

**CLEVELAND AREA 99/4 USER GROUPS
NEWSLETTER**

from

NORTHCOAST

OLON

TI-CHIPS

GOLDEN CRESCENT

FEBRUARY - 1985

Executive Notes - Solon

The January meeting was held at Quinn's Restaurant in Solon. Twenty members attended, and they and their guests enjoyed a fine luncheon. The main order of business was the election of officers for the forthcoming year. Those selected are: Steve Weinkamer, President; Walt Ryder, Vice President; Frank Jenkins, Treasurer; and Barbara Butler, Secretary.

Bill Shannon relinquished his duties as Librarian, but will take over as the new Program Chairman. Dave Hluch and Kim Jones are our new librarians. Bruce Young will handle the Disk Library. Thankfully, Jon Lucas will continue as head of the Educational Committee; and Mark Woodward (with an able assist from Frank Jenkins and the Jablonski's) will edit and assemble our area newsletter.

I'm sure that all of you will join me in extending my warmest thanks to all officers and committee members who served us so well during '84!

As many of you know, the Solon group (through the help of Jon Lucas) has acquired a Peripheral system along with a disk drive. This should aid our demonstrations tremendously with its speed and ability to present more sophisticated software. It also will be made available to copy diskettes, before or after regular meetings.

Bill Shannon is making up a new questionnaire to help ascertain what kind of equipment, programs and expertise is out there. If we get a good response, it will help improve group meetings, and may even help our editor in selection of appropriate programs to publish. i.e. Forth or Basic, etc.? The questionnaire will be in the next newsletter.

Walt Ryder has offered to present a program on File Management and Planning at our next meeting. This is an area that is probably somewhat confusing and mysterious to many of us. It may even open up an entire new area of use for your computer.

Steve Weinkamer, President

See you FEBRUARY 9th, at:

Solon Public Library, Inwood Dr., Solon, Ohio
Education Session - 10:30 A.M. ** General Meeting - 11:30 A.M.

Editorial Comments

Our new Prez. didn't leave me much room, but I didn't have much to say...other than you can purchase a bargain X-Basic Module (\$50) from X-member Joe Herman. Phone - 441-6248

The info., on the next two pages was gleaned from a July '83, Washington, D.C. Area, Users Group letter: --Mark Woodward

PROGRAM NOTES
by Ken Chandler

I'm sure that everyone who has tapes/disks from the club's program library has encountered programs that will not run on their equipment. Sometimes the problem occurs because the program demands that certain peripherals be connected in order to execute properly. There are also cases where the program contains "bugs" and will have to be "debugged" properly before it will run. Basically, I've encountered three situations that may prevent a program from executing properly:

1. Certain peripherals are required that you do not have connected to the system.
2. The program listing contains errors that prevent the computer from executing the program.
3. There are no instructions for running a program that requires certain inputs from the user.

Let's look at each of these situations and see what steps should be taken to correct the problem.

Situation #1 looks fairly straightforward - either you have the peripheral or you don't. Well, it's not that easy. Sometimes the program listing will appear to require a peripheral when in fact the program may execute without it. For example:

A. 100 CALL INIT
110 CALL LOAD(-32 878,0)

These program steps seem to require extended basic plus the 32K memory expansion. This causes the computer to "poke" a zero at memory location, -32 878 which tells the computer that there are no sprites in this program and therefore the computer doesn't need to waste time checking their status. This makes the program execute faster if the memory expansion is connected. If you do not have the memory expansion, simply delete these two lines and the program should run. Also, it's possible the program may run in TI-Basic. Try it and see.

B. 100 CALL SAY("HELLO+HOW+ARE+YOU")

This program line requires the use of the speech editor module and the speech synthesizer peripheral. There is also a similar variation that requires extended basic. It may be that the speech function is not essential for the program to execute. It's just added "frills". Try deleting all the program lines that contain CALL SAY. You may then get errors because there are GO TO statements that reference those deleted lines. Change those to reference the next line after the deleted line. I have used this technique successfully on several programs in our library.

C. 100 OPEN#1:"RS232,BA=9600"
110 PRINT#1

This line requires that a printer be connected to the system. However, the ability to print may be another "frill". Try deleting the "OPEN" statements and change the "PRINT#" statements to PRINT. This will cause the data to be printed on the screen instead of a printer. This technique will not always work and be careful about deleting other file statements in the same program (for example, OPEN#2"CSI" may be valid).

