,32,12,4,32,32,24)

560 CALL LOAD(9526,18,184,19
2,32,131,74,2,1,36,244,208,1
60,131,18,9,130,2,34,255,255
,4,32)

570 CALL LOAD(9548,32,44,4,1
97,209,34,36,243,9,132,19,21
,4,195,60,224,37,6,200,5,131
,76)

580 CALL LOAD(9570,200,5,131
,78,200,5,131,80,2,5,64,0,16
1,68,2,131,0,1,17,6,2,5)

590 CALL LOAD(9592,65,0,161,
67,6,196,200,4,131,76,200,5,
131,74,4,192,192,66,5,129,4,
32)

600 CALL LOAD(9614,32,8,6,2,
22,221,4,96,37,242,2,224,37,
8,3,0,0,0,4,192,2,1)

610 CALL LOAD(9636,0,1,200,1
,37,6,4,32,32,12,4,32,32,24,
18,184,200,32,131,74,36,244)

620 CALL LOAD(9658,184,32,13
1,18,37,7,2,3,0,2,4,192,192,
67,4,32,32,12,4,32,32,24)

630 CALL LOAD(9680,18,184,21
6,224,131,75,36,244,5,131,13
6,3,37,6,22,242,192,32,36,24
4,2,1)

640 CALL LOAD(9702,36,246,19
2,131,2,34,255,254,4,32,32,3
6,4,192,216,0,131,124,2,224,
131,224)

650 CALL LOAD(9724,4,96,0,11
2,99,107)

660 SUBEND

670 SUB CLEAR :: CALL VCHAR(
1,1,0,32*24):: SUBEND

680 ! SAVE DSK1.PCT, MERGE

690 SUB PCT2(FOR1, T01, FOR2, T
02):: CALL PCT((FOR1-1)*T02+
FOR2, T01*T02):: SUBEND

700 SUB PCT(FOR, T0):: CALL V
CHAR(1,31,159, (FOR/T0)*24)::
SUBEND

The subprograms on lines 400 through 660 can be tacked onto the end of any Console BASIC program that uses "too many" character sets so the program will run in Extended BASIC.

ANSWER: The redefined CALL CLEAR fills the screen with

CHR\$(0) instead of the traditional CHR\$(32). To see why that was necessary, REM out line 670 and RUN the program.

MDOSTIP

The following comes courtesy of Steve Mickelson, Editor of Newsletter 979, 109-2356 Gerrard St. E Toronto M4E-2E2 Canada.

So you are bored with your Geneve and/or tired for waiting for the final version of MDOS, with new features.. Well don't look now, but there are a few undiscovered secrets inside your current version of MDOS. The following discoveries were found by fellow member, Gary Bowser, who called me last evening and let me discover what happened on my own 9640.

First boot MDOS as usual. At the A> prompt enter the following command XYZZY and see what you get. Not impressed? Well, we saved the best for last, at the A) prompt enter the following acommand DIR JP: and who says programmers take themselves too seriously!

Now if I can only figure out what the R command in MYWORD is looking for, (certainly not a REMIND ME file- I tried it). Playing with it can disable disk drive #2, though. Anyway, I hope the JP swan gets well soon.

LET'S TALK RAM DISKS PART 5
by John F. Willforth

The MEMORY PLUS card from CORCOMP appeared on the market almost two years ago, and to date I have not seen one. I therefore was hesitant to write this article. I had to depend on an article by Scott Darling as well as information provided by Willis Richardson and the technical support at CORCOMP. I hope that it will be complete and accurate enough to merit your consideration. I have tried to be as objective as possible on all the Ram Disks reviewed.

The MEMORY PLUS comes in both a PEB unit and a stand alone unit. The stand alone unit is more flexible in that it can be used in conjunction with your 32K expansion memory, while the PEB version can not. They both come in 256K as well as 512K sizes, again the stand alone can be configured with an added unit (two 512K units for example) and the PEB version cannot. Both units are supported by a 9V power supply to the ram disk card to support memory when a system is powered down normally. If a total failure of the AC occurs, you will lose all files on the MEMORY PLUS. This is a common failure of any Dynamic Ram based RAM DISK.

The MEMORY PLUS comes with the Disk Manager resident on the card, this is good for two reasons one is that you don't have to load it from a diskette, and two, it is the only one that gives you full use of the disk. The manager is called with "CALL RAMGR" for units with the newest PROM installed V3.1 or "CALL RMGR" with lower versions, a good way to tell what PROM you have in your MEMORY PLUS. The disk manager can initialize the disk, handle all disk and file functions as well as test the entire ram disk memory. The manager is very similar to the disk manager that comes with the Corcomp disk controller. It has some nice features, among them pressing a "T" when selecting to copy a file that is protected, will temporarily unprotect that file until the file has been copied. The resident disk manager will also work with other disk units in the system. A total of 2048 sectors is the default for a 512K and 1920 will be the limit if you wish for the 32K expansion memory to reside in this unit (required on a PEB only set-up).

A major drawback with the ram disk is in the fact that the entire disk is called as one volume. In other words if you intend to use "TIMP" for Multiplan, that is the only name that can be used for that entire unit. You will have to take this into consideration if you are a user of software that is dependent on specific volume (disk) names. Many of the other ram disks do allow for multiple volume names within a single ram disk unit.

The MEMORY PLUS, according to Scott, is able to work in the system with a different ram disk present. This could be a saving grace to compensate for it not accepting more volume names. You will have to set up CRU addresses for your card, which by the way are >1000 and >4000 for the MEMORY PLUS.

The drive number can be set with the disk manager or

under basic using a DELETE "SDx", where x is the drive # selected.

A lowercase with descenders is available for use by basic/xbasic simply by using a DELETE "LOWER".

There is a switch on the MEMORY PLUS which is of course located at the rear of the card (but has pins available for a remote connection) whose purpose is to assure an orderly power down of the PEB without glitching the ram disk and this switch should be used each time the PEB is powered down. A switch over of clock and flag settings will be done if this switch is pressed. I think this is a bothersome drawback.

I spoke of the PROM V3.1 which is available. Corcomp has corrected some problems such as a density identification problem in sector 0, and added the ability to catalog the disks to a serial, parallel port or to a disk.

The stand alone units are built by Corcomp as ordered, and any pricing should be checked with your CORCOMP dealer. CORCOMP has a good attitude of support for their products. Call them at (714) 630-2093 or write: CorComp Inc., 2211-G East Winston Road, Anaheim, Ca 92807.

By the way if you are still under a warranty CORCOMP will send you a new Prom and if your warranty has expired \$15 will update your MEMORY PLUS. I have used all the space available this month, so check back next month for a review of the GRAND RAM. (hopefully)

FUNNELWEB 4.0 BUG
reprinted from The SUNCOAST KEEPER

There is a bug when using funnelweb 4.0. When using FCTN 7, a marked file will NOT show up when you do a LF in the formatter. The corrections can be made using Funnelweb's Disk Patch program. Anyway, load in this or any other sector editor. Do this:

Find filename QD
Go to the third sector of this file.
At byte >BF change >06 to 07
At byte >CF change >7B to 72

Now find filename UTIL1
Go to the fifth sector of this file
At byte >29 change >06 to 07
At byte >39 change >7B to 72

That should do it. This came compliments of Charles Good of Lima, Oh. He is in communication with the McGovern's. They asked him to pass this correction on.

FCTN 7, AID will get you your QD, or Quick Directory, in the formatter. For further information, read the documentation file "TIMR", section (2), formatter, paragraph (ii). it's not difficult.