

NEW HAMPSHIRE 99ERS

NOVEMBER 1985



NH99UG NEWSLETTER - PO BOX 5991 - MANCHESTER, NH 03108-5991

VOL.3 NO.11

<<<LAST MINUTES>>>

The second meeting at our new meeting place (BONANZA in Bedford) proved to be all that we'd hoped for in terms of lighting, space (and this time no competition from the band!)

Pres. Curtis opened the meeting by announcing that Databiotics has presented a program by which User Groups will be eligible to purchase Databiotic products at 20% of cost. He will be investigating this and will report back to the club.

The treasurer's report by Helene brought the great news that we had 8 new members this past month and that the treasury is well over \$100 in the black!

Curtis presented a hardware "tidbit" to prevent accidentally writing over files on disk. He explained that there is either a microswitch or LED with a photoresistor which checks to see whether or not the write-protect notch on your disk is covered. He bypassed this function by installing a hardware switch on the front of his drive which disables the write ability of the drive when engaged. If you have a problem with writing over important files (oops!) see Curtis for details.

Curtis also demonstrated the OSCAR (Optical SCanning Reader) purchased by the club through Tex-Comp's close-out. Purchased with the scanning device were 29 BASIC programs in bar code which are read with the scanner. The general consensus of the group was that the device is difficult to use and it was obvious that the bar-coded listings are longer than the actual BASIC listing. If you're thinking about purchasing an OSCAR and missed this demo, be sure to borrow the club's unit before sending your bucks.

Curtis reviewed Millers Graphics "Explorer", a disk that allows you to view the inner workings of your TI on the CRT screen. Assembly language programmers and the curious will find this innovative program from Craig Miller to be an eye-opener!

Richard Bailey reviewed two new freeware disks in the club library. The first was a program (by Richard himself) which produces up to four bargraphs out of data input by the user with accompanying title and descriptive notation allowed. The second disk, from the Daytona User Group (DAYTONA99) contains several programs including a maillist, a "notebook", a Morse code generator, and a program called "Screenworks" which allows the user to try different combinations of background patterns and colors for text, background, and screen. If you like your programs to have a little pizzazz, this utility allows you to try

combinations first to see which combination gives you the effect you desire. These and other great disks are available through the club library. (Cassette users -- let us know your needs -- we are eager to help you too!)

Until next time

file closed--

Ellen Rule, Secretary

<<<RANDOM RAMBLINGS>>>

This column is the last one to be written before each newsletter is published. There are a few reasons for this: first (and probably foremost), I am procrastinator; secondly, I never considered myself much of a writer; and lastly, I like to give you the latest, most up-to-date news in the space which is left me.

The latest news is of the TI FAIRE which was held in Chicago earlier this month. Since none of our own membership was able to attend, I have reprinted an article from the HOCUS newsletter describing Gene Hitz' observations. Other groups have similar but more detailed info. Since it would be impractical to reprint all of them, look forward to reading them by checking out the November Out-Of-State Newsletter packets.

Back on the home front, the order to TEX-COMP was placed and confirmed on 11/14/85. As you know from reading the BULLETIN BOARD section of THIS Newsletter, TEX-COMP has just about the best prices on TI software. Club members placed a substantial order at the last meeting and by mail for various compuwares. We ordered a few extra items which will be available to all current members on a first come (with cash) first served basis. The following items will be available: TI ADVENTURE Module and DISK \$9+; TEII module \$12+; the book "Introduction to Assembly Language for the TI HC" \$6+; and the Editor Assembler package \$22+. Sorry, all the LOGO II's @ \$22 have been bought. If there is more interest we will place another order. Let us know! The "+" at the end of each price means that we must charge shipping on all mail orders. It is \$1 in each case. By the way, the shipment has not, as yet, arrived from CA.

<cont.>

On the other hand, the JHB Personal Data Management System shipment (try to say that one fast!) has arrived. Please refer to the enclosed member sheets for member costs. The PDM package is a combination of JHB Software DVECTOR and ADRS Systems. These systems are menu driven for major functions. Options and inputs are clearly prompted and well documented. Each system comes with a users manual and tutorial, along with operation hints. Menus, prompts and displays are illustrated. PDM requires XB, 32k, disk and preferably RS232. JHB Software generously offered user groups this software at the individual price, with permission of JHB Software to share copies with their members.