Situation#2 is more difficult to solve, but is an excellent opportunity to sharpen your programming skills while accomplishing something. Some examples of errors, codes and possible solutions are:

A. "MEMORY FULL IN 1490"

This message means that the computer had a memory overflow while trying to execute line 1490. There are many causes for memory overflows; such as:

- 1) The program is too long. Try deleting any REM statements. Also look for ways to shorten program.
- 2) Too much memory required for storing arrays (i.e., DIM statement). Program will have to be shortened or reduce number or size of arrays.
- 3) The program is in a loop and mistakenly storing too much information. This is a common "bug". Inspect places where the program "loops", for example:
100 FOR I = 1 TO 100
110 READ A\$
120 NEXT I
Look for typographical mistakes, omissions, bad variables, etc.

B. "BAD NAME IN 460"

Look at line 460 and the line that was executed immediately before it. There is probably a variable name or something associated with that name (character code, subscript, etc.) that is wrong. Remember, character codes higher than 143 will not run in extended basic. TI-Basic allows codes up to 159.

In order to correct situation #2, you'll have to start at the beginning of the program and work your way through, one step at a time (the way the computer does it) until you find the error.

Situation #3 can sometimes be resolved in two ways:

A. Look at the program listing. Sometimes instructions or clues are buried in REM statements.

B. Try pushing various keys until you determine the proper input. This takes a long time and is sometimes impossible to figure out because of the various combinations required.

Well, I hope this will be of some help when you can't get a program to run.

TI-CHIPS EXECUTIVE NOTES

Our January meeting had a very good attendance, despite the cold, snowy weather. We're glad to see that because it indicates interest by our members in the programs of our meetings. Our Education Committee, as usual, planned a very interesting program.

Many memberships will come due in March, and these people are encouraged to pay their dues.

Steve Latza gave a very interesting presentation on TI FORTH, a new language. FORTH opens up the entire computer to your programming imagination, and is much easier to program in than Assembly. TI FORTH supports all of the VDP modes, and adds two more of its own...Split and Split 2. With Split and Split 2 you can type in commands and watch them work. TI FORTH also supports 32 sprites in all the VDP modes except TEXT. Steve showed us how much faster programs will run in TI FORTH than in Basic; gave us a demo on graphics in TI FORTH; showed us how to use it to see what's stored on disks; and showed how to change sections of programs. There are books available for those interested.

Congratulations to our contest winner Bill Mathews, who won a TI-99 Basic Program Book and cassette for his entry displaying TI CHIPS on the screen. The runners-up were also very good. Bill said this was the first program he made up. Good job! This should give all beginners courage to try more programming.

The Library Committee is getting 15 more disks of programs and could use more help in copying.

Tom Thalner, of EDU-COMP, gave a demonstration of the Master Painter by Amerisoft. It can be used with either joystick or keyboard. It is more complicated than the Sketch Pad, but you can do more with it. Thanks, Tom!

Rich Polinka gave us an informative presentation on Sprites. To program Sprites, you need Extended Basic. Our library has two good programs on Sprites available. One is called Word World, a cute program involving sprites, for children.

Our next meeting will be Saturday, February 16, at 10:00 A.M. - in the North Royalton Public Library. See you all then. Remember to invite any friends with a TI computer to join you.

Jan Fedor, Secretary

ED.NOTE - Bernie Gallagher asked me to tell you that he's planning to discuss, and/or hold elections at your next meeting...and if possible to include the salient portion of his executive note, from last month, in this newsletter. I'll try.

// Club President, Bernie Gallagher, reviewed the current word processing packages available and recommended T.I. Writer as the most flexible. Other software included Console Writer, \$49.95, cassette; Homework Helper (price unavailable); TI Writer Companion, \$79.95, disc; Editor Assembly Module, \$32.00, both cassette and disc; TI Mini-Writer, \$19.95, cassette; Typewriter (price unavailable), cassette; and AutoSpell Check, \$49.95 (used in conjunction with TI Writer). TI Writer is available at \$79.95 in disc. Bernie advised that if word processing is used only occasionally, a printer may not be essential. Documents can be stored and later printed, provided you have a friend with a printer! //

.NOTE - Exec. Notes printed below were transmitted to my DCS by Jim Cline, at 12:15 A.M.,
1/29/85. All I had to do was set my printer for emphasized type, and we were in
business...typographical errors and all.

EXECUTIVE NOTES - NORTHCOAST

Our Annual meeting was held January 19th at which time we elected officers for the coming year. They are as follows:

Ken Gladyszewski	-	President
Dan Davenport	-	Vice-president
Lewis Cancasci	-	Treasurer
John Blackmer	-	Secretary

Many thanks to the officers who have served us so well since our beginnings.

As president, I will be divesting myself of my library duties. Jim Mekeel has agreed to re-activate the cassette library. The present tapes will be sold as is at the February meeting and new tapes, conforming to the reorganized disks, will be available in March. Until cataloging is complete, the present disk library will remain available.

Gary Zaleski is setting up a swap table. Bring your extra, new, or little-used items to the next meeting.

I look forward to the coming year with enthusiasm, especially to the challenge of using everyone's talents and getting them involved in OUR group. Present needs include: an assistant newsletter editor, a software translation chairman and a program chairman. Does anyone in the group have: original software from TI, the SST Compiler, a stand alone disk drive/controller, an MBX system or other unusual hardware and/or software? Please contact me.

Does anyone have an extra phone line used for business that we could use after hours for our bulletin board? You would not have to run the board as it can be done remotely!

At our last meeting we had a demonstration of: a program barcode reader called OSCAR, console keyboard replacement and Database 99 by Quality 99 Software. Thanks to Chuck Mareno of the Golden Crescent User's Group for showing us the database program.

At our next meeting, February 16th at 1:30, we will demonstrate Console Writer by Navarone and Master Disk File by Extended Software.

See you there,
Ken Gladyszewski 357-7274

A Few Words from the past president

I have greatly enjoyed the time that I have spent as your president. This past year has seen us come a long way from our start in November 1983. A lot of work has been put forth by a lot of people to make the group a success for everyone. Unfortunately my job is taking me to southern Ohio and away from the people I have come to love and appreciate. I will miss every single one of you. I am very happy with the group of officers we have for the coming year. I feel that they will carry this group well beyond where we are now. Give them your whole-hearted support.

Jim Cline
Past President

THE GOLDEN CRESCENT COMPUTER CLUB'

PRESIDENTS MESSAGE:

THE LAST MEETING OF THE GOLDEN CRESCENT COMPUTER CLUB WAS HELD ON JANUARY 26, 1985 AT THE AMHERST FIRE STATION AT 2PM. THERE WERE EIGHT MEMBERS PRESENT. SINCE WE DID NOT HAVE A QUORUM, WE COULD NOT ELECT OFFICERS FOR 1985 AS WAS ANNOUNCED IN THE LAST NEWSLETTER.

I SUPPOSE THE HARSH WEATHER KEPT MANY OF YOU FROM ATTENDING THIS MEETING, JUST AS THE FINE WEATHER IN PREVIOUS MONTHS KEPT MANY FROM ATTENDING THOSE MEETINGS.

LAST WEEKEND I ATTENDED THE MONTHLY MEETING OF THE NORTHCOST GROUP IN EUCLID, WHERE IN SPITE OF THE BITTER COLD WEATHER, OVER FORTY MEMBERS WERE IN ATTENDANCE. PERHAPS, INTEREST IN COMPUTERS IS KEENER IN THE BIG CITY, OR THE MEMBERS ARE BETTER ABLE TO MOVE AROUND IN THE COLD, OR ARE BRAVER, OR WANT MORE FROM THEIR INVESTMENT THEN THE MEMBERS OF THE GOLDEN CRESCENT GROUP DO. I DON'T KNOW. I DO KNOW, IT IS VERY HARD, IF NOT IMPOSSIBLE, TO PLAN MEETINGS WITH GUEST SPEAKERS, DEMOS, ETC, FOR TEN OR TWELVE PEOPLE TO SHOW UP FOR. NOW, I FEEL MY TIME IS JUST AS VALUABLE TO ME AS YOURS IS TO YOU. I DON'T WANT TO WASTE MY TIME ANY MORE THEN YOU DO. I FEEL I HAVE BEEN WASTING MY TIME LATELY RUNNING TO SOLON AND TO EUCLID, GATHERING INFORMATION TO SHARE WITH PEOPLE WHO, APPARENTLY ARE'NT INTERESTED AND WHO ARE NOT WILLING TO SHARE THEIRS WITH ME. IN PREVIOUS ISSUES OF THE NEWSLETTER, THE EDITOR HAS ASKED YOU TO COME FORWARD AND HELP THE CLUB BY WRITING ARTICLES FOR THE NEWSLETTER OR SERVING ON COMMITTEES. TO DATE NOT ONE PERSON HAS COME FORWARD TO OFFER HELP. EVEN THOSE, WHO, IN THE PAST HAVE OFFERED HELP HAVE NOT COME THROUGH WITH IT. AS THE MAN SAID "THIS IS A HELL OF A WAY TO RUN A RAILROAD". I REALLY DON'T KNOW WHAT YOU WANT, OR ARE WILLING TO GIVE TO THE CLUB. WE WILL AGAIN SEND OUT A FORM FOR THE MEMBERS TO FILL OUT INDICATING THEIR WANTS AND INTERESTS. IF YOU ARE AT ALL INTERESTED IN THE CLUB, PLEASE FILL OUT THE FORM AND MAIL IT BACK, IF NOT!!!!