With the holidays encroaching upon us (that's right - encroaching - as a procrastinator there is NEVER enough time!) I thought I might suggest some gifts for your computers:

>Take a look at the HAC LAB ad in this edition. All items have been reduced, e.g., \$2 for a Power Supply; \$35 for PHP1250; etc. Check the latest Tenex catalog... their prices are 60% higher! (OK, I know that statement was self-serving, but they are great prices!)

>Consider a subscription to MICROPENDIUM (POB 1343 - Round Rock, TX 78680) \$18.50 for 12 issues via domestic mail. Last issue had 55 pages of ALL TI related articles. From the articles, reviews, User Notes, Feedback, etc. you'll wonder why you didn't subscribe sooner. (By the way, our own Richard J. Bailey introduced his freeware disk via MICROPENDIUM last month and Prez Curtis Provance's letter was published in the FEEDBACK section). Tell 'em we sent ya!

>Take a look at the NH99UG library (via the yellow member sheets which you receive with the newsletter). We have over 100 disks chock full of interesting programs.

>And last, but not least, enlist a friend into the user group.

Lastly, I would like to welcome our newest members to the User Group. October/November '85 just about set a record for new memberships. Thank you for your confidence. We welcome your ideas and your input. Please share your experiences - we'll all benefit!

Take note: Our club's Concord P.O.Box will be closed shortly. We have had a new address for over three months! Our new mailing address is:

NEW HAMPHIRE 99'ERS USER GROUP, INC.

POB 5991

Manchester, NH 03108-5991

We now meet at the BONANZA FAMILY RESTAURANT on Route 3 in Bedford. Our next meeting will be on MONDAY, December 2nd at 7:30 pm. Please remember to return loaned club materials at that time, so others may enjoy this member privilege.

?DM ERROR/ Helene M. LaBonville (603)472-3369

This past week we have received newsletters from groups from across the country who attended the recent TI FAIRE in Chicago. Below we have reprinted one such article from Gene Hitz of HOCUS (Milwaukee). If you would like further amplification we suggest you read NOTES ON THE NEW COMPUTER by J. Peter Hoddie (Boston Computer Society TI UG) on COMPUSERVE. For over 10 pages of info and comments on the show send \$1 to Boston Computer Society - TI USER GROUP - One Center Plaza - Boston 02108.

THE TI FAIRE AND THE NEW COMPUTER

Chicago's third annual TI FAIRE should put to rest, for a while anyway, any apprehension about the immediate future of our friendly little computer. The place was mobbed from start to finish with users from across the nation... a whole van load from Washington, D.C. on the east coast, the L.A. group from the west coast, several Canadian groups from way up north, and nearly 2 dozen of our friends from Milwaukee. All major hardware and software products were represented, selling and demonstrating. Sales were brisk and several vendors had sold out of some items early in the day.

The big draw, however, was the long expected introduction of the new TI compatible computer from MYARC. Many early visitors were disappointed at the announced late 2:00 pm showing and the upstairs meeting room filled up long before that. Patience was wearing thin as MYARC took advantage of the crowd's anticipation by using the first hour in hawking their other hardware products. Finally at 3:00, #1# began.

Groans, Disappointment, Disgust and more Groans
Still No Working Model

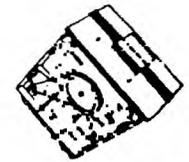
...but so close you could almost smell it.

They exhibited what they claimed was the motherboard, and an expanded keyboard shell with side numeric keypad, remarkably similar to the IBM PC except for the vertical cartridge slot on top. The introduction date has now been postponed to the first quarter of '86 with a demo at the January Consumer Electronics Show. The statistics were then presented but along with them, the distinct impression of possible future alterations.

256K RAM - 64K VDP - 64K ROM - supports up to 2 Megabytes - RS232 I/O - Parallel Output - 2 Expansion Ports - GPL ROM - Cartridge Port - MS Mouse - 9995 chip (2.3 times faster) - almost total compatibility with all software and hardware - a Japanese Display chip 9931 with Text Bit Map Multicolor and 7 Graphics modes featuring screen editing, up to 512 different colors, 80 columns, 512x424 pixels individually addressable, dual screens for animation effects, up to 10 sprites on a line, enhanced BASIC, a \$499 price range, an IBM compatible expansion card, and possibly even an internally connected speech synthesizer. So let us not lose faith but don't hold your breath!!!