NEW MEETING TIME AND PLACE

OUR NEXT MEETING WILL BE HELD ON THURSDAY, FEBRUARY 21, 1985 AT 7:30PM AT RAM ENTERPRISES, 2907 LIBERTY AVE (LAKE RD.), VERMILION, OHIO. RAM IS LOCATED NEXT DOOR TO DeWITT AUTO PARTS, SO LOOK FOR THEIR SIGN.

THIS WILL BE A WORKING MEETING. ALL MEMBERS ATTENDING SHOULD BRING ANY INFORMATION THEY CAN AND ALSO BE PREPARED TO DISCUSS WHAT SERVICES THEY CAN OFFER THE CLUB. THIS IS A CLUB FOR ALL OF US, NOT JUST A FEW TO DO THE WORK AND OTHERS TO REAP THE BENEFITS.

EXPIRED MEMBERSHIPS

THE FOLLOWING MEMBERS MEMBERSHIPS HAVE EXPIRED AND THEIR DUES ARE DUE AND PAYABLE.

GORDON BROWN
JIM BURGETT
TIM BURTON
RICK COOK
RONALD DALEY
LYNDA FAIR
ORA MAE GIBSON
AL GREEN
TOM GROGAN
KEN HABEDORN
DON HAYDEN
RICH JUSTIN
DAVID KARNEY
DUANE KELLOGG
BARY NICHOLS
GREG RICHMOND
ROBERT SHLAPAK
PETE BIVINSKI
JIM STRICK
MICHAEL SUNNEY
JOHN SZEFYK
THOMAS THALNER
DAVID TURNBULL JR.

PLEASE, DUES TO:

HAROLD SKIPWORTH - SEC.

910 WILLARD AVE CLEVELAND, OHIO 44102

PRODUCT REVIEW

by CHUCK MARENO

QUALITY 99 SOFTWARE RECENTLY RELEASED A NEW DATA BASE MANAGEMENT PROGRAM FOR THE TI. THE PROGRAM IS ON DISK AND COMES WITH A SECOND "DATA DISK" WHICH HAS A DEMO FILE AND CAN BE USED TO SET UP YOUR DATA. THE PROGRAM IS IN EXTENDED BASIC, BUT HAS SOME ASSEMBLY ROUTINES. THE PROGRAM WORKS MUCH LIKE THE NAVARONE CARTRIDGE BASED SYSTEM IN THAT YOU START OUT WITH A BLANK SCREEN WHICH YOU FORMAT FOR YOUR OWN DATA FIELDS. YOU HAVE AVAILABLE 18 LINES OF 28 CHARACTERS EACH. YOU CAN PUT MORE THAN ONE SHORT FIELD ON A LINE, BUT A FIELD CANNOT CONTINUE PAST THE END OF A LINE. EACH FIELD MUST HAVE A LEAST ONE ALPHA-NUMERIC CHARACTER TO IDENTIFY IT. THE MAXIMUM NUMBER OF FIELDS IS 28 AND THE MAXIMUM NUMBER OF CHARACTERS PER RECORD IS 245. THE NUMBER OF RECORDS AVAILABLE DEPENDS ON YOUR DISK SYSTEM. THERE ARE 350 FOR SINGLE SIDED DISKS, 700 FOR DOUBLE SIDED DISKS. THE PROGRAM ASKS IF THE DISKS ARE DOUBLE DENSITY. HOWEVER, IT IS NOT STATED WHETHER THIS DOUBLES THE GIVEN RECORD CAPACITY. THE SORT ROUTINE IS SOMEWHAT DIFFERENT THEN OTHER DATA BASES USE. YOU CAN SORT ON UP TO TWELVE CHARACTERS. THESE CAN BE CONSECUTIVE CHARACTERS IN ONE FIELD, OR SEVERAL SETS OF CONSECUTIVE SHORT FIELDS. THIS PROVIDES SOME FLEXIBILITY, BUT IS MORE RESTRICTIVE THEN THE NAVARONE SYSTEM. THE PRINT ROUTINE FORMAT IS USER DESIGNED ALSO AND WORKS WELL. IT IS SOMEWHAT SLOW THOUGH AS IT TAKES SOME TIME TO FORMAT EACH LINE TO THE USERS SPECIFICATIONS. THE PROGRAM AS A WHOLE IS A GOOD VALUE FOR THE PRICE (\$39.95 SUGGESTED RETAIL). IT OUTPERFORMS TI'S PERSONAL RECORD KEEPING IN MANY WAYS, EXCEPT FOR PRK'S MATH CAPABILITIES.

3.

'RUBBER BAND' METHOD (WHICH IS EXACTLY THE SAME METHOD USED IN PROFESSIONAL GRAPHICS SYSTEMS). 13) THE ABILITY TO DRAW CIRCLES AND ELLIPSES VERY EASILY AND IN EXACTLY THE SIZE, SHAPE AND POSITION YOU REQUIRE. 14) THE HELP INFORMATION IS ALWAYS DISPLAYED ON THE SCREEN TELLING YOU WHAT TO DO NEXT, BUT IN SUCH A WAY THAT NONE OF THE DRAWING AREA IS WASTED. YOU CAN, OF COURSE, TURN OFF THE HELP FEATURE IN ORDER TO VIEW YOUR MASTERPIECE ON AN UNCLUTTERED SCREEN. 15) THE ABILITY TO USE THE KEYBOARD TO ADD TITLES, TEXT OR LABELS TO YOUR DRAWINGS. 16) A CLIPBOARD FACILITY LETS YOU STORE PARTS OF YOUR PICTURE 'OUT OF THE WAY' WHILE YOU EXPERIMENT WITH CHANGES. HOWEVER, IF YOU DO NOT LIKE YOUR CHANGES, THEN YOU CAN RESTORE YOUR PICTURE FROM THE CLIPBOARD. SINCE CLIPBOARDS, LIKE PICTURES CAN BE SAVED ON DISK, YOU CAN USE THEM TO BUILD UP COLLECTIONS OF OFTEN USED SHAPES, SPECIAL ALPHABETS AND THE LIKE SO THEY CAN BE USED WHERE AND WHENEVER YOU NEED THEM. YOU CAN EVEN USE THE CLIPBOARD TO TRY YOUR HAND AT COMPUTER ANIMATION. GRAPHX DOES HAVE A MINIMUM SYSTEM REQUIREMENTS OF A TI-99/4A HOME COMPUTER, A 32K MEMORY EXPANSION UNIT, A DISK CONTROLLER UNIT, AT LEAST ONE DISK DRIVE, A JOYSTICK AND EITHER THE EDITOR/ASSEMBLER OR EXTENDED BASIC COMMAND MODULE. IF YOU WANT TO PRINT YOUR PICTURES THEN YOU WOULD NEED AN RS232 INTERFACE AND AN EPSON MX-80 COMPATIBLE PRINTER. ACCORDING TO THE CREATOR OF GRAPHX, HE MAY RELEASE A VERSION FOR OTHER PRINTERS IF THE DEMAND SO WARRANTS. THE PRICE OF THE PROGRAM SHOULD BE AROUND \$50.00 AND THE PROGRAM SHOULD BE AVAILABLE AROUND THE END OF OCTOBER 1984. IF YOU REQUIRE FURTHER INFORMATION, THEN PLEASE CONTACT: RON DAVIS/817-14 BORTFIELD DRIVE/CHISHICK/NEW SOUTH WALES/AUSTRALIA/2046. THE THREE PICTURES SHOWN BELOW WERE

4.

NOT ONLY CREATED WITH GRAPHX BUT WERE ALSO SLIGHTLY REDUCED. NOTE: THE INFORMATION ON, AS WELL AS, THE PICTURES CREATED WITH GRAPHX COMES TO US FROM THE NEWSLETTER PUBLISHED BY THE ADELAIDE USERS GROUP (IN AUSTRALIA) AND IS A REPRINT FROM THE NEWSLETTER PUBLISHED BY THE SYDNEY USER GROUP (ALSO IN AUSTRALIA).

2.

SOFTWARE REVIEW

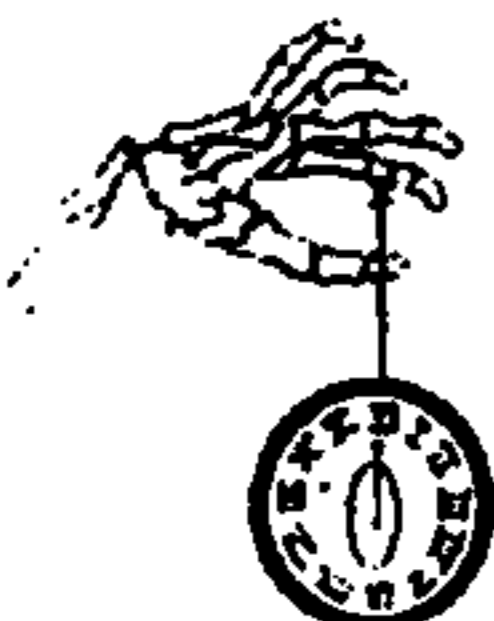
by CHUCK MARENO

This is a copy of a review by Ed York of the Cin-Day users group taken from the October 1984 newsletter of the group.