INVENTORY CLOSEOUTS



N.B. THE NUMBERS IN PARENTHESES INDICATE SHIPPING WEIGHT

\$35+

TI MANUALS

ADVENTURE (2)	.25	MINI MEMORY (4)	\$1.00
ALPINE (2)	.50	MINUS MISSION (2)	.50
A-MAZE-ING (2)	.50	MUNCHMAN (1)	.50
BEGINNING GRAMMAR (3)	.50	MUSIC MAKER (3)	.75
BLACKJACK & POKER (2)	.50	NUMBER MAGIC	.50
BLASTO (1)	.25	PAFEE (2)	.25
BRUSHHOLM TRAIL (1)	.25	PERFECTAL RECD KEEPING (3)	1.00
CHARMS (2)	.50	READING ROUNDUP (2)	.50
MYSTERY FUN HOUSE (2)	.25	SPEECH EDITOR (3)	.75
EARLY LEARNING FUN (2)	.50	STATISTICS (4)	1.25
EARLY READING (2)	.50	TAY INVEST. RECORDING (4)	1.00
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SATURDAY NITE BINGO (2)	.50	TOMESVILLE CITY (1)	.25
INDOOR SOCCER (2)	.50	TOUCH TYPING TUTOR (2)	.50
LAWS OF ARITHMETIC (2)	.50	TUNNELS OF DOOM (3)	.75
MEASUREMENT FORMULAS (2)	.50	VIDEO-GRAPHS (3)	1.00
THE CAT (2) sl damaged	.15	INVOICE MANAGEMENT (5)	2.50
INVENTORY MANAGEMENT (4)	2.00	GOLDEN VOYAGE (2)	.25
SPELL WRITER (3)	1.00	OLDIES BUT GOODIES 1 (3)	.75
MUSIC MAKER DEMO (2)	.25		

BEGINNER'S BASIC (14)	\$ 5.00
BASIC'S REFERENCE GUIDE (24)	6.00
BASIC + USER'S REF. GUIDE (38)	9.00
TI EXTENDED BASIC (14)	5.00
TI LOGO SAMPLER (4)	1.00
CREATIVE PROGRAMMING FOR CHILDREN	
VOL I (12)	1.50
VOL III (12)	1.50
COMPUTER AWARENESS PROGRAM	
FOR CHILDREN (6)	1.50
FOR ADULTS (7)	1.00
PROGRAMMING DISCOVERY IN TI LOGO (6)	2.00
TI MULTIPLY (25)	5.00
EDITOR/ASSEMBLER (48)	5.00
UCSD P-SYSTEM COMPILER (20)	5.00
TI LOGO + LOGO SAMPLER (14)	4.00
DISK MEMORY DRIVE - PHP1250 (4)	1.00
DISK MEMORY SYSTEM - PHP1249 (7)	3.00
MEM. EXPANSION CARD - PHP1260 (3)	.75
PERIPHERAL BOX - PHP1200 (3)	.75
BASIC REFERENCE CARD (1)	.25
BLANK KEYBOARD OVERLAY (1)	.25

SHIPPING CHARGES: Add shipping weights FROM EACH ITEM ORDERED and ENTER total in the following CONSOLE BASIC program:

```

5 CALL CLEAR
10 INPUT "ENTER TOTAL SHIPPING WGT":WT
20 IF WT>9 THEN 60
30 SH = .55 + (WT*.2)
40 PRINT "PLEASE ADD $": SH
   "S/H CHARGE TO YOUR ORDER"
50 END
60 SH=2.5+INT(WT/16.1)*.5
70 GO TO 40

```

HAC LABS LTD.

HELENE M. LABONVILLE
121 CAMELOT DR., R.F.D. 5
BEDFORD, NH 03102

603-472-3369



===NEW PHP 1250 DISK DRIVES...\$35.00===
SHUGART 400L'S (5 1/4" full heights, 40 TPI SSDD encased with TI's aluminum housing). Each has been tested by HAC for data reliability and drive speed. Shipping and handling for EACH drive is \$3.00

(It costs more to have your heads re-aligned than to purchase these new drives which carry TI's 90 day warranty!) Hurry only fifteen left!

DISK DRIVE CABLES

12" 34 pin card edge to 34 pin card edge connectors (3)... \$6.00
14" 34 pin socket to 34 pin card edge connectors. (3)..... \$4.00

34 pin IDC Card Edge Connectors (1).....\$3.50
34 pin IDC Socket Connectors (1).....\$1.00

CBL1169 Power Splitter (2).....\$6.00
For disk drives - It splits a four line Molex male into two females.

CBL1156 Parallel Printer Cable (6).....\$19.00
Tested by manufacturer (IEC) to work on all but BANANA, OKIDATA, and SCM TP-1 printers.

IC Solder-tail Low Profile (Tin) Sockets (2)
14 pin...\$0.25 ea
16 pin...\$0.30 ea

6 Pin DIN CB-AUDIO PLUGS (2).....\$0.75 ea

NEW POWER TRANSFORMERS MOD# AC9500 (32) \$ 2.00
NEW VIDEO MODULATORS MOD#UM1381-1 (13) 5.00
DISKETTE MAILERS - hold up to 3ea- (4) 3 for 1.00
Foam lined DISKETTE MAILERS - holds 1 - (1) .75

SOFTWARE CLOSEOUTS

MICROPAL TI 99/4A EXTENDED BASIC (18).....\$50.00

Scott Foresman
DIVISION 1 (8) ages 8-11.....\$ 7.50
PICTURE PARTS (8) ages 5-8.....\$ 7.50
ADDITION & SUBS 1 (8) ages 5-7.....\$ 7.50

TI
DIVISION 1 (8)\$ 5.00
MULTIPLICATION 1 (8).....\$ 5.00
READING FOUNDUP (9).....\$ 5.00
READING RALLY (8).....\$ 5.00

TERMS: MONEY ORDER OR CERTIFIED CHECK (US FUNDS).
FOREIGN ORDERS: Double S/H charges. Excess will be refunded.
We ship via UPS on orders over 7oz ELSE USPS. Because of the ROCK BOTTOM prices, orders without proper shipping and handling payment will be returned.
All sales are final on TI products... Sold with TI factory warranty only.. return defective items to TI (not to HAC) for warranty claim. These are inventory closeouts.. NO backorders will be taken.

CASSETTE COVER MAKER
 Curtis Alan Provance
 New Hampshire 99er's User Group

Your recent surveys asked for more BASIC and X BASIC material, so here it is! The following program makes a cover for your cassettes. It can print 14 items on each of two sides. You may also enter tape counter data and time information. I tried to write this in such a way that you can modify it to suit your needs. If you want to enter lower case text, insert the following line:

```
545 CALL KEY(5,K,S)
```