GRAPHX IS A NEW PROGRAM WHICH WILL PROVIDE TI-99/4A HOME COMPUTER OWNERS WITH GRAPHIC FACILITIES MUCH LIKE THOSE OF THE "MACPAINT" ON THE APPLE MACINTOSH. THIS PROGRAM IS THE PRODUCT OF ALMOST TWO YEARS DEVELOPMENT AND TESTING BY A PROFESSIONAL PROGRAMMER. ABSOLUTELY NO EFFORT HAS BEEN SPARED, IN ORDER TO PACK AS MUCH POWER AS POSSIBLE INTO THE LIMITED MEMORY OF THE TI-99/4A. IN ORDER TO PROVIDE FOR MAXIMUM SPEED, THE PROGRAM HAS BEEN WRITTEN IN 9900 ASSEMBLY LANGUAGE, AND FOR EASE OF USE, THE PROGRAM IS ENTIRELY MENU AND FUNCTION KEY DRIVEN. THE PROGRAM HAS NO COMPLICATED CONTROL CODES TO REMEMBER. SOME OF THE FACILITIES THAT GRAPHX OFFERS ARE: 1) THE ABILITY TO DO FREE-HAND DRAWING AND ERASING. 2) A POWERFUL 'ZOOM' FEATURE FOR CLOSE UP WORK. 3) A COMPLETE CONTROL OVER COLORS FROM AN EASY TO USE PALETTE. 4) THE ABILITY TO RE-PAINT PARTS OF ANY PICTURE TO NEW COLORS. 5) A QUICK AND EASY METHOD FOR FILLING IN SHAPES. 6) THE PICTURES YOU CREATE MAY BE SAVED ON AN EPSON MX-80 COMPATIBLE PRINTER IN ANY OF FOUR DIFFERENT FORMATS. 7) ANY PART OF ANY PICTURE MAY BE PICKED UP AND MOVED TO A NEW LOCATION. 8) ANY PORTION OF ANY PICTURE MAY BE PICKED UP AND COPIED MORE THAN ONCE. 9) ANY PORTION OF ONE PICTURE MAY BE COPIED INTO ANOTHER DIFFERENT PICTURE. 10) ANY PICTURE MAY BE SAVED TO DISK AT ANY TIME AND THEN DISPLAYED OR WORKED ON LATER. 11) THE PICTURES YOU CREATE MAY BE USED IN YOUR OWN ASSEMBLY LANGUAGE PROGRAMS SO AS TO EASILY PROVIDE COLORFUL BACKGROUNDS. 12) THE ABILITY TO DRAW STRIGHT LINES BY USING THE



DRAWN BY GRAPHX



DRAWN BY GRAPHX



7.

THIS REVIEW WAS PUBLISHED IN THE OCTOBER 1984 ISSUE OF AIRPORT AREA COMPUTER CLUB.

by Chuck Mareno

At the last meeting of the NORTHCOAST 99ers, I was lucky to pick up a copy of the SUPER 99 MONTHLY and would like to review it for the members of The Golden Crescent Group. This is Issue No. 1 which is dated SEPTEMBER 1984. A summary of Articles is as follows:

A listing for a disk loader program, it allows Extended Basic disk programs to be run from a numbered list on the screen. Has extra options, and creates its own catalog. Also Auto-boots.

"An Introduction to TI-FORTH" What you need, how to avoid first-use problems, etc.

"Bit-mapped Drawing in FORTH" How to get started on an interactive computer-assisted design project, pixel-by-pixel.

"Horse Evaluator Using Multiplan" Step-by-step Multiplan model yields a percentage in place of the speed index of a thoroughbred race horse. Not a wagering system.

"Using ERASE ALL in Extended BASIC" when to use ERASE ALL.

"DISPLAY AT in Console BASIC" Uses 1 line plus FOR-NEXT loop, READ DATA to display a sentence at any screen location.

"Using the TI-WRITER Transliterate Command" Shows how to get full use of your printer.

There's much more plus 2 pages of news. I feel this magazine is of definite benefit to any owner of a TI. I sent in my subscription, which costs \$12.00 per year. A good buy.