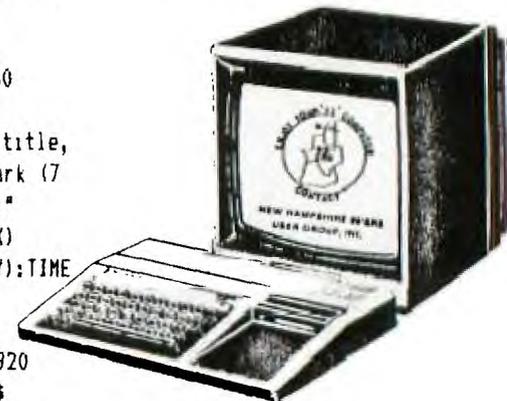
Have fun and experiment! There are many areas that can be improved; I was mainly interested in presenting an easily understood routine. Don't be afraid of using long variable names. If you run out of room, you can go back and shorten them. However, if you go back to a program months after you wrote it, the chances of remembering what's going on are greater if you used good variable names.

```
100 DIM TOTAL(1),NAME$(1,14)
, COUNT$(1,14),TIME$(1,14)
110 DEF CENTER$(X$)="&SEG$(
(BLANK$,1,32-LEN(X$)/2)&X$&S
EG$(BLANK$,33+LEN(X$)/2,33)&
";"
120 EDGE$="!-----
-----!"
130 BLANK$="
"
140 BORDER$="!&BLANK$&!"
150 CONDENSED_ON$=CHR$(15)
160 CONDENSED_OFF$=CHR$(18)
170 ENLARGED_ON$=CHR$(14)
180 ENLARGED_OFF$=CHR$(20)
190 FORM_FEED$=CHR$(12)
200 PRINTER$="PI0"
210 MYNAME$="Curtis Alan Pro
vance"
220 ADDRESS$="17 Constance S
treet "
230 CITY_STATE$="Merrimack,
NH 03054"
240 PHONE$="(603) 424-7624"
250 CALL CLEAR
260 DISPLAY "The program gen
erates covers for cassette ca
ses. You may enter names 48
characters"
270 DISPLAY "long, tape coun
ter data, and time informatio
n (both 7 characters long
). You are"
280 DISPLAY "limited to ente
```

```
ring 14 names per side. If y
ou wish to enter a blank l
ine or comma,"
290 DISPLAY "include quotes
- " ". Don't worry if you
make a mistake, you will be a
ble to edit all"
300 DISPLAY "your entries be
fore they are printed.":::"
(PRESS ANY KEY TO CONTINUE)"
310 CALL KEY(0,K,S)
320 IF S=0 THEN 310
330 CALL CLEAR
340 TITLE$=""
350 FIRST_TIME=1
360 NO_COUNTER=1
370 NO_TIME=1
380 FOR X=0 TO 1
390 FOR Y=1 TO 14
400 NAME$(X,Y)=" "
410 COUNT$(X,Y)=" "
420 TIME$(X,Y)=" "
430 NEXT Y
440 NEXT X
450 DISPLAY "Do you want to
enter tape counter informa
tion?":
460 CALL KEY(3,K,S)
470 ON 1-(K=89)-2*(K=78)GOTO
460,480,490
480 NO_COUNTER=0
490 DISPLAY "Do you want to
enter time information?":
500 CALL KEY(3,K,S)
510 ON 1-(K=89)-2*(K=78)GOTO
500,520,530
```

```
520 NO_TIME=0
530 DISPLAY "Please enter/a
ccept title: <----- 28 le
tters ----->":
540 DISPLAY TITLE$:
550 INPUT "":TEMP$
560 IF TEMP$="" THEN 580
570 TITLE$=TEMP$
580 TITLE$=SEG$(TITLE$&SEG$(
BLANK$,1,31-LEN(TITLE$)),1,3
2)
590 SIDE=2
600 CALL CLEAR
610 X=2-SIDE
620 DISPLAY "Please enter/ac
cept names of items (only the
first 48 characters will
be printed).": "SIDE";1+X:
630 FOR Y=1 TO 14
640 DISPLAY NAME$(X,Y):STR$(
Y);" ";
650 INPUT "":TEMP$
660 IF TEMP$="" THEN 680
670 NAME$(X,Y)=TEMP$
680 IF NAME$(X,Y)=" " THEN 71
0
690 NAME$(X,Y)=SEG$(NAME$(X,
Y)&BLANK$,1,48)
700 NEXT Y
710 TOTAL(X)=Y-1
720 IF NAME$(X,1)=" " THEN 93
0
730 IF NO_COUNTER THEN 830
740 CALL CLEAR
750 DISPLAY "For each title,
input/accept a tape count (7
characters maximum).":
760 FOR Y=1 TO TOTAL(X)
770 DISPLAY :NAME$(X,Y):COUN
T$(X,Y):
780 INPUT "":TEMP$
790 IF TEMP$="" THEN 820
800 TEMP$=TEMP$&BLANK$
810 COUNT$(X,Y)=SEG$(TEMP$,1
,7)
820 NEXT Y
830 IF NO_TIME THEN 930
840 CALL CLEAR
850 DISPLAY "For each title,
input/accept a time mark (7
characters maximum).":
860 FOR Y=1 TO TOTAL(X)
870 DISPLAY :NAME$(X,Y):TIME
$(X,Y):
880 INPUT "":TEMP$
890 IF TEMP$="" THEN 920
900 TEMP$=BLANK$&TEMP$
910 TIME$(X,Y)=SEG$(TEMP$,LE
N(TEMP$)-6,7)
920 NEXT Y
```

```
930 SIDE=2-SIDE
940 IF SIDE=1 THEN 600
950 DISPLAY "Would you like
to edit your information at
this time?":
960 SIDE=2
970 CALL KEY(3,K,S)
980 ON 1-(K=89)-2*(K=78)GOTO
970,990,1010
990 FIRST_TIME=0
1000 GOTO 530
1010 OPEN #1:PRINTER$
1020 PRINT #1:CONDENSED_ON$;
EDGE$
1030 FOR X=1 TO 0 STEP -1
1040 TOTAL(X)=-TOTAL(X)&(NAM
E$(X,1)<>"")
1050 FOR Y=1 TO TOTAL(X)
1060 PRINT #1:" ";NAME$(X,Y
);COUNT$(X,Y);TIME$(X,Y);"
"
1070 NEXT Y
1080 FOR Y=Y TO 14
1090 PRINT #1:BORDER$
1100 NEXT Y
1110 PRINT #1:EDGE$
1120 NEXT X
1130 PRINT #1:" ";ENLARGED_
ON$;TITLE$;ENLARGED_OFF$;BOR
DER$;EDGE$
1140 PRINT #1:CENTER$(MYNAME
$):CENTER$(ADDRESS$):CENTER$(
CITY_STATE$):CENTER$(PHONE$
):BORDER$;EDGE$;FORM_FEED$
1150 PRINT #1:CONDENSED_OFF$
1160 CLOSE #1
1170 DISPLAY "Want to make a
nother cover?":
1180 CALL KEY(3,K,S)
1190 ON 1-(K=89)-2*(K=78)GOT
O 1180,330,1200
1200 CALL CLEAR
1210 STOP
```