VOLUME 1 ISSUE 1

SEPTEMBER 1984

SUPER 99 MONTHLY

Super 99 Disk Loader

STANDARD: 1A 2A 4B 5A 6A 7A 9A

Super 99 Disk Loader (listing on

next page) will automatically run upon entering Extended BASIC, print to the screen a list of programs available on a disk, and either run a program on the disk or enter immediate mode.

The program allows you to select from up to 97 programs on any one of the 3 possible disk drives. Also, the program allows some other options such as disabling the SUIT key (reference the TI Forth Manual) and pre-selecting screen and character colors (assuming the program to be run does not change the pre-selections). This color control is especially useful for application programs used by more than one person if each user has a preference for a different color combination.

Super 99 Disk Loader uses 9 disk sectors as printed. There are no associated files to increase the number of sectors used. The program can easily be tailored to your own needs as resequencing or adding lines or statements are supported. Deleting lines or statements judiciously is also possible. Scrolling has been avoided to reduce eye-strain.

Only items listed as programs can be selected (the program also catalogs files). Selecting item 99 (END) will place the console in immediate mode. Don't forget to type "END" before starting to key a new program.

You must save the program using the name "LOAD", such as "BKI.LOAD", to have it run upon entering Extended BASIC.

```
>1 ! SUPER 99 DISK LOADER
>2 ! COPYRIGHT 1984 SUPER 99
MONTHLY
>100 ! S      SET-UP      S
>110 DIM A$(97),H(98),J(97),K
(97)
>120 CALL INIT
>130 FOR I=1 TO 5 :: READ TYP
E$(I):: NEXT I
>140 DATA "DIS/FIX","DIS/VAR"
,"INT/FIX","INT/VAR","PROGRA
M"
>150 ! S      BODY      S
>160 S00L5 2000
>170 ACCEPT AT(3,24)DEEP VALI
DATE("01")SIZE(-1):Y
>180 ACCEPT AT(5,24)DEEP VALI
DATE("123")SIZE(-1):X0
>190 ACCEPT AT(7,24)DEEP VALI
DATE(DIGIT)SIZE(-2):XC
>200 ACCEPT AT(9,24)DEEP VALI
DATE(DIGIT)SIZE(-2):FB
>210 ACCEPT AT(11,24)DEEP VAL
IDATE(DIGIT)SIZE(-2):DB
>220 Y=Y016 :: CALL LOAD(-316
04,Y):: CALL SCREEN(SC):: FO
R I=0 TO 14 :: CALL COLOR(I,
FB,DB):: NEXT I
>230 OPEN #1:"BKI"X04".",IMP
UT,RELATIVE,INTERNAL
>240 INPUT #1:A10,U,U,V
>250 S00L5 3000
>260 B=0+1
>270 INPUT #1:A0(B),H(B),J(B)
,K(B)
>280 IF LEN(A0(B))=0 OR B=97
THEN 290 ELSE 240
>290 B=B+1 :: R=R+1
>300 IF ABS(H(B))=B THEN B0="
" ELSE B0="ASTRO(K(B))
">310 T0=TYPE$(ABS(H(B)))&B000
(B0,LEN(B0)-2,3)
>320 S00L5 4000
>330 IF R=17 OR B=0 OR H(B+1)
=0 THEN 340 ELSE 300
>340 R=0 :: S00L5 5000
>350 ACCEPT AT(24,12)DEEP VAL
IDATE(DIGIT," ")SIZE(-2):PR0
>360 IF PR0=98 THEN 370 ELSE
IF PR0=99 THEN 999 ELSE PR00
=0+(PR0)
>370 IF PR00<>" " THEN 380 EL
SE IF B<0 AND H(B+1)<>0 THEN
290 ELSE 380
>380 ! S      END      S
>390 CLOSE #1
>400 CALL PEEK(-31984,A,B)::
S00L5 1000 :: RUN "BKI.1234
```

```
847890"
>999 END
>1000 ! S RE-WRITE RUN LINE 0
>1010 Z=A0254+B-68534 :: CALL
PEEK(Z,A,B):: Z=A0254+B-685
34
>1020 CALL LOAD(Z+29,LEN(PRO0
0)+5):: CALL LOAD(Z+33,ABS(X
0))
>1030 FOR I=1 TO LEN(PRO00)::
P=ASC(CHAR(PRO00,I,1)):: CA
LL LOAD(Z+34+I,P):: NEXT I
>1040 IF LEN(PRO00)<10 THEN 1
080 ELSE 1040
>1080 FOR I=LEN(PRO00)+1 TO 1
0 :: CALL LOAD(Z+34+I,130)::
NEXT I
>1040 RETURN
>2000 ! S PARAMETERS SCREEN S
>2010 DISPLAY AT(2,1)ERASE AL
L:"SUIT KEY":0 ENABLE 1 DIS
ABLE 0"
>2020 DISPLAY AT(5,1):"SELECT
MASTER DISK (1-3) 1":1"SCR
EEN COLOR (1-16) 0"
>2030 DISPLAY AT(9,1):"FORBR
DND COLOR (1-16) 2":1"BAC
KROUND COLOR (1-16) 1"
>2040 RETURN
>3000 ! S CATALOGS HEADER S
>3010 DISPLAY AT(1,1)ERASE AL
L:"BKI";X0;" - DISK000=";A1
0:"AVAILABLE=";V;" USED=";
U-V
>3020 DISPLAY AT(3,4):"FILENA
ME SIZE TYPE":
- - - - -
>3030 RETURN
>4000 ! S DISK CATALOG S
>4010 DISPLAY AT(R+4,1):UBING
"00":S :: DISPLAY AT(R+4,4)
:A0(B):: DISPLAY AT(R+4,14):
J(B):: DISPLAY AT(R+4,19):T0
>4020 RETURN
>5000 ! S SPECIAL SELECTIONS0
>5010 DISPLAY AT(22,1):"98 ME
XT SCREEN":99 END:"SELECTI
ON: 99"
>5020 RETURN
```