routines which beat everyone else - and then sent me two more which beat his first ones! His PEEK version -

```

100 DIM A(255),C(255):: FOR
K=255 TO 1 STEP -1 :: RANDOM
IZE :: CALL PEEK(-31800,B)::
J=INT(B*K/256+1):: C(K)=MAX
(J,A(J)):: A(J)=MAX(K,A(K)):
: NEXT K

```

And see if you can unravel the logic of this truly elegant bit of code!

```

100 DIM A(255):: RANDOMIZE :
: FOR K=255 TO 1 STEP -1 ::
J=INT(RND*K+1):: T=MAX(J,A(J
)): A(J)=MAX(K,A(K)): A(K)
=T :: NEXT K

```

So, on to new business -

ANNOUNCING

The TI-99/4A TRAVELER
a magazine-on-disk!

700 sectors of articles
and programs in each issue
(SS/SD or DS/DD)!

with contributions by
Mack McCormick, Ron
Albright, and many others!

Special pre-publication
prices - \$30 for 6 issues;
\$7 for sample issue (first
issue will be Sept 85)

Send your check now to
Barry A. Traver, Editor
835 Green Valley Drive,
Philadelphia PA 19128
phone (215) 483-1379

To give you an idea of
Barry Traver's knowledge of
our computer, try this one.
I've figured out the why,
but I'll have to ask Barry
to explain the why of the
why!

```

100 ! LINPUT PUZZLE/BUG by
    B.A. Traver
110 ! QUESTIONS? Send SASE
    to Barry Traver
120 ! 552 Seville St.
    Phila. PA 19128
130 CALL CLEAR :: PRINT "LIN
    PUT PUZZLE/BUG:"BY BARRY TR
    AVER"
140 PRINT "Can you figure ou
    t why your computer will not
    obey?"
150 PRINT "Why won't it stop

```

```

when you tell it to?": :
160 LINPUT "Want me to stop?
    (YES/NO)":M$
170 IF M$="YES" THEN STOP EL
    SE 160
180 END

```

It seems that many of
you still haven't heard of
Super 99 Monthly, published
monthly (and on time!) by
Bytemaster Computer
Services, 171 Mustang
Street, Sulphur, LA 70663,
for \$12 per year. The May
issue contained a Word
Processor Dump, to dump a
graphics/text screen into a
D/V80 file which can be
printed out of the TI-Writer
Formatter - that program
alone is worth the annual
subscription price!

I've said it before,
there is more than one way
to skin that poor cat. This
is my routine to alternate
between the #1 and #2
joysticks.

```

Z=Z+1+(Z=2)*2 :: CALL JOYST
(Z,X,Y)
Compact, isn't it? Now, the  
Reading-Berks 99ers publish  
a newsletter called "A Byte  
of Info", which is hardly  
more than a byte long, but  
the August byte was a  
mouthful! Check this -

```

```

100 Z=2
110 Z=1/Z*2 :: CALL JOYST(Z,
X,Y)
And this! Elegant!
Z=Z*0 :: CALL JOYST(Z+2,X,Y)

```

Here is another of
those programs that write a
program. This one will read
a screen of graphics and/or
text and convert it into a
RUNable program of DISPLAY
AT statements which will
recreate the screen.