EDITORS NOTE: Again Uncle Sam fouled us up, and I wound up with a blank sheet. This issue is headed for the printers within a few minutes, so best give you a chuckle with the following cartoon taken from a Atlanta Users Group Newsletter.



"BIG DEAL-- YOU STILL HAVE TO BUY ALL THOSE PERIPHERALS!"

```

5 REM CONVERT FAHRENHEIT
6 REM TO CENTIGRADE
7 REM BASIC
10 CALL CLEAR
12 PRINT "CONVERT FAHRENHEIT": "TO CENTIGR
ADE": "ENTER 9999 TO END.":
20 INPUT "FAHRENHEIT? ":F
25 IF F=9999 THEN GO
30 LET C=5/9*(F-32)
40 PRINT "THE ANSWER IS:"
50 PRINT C:" CENTIGRADE "
60 PRINT
70 GO TO 20
80 END

```

```

5 REM CONVERT CENTIGRADE
6 REM TO FAHRENHEIT
7 REM BASIC
10 CALL CLEAR
12 PRINT "CONVERT CENTIGRADE": "TO FAHRENH
EIT": "ENTER 9999 TO END.":
20 INPUT "CENTIGRADE? ":C
25 IF C=9999 THEN GO
30 LET F=(9/5)*C+32
40 PRINT "THE ANSWER IS:"
50 PRINT F:" FAHRENHEIT"
60 PRINT
70 GO TO 20
80 END

```

FILLER BY FRANK

!! TIME DATED MATERIAL !!

03/85

CLEVELAND AREA 99/4A USERS GROUPS
P.O. BOX 391101
SOLON, OHIO 44139



RR Calhoun 1890s
USA Inc
Print Run

```

100 REM #####
110 REM $ MILES PER GALLON $
120 REM ##### BASIC #####
130 CALL CLEAR
135 PRINT "ENTER 0 TO END"
140 PRINT
150 INPUT "KEY IN BEGINNING MILEAGE ";
SMILES
160 IF SMILES=0 THEN 260
170 INPUT "KEY IN ENDING MILEAGE ";
EMILES
180 LET MDRIVEN=EMILES-SMILES
190 INPUT "KEY IN GALLONS USED ":GALS
200 LET MPG=MDRIVEN/GALS
210 CALL CLEAR
220 PRINT "MILES DRIVEN WAS":MDRIVEN
230 PRINT "MILES PER GALLON =":MPG
240 PRINT
250 GOTO 150
260 END

```

```

100 REM #####
110 REM $ MILES PER GALLON $
120 REM ##### X/BASIC #####
130 CALL CLEAR
140 PRINT "ENTER 0 TO END"
150 PRINT
160 INPUT "KEY IN BEGINNING MILEAGE ";
SMILES
170 IF SMILES=0 THEN 270
180 INPUT "KEY IN ENDING MILEAGE ";
EMILES
190 LET MDRIVEN=EMILES-SMILES
200 INPUT "KEY IN GALLONS USED ":GALS
210 LET MPG=MDRIVEN/GALS
220 CALL CLEAR
230 PRINT "MILES DRIVEN WAS":MDRIVEN: ;
240 PRINT USING "MILES PER GALLON = ##.##
#:MPG
250 PRINT
260 GOTO 160
270 RUN "DSK1.LOAD"

```