First, we need a file
of the hex codes of all the
normal characters, to check
against to see if any have
been redefined. Rather than
key in all 95 of the
16-digit codes, let's write

a program to write a program
of them -

```

110 OPEN #1:"DSK1.HEXCODES",
VARIABLE 163 :: LN=30000 ::
FOR D=32 TO 124 STEP 8 :: FO
R CH=D TO D+7 :: CALL CHARPA
T(CH,CH$)
120 D$=D$&CHR$(179)&CHR$(200
)&CHR$(16)&CH$ :: NEXT CH
130 PRINT #1:CHR$(INT(LN/256
))&CHR$(LN-256*INT(LN/256))&
CHR$(147)&SE6$(D$,2,LEN(D$))
&CHR$(0):: LN=LN+1 :: D$=""
:: NEXT D
140 PRINT #1:CHR$(255)&CHR$(
255):: CLOSE #1 :: END

```

RUN that to create a
MERGE format program of DATA
statements. Now, key in the
GRAFWRITER program -

```

31000 SUB GRAFWRITER
31001 OPEN #1:"DSK1.P6",OUTP
UT,DISPLAY,VARIABLE 163
31002 RESTORE 30000 :: L=300
00 :: GOSUB 31018
31003 FOR CH=32 TO 127 :: CA
LL CHARPAT(CH,CH$):: READ A$
:: IF CH$=A$ THEN 31004 ELS
E GOSUB 31019 :: GOSUB 31018
31004 NEXT CH
31005 FOR CH=128 TO 143 :: C
ALL CHARPAT(CH,CH$):: IF CH$
=RPT$(" ",16)THEN 31006 ELSE
GOSUB 31019 :: GOSUB 31018
31006 NEXT CH
31007 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(5)&"CLEAR"&CH
R$(0):: GOSUB 31018
31008 FOR R=1 TO 24
31009 M$=L$&CHR$(162)&CHR$(2
40)&CHR$(183)&CHR$(200)&CHR$(
LEN(STR$(R)))&STR$(R)&CHR$(
179)
31010 FOR C=3 TO 30 :: CALL
GCHAR(R,C,6):: CALL HCHAR(R,
C,42):: IF F=0 AND G=32 THEN
31013
31011 F=1 :: IF FF=1 THEN 31
012 ELSE CC=C-2 :: FF=1
31012 A$=A$&CHR$(6)
31013 NEXT C :: IF CC=0 THEN
CC=1 :: A$=""
31014 PRINT #1:M$&CHR$(200)&
CHR$(LEN(STR$(CC)))&STR$(CC)
&CHR$(182)&CHR$(181)&CHR$(19
9)&CHR$(LEN(A$))&A$&CHR$(0)
31015 L=L+10 :: F,FF,CC=0 ::
M$,A$="" :: GOSUB 31018 ::
NEXT R
31016 PRINT #1:L$&CHR$(134)&

```

```

CHR$(201)&L$&CHR$(0):: GOSUB
31018
31017 PRINT #1:CHR$(255)&CHR
$(255):: CLOSE #1 :: SUBEXIT
31018 L1=INT(L/256):: L2=L-2
56*L1 :: L$=CHR$(L1)&CHR$(L2
):: L=L+10 :: RETURN
31019 PRINT #1:L$&CHR$(157)&
CHR$(200)&CHR$(4)&"CHAR"&CHR
$(183)&CHR$(200)&CHR$(LEN(ST
R$(CH)))&STR$(CH)&CHR$(179)&
CHR$(199)&CHR$(16)&CH$&CHR$(
182)&CHR$(0):: RETURN
31020 SUBEND

```

Next, Enter MERGE DSK1.
HEXCODES to merge in those
DATA statements. Then save
the program by SAVE
DSK1.GRAFWRITER,MERGE

Now, load any program
which has a screen you would
like to copy. Run the
program to the point where
the screen display is ready,
then break it with FCTN 4.
Put in a temporary line
going to itself, such as
1001 GOTO 1001, and run the
program again to be sure you
found the right place. Then
replace that temporary line
with CALL GRAFWRITER :: STOP

Put in the disk
containing the Grafwriter
program and enter MERGE
DSK1.GRAFWRITER. Then RUN
the program. When it stops,
type NEW, then MERGE DSK1.P6
and then RUN!

Now for a Tigercub chall-
enge that I can't answer!
Can one of you assembly
programmers tell me how to
PEEK out of Extended Basic
for screen color and charac-
ter set colors, so I can
reproduce them in that
program?

And, thanks to Jerry Glaze
in the Southern Nevada UG
newsletter, by way of the
Tidewater newsletter - you
don't need SIZE with DISPLAY
AT - just a semicolon!

```

100 DISPLAY AT(12,1):RPT$("≠
",20):: DISPLAY AT(12,1):"SE
E?";

```

MEMORY FULL! - Jim Peterson

CHANGING THE DEFAULT LIST
DEVICE NAME IN SUPER-BUGGER



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When you use the SUPER-BUGGER one of the first entries you have to make is the list device name. If you just press enter there is a default of RS232.BA=4800. Chances are your printer has a different name and if you're lazy like I am you'd rather just press enter then entering 12 to 24 characters.

To change the default you need the Editor/Assembler. Select the E/A EDIT function from the main menu then select LOAD and enter the filename of DSK1.SBUG (assuming drive 1). After SBUG has finished loading, select EDIT and the file will appear. The first 5 characters on the line are the address of the first data element on the line followed by the data for that line broken into fields of 2 HEX characters separated by "B". Use FCTN 9 to enter the command mode and press F(ind) then /5253/ to locate the hex characters RS (In my version it happens to be line 7). Using the blue reference card that came with the E/A package to translate the HEX values to decimal, check the line to make sure that it does in fact contain the printer name. This line contains the value 000D just before the printer name. This value tells the computer to expect 13 (HEX D) characters in the printer name. If the name you enter is a different length, remember to change this value. In the SBUG version I have, line 7 was:

```
A015AB1020B5050B0000B000DB5253B3233B322EB4241B3D34B3830B3020BF2F0F
13 R S 2 3 2 . B A = 4 8 0 0
```

Your line may be different because this also reflects the changes to SBUG that appeared in the Jan,85 newsletter. You must now enter your printer name in HEX. If it is too long to fit on this line, continue on the next line. Remember that each HEX character is 2 characters wide so you can only get 2 HEX characters in each "B" field. DO NOT erase the Bs. My printer's name is RS232.BA=2400.DA=8. This is 18 characters long which translates to 12 HEX so the 000D just before the printer name must be changed to 0012. The printer name in hex is:

```
52533233322E42413D323430302E44413D38
R S 2 3 2 . B A = 2 4 0 0 . D A = 8
```

The DA=8 (44413D38) has to go on the next line because there isn't enough room on line 7. You will notice that there is room reserved on line 8 to accommodate a much longer name because the "B" fields on that line are filled with spaces (HEX 20=ASCII 32=space character).

If you must also use line 8 or whatever the next line is, be sure to also change the 6th character from the right end of that line from 7 to 8 as described in the article in the Jan,85 newsletter. My line 7 already had this character changed from a 7 to an 8 because of the other modification but if your listing hasn't had this change, you must also change the 6th character from the right end of line 7 from 7 to 8.

After you have made the changes and checked them for accuracy, press FCTN 9 twice to get back to the E/A menu and select the SAVE option. Answer "N" to the question about VARIABLE 80 FORMAT then save the program under a different name until you have a chance to check out your modifications. To check the modification, select the LOAD AND RUN option and load the modified program you have just saved. When you get to the question "ENTER DEVICE NAME" just press enter and the computer will tell you the list device is on. Then enter D A000 A100 and check if the printer prints out what looks like good data or just lines of asterisks. If you have made an error the program may not load, or if it does, the printer will only print asterisks. If you get data the change is correct and the default is now your printer name.

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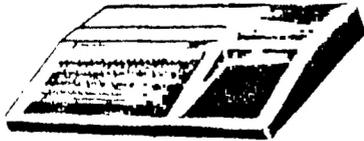


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