



NEW HORIZONS



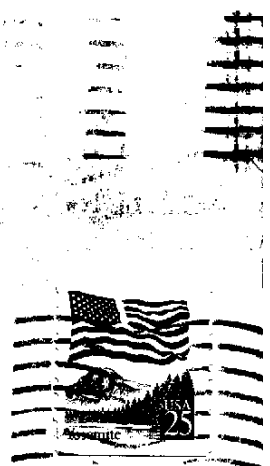
NEWS LETTER

NORTHWEST OHIO COMPUTER CLUB FOR THE TEXAS INSTRUMENTS 99/4A
AND THE HYARC GENOVE 9640 PERSONAL AND HOME COMPUTER

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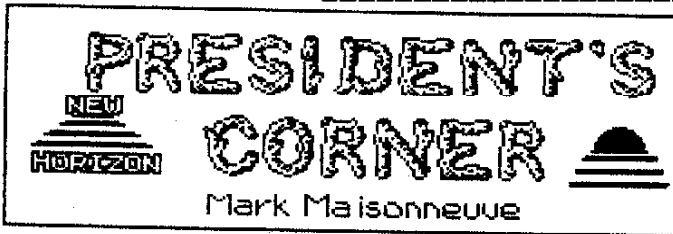
NO MEETING, BUT THOSE INTERESTED IN THE LIMA TRIP PLEASE BE AT UNITY CHURCH SATURDAY MAY 20 ABOUT 8:45 AM SO WE CAN LEAVE TOGETHER Behind Wendy's off Secor Road on Executive Dr.

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Welcome to the May edition of your newsletter. I would like to thank all the members that showed up to our last meeting. I would also like to say that I enjoyed it greatly.

This month as those members that attended the meeting know, that there will not be a meeting in May...The membership that attended, voted to gather at the church and go to Lima (May 20) as a group and anyone needing a ride may ride with one of the other club members.

The June meeting will be the usual "Bring a dish" meeting and will be on the second Saturday on June 10, 1989. This has always been one of the nicer meetings and it also is the last until September. Please be sure to attend!

I will not rambel on to much this month but wait till the June letter...



"Have you noticed that Muffin doesn't scratch the furniture anymore?"

PARKS

by Don Turner

METROPARK FUN

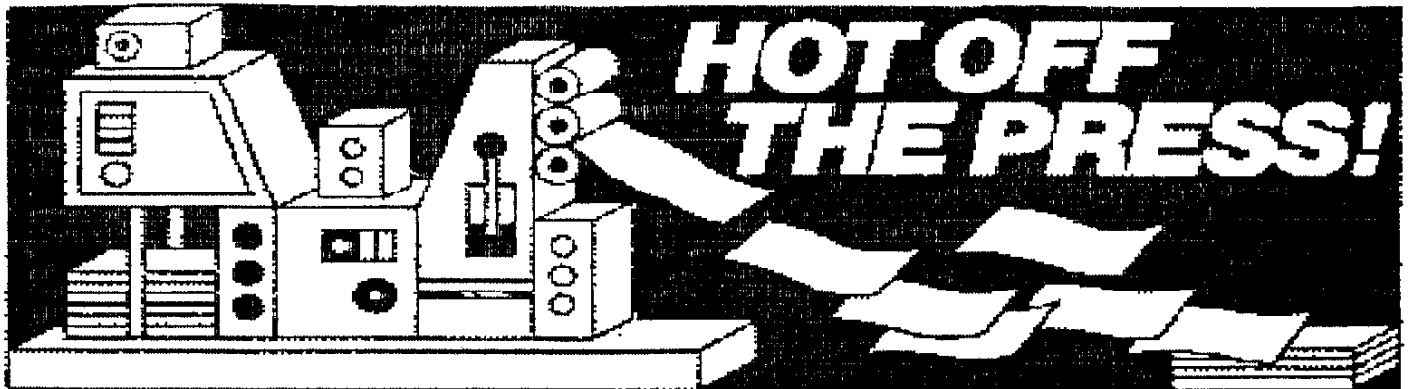
By
Don Turner

The Metropark distric of Toledo was founded in 1928. It is an independent subdivision of the state of Ohio. There are nine metroparks in Lucas County. Each offer different assortment of activities that should please everyone.

The metroparks offer workshops, hikes, festival type of events, music and art programs. Several of the metroparks offer skiing. There are also historical information available ranging from the Miami and Erie canals to the Manor house.

The trails range from 0.3 to 17 miles. the average is 1.4 miles and are well marked. Along the trails you can find tidbits of information about different trees and with a little luck spy on a racoon scurrying about. The parks have a variety of wildlife living in and around the parks for everyone to enjoy.

Most of the parks are located near or inside Toledo making them quite convenient. With the onset of spring get your hiking boots out get new laces in them and round up family, fill the picnic basket and set off for an adventure in any of the metroparks. You are sure to have a great time as well as burn a few calories on the trails.



MINUTES of APR. 15 1989
MEETING

Mark opened the meeting at 12:35 P.M. Attendance 15.

Minutes of last meeting, printed in the newsletter were approved. Earl gave the financial report. The expenses for the past month totaled \$121.28. Leaving a balance of \$887.65. A printed financial report was given to those in attendance. John Dewey made a motion to approve. Paul Sneider seconded. It was approved.

OLD BUSINESS:

1. Earl ordered the Miocropendium for the Lucas Co. Library.

2. Steve Verlock made a motion to take a half page ad in the Toledo Computer News for a one time fee of \$5.00. John Dewey seconded. It was approved.

NEW BUSINESS:

1. Earl will be out of town on May 13th, because of this the club will not have access to the video and equipment. Earl made a motion to move the regular meeting date to May 20th and that all members meet at 9 A.M. in the parking lot for a trip to

Lima, Ohio for the Multi-User Group Conference on the Ohio State campus. Steve Veroc seconded it and it was approved. Earl will have a map and detailed instructions in next month's newsletter.

2. The permanent date for the club monthly meeting, starting in June 1989 will be the second Saturday of each month - instead of the Saturday following the second Friday. It was voted on and approved.

The business meeting was closed at 12:55 P.M.

Respectfully submitted,

Jo Symington, V.P.
(474-4128)

Pot luck for the June meeting. This will be our last meeting before we take our summer break. The club will provide the paper products - You bring your favorite "pot luck" dish and appetites. All Family members are invited.

THE NEW HORIZONS COMPUTER CLUB

Roger Steinauer



EDITOR

Hello, and good day. This month as you may have guessed there will be no meeting. As most of the officers wouldn't have been able to attend it, was decided that there wouldn't be a meeting in May. But, for those interested may meet at Unity Church so we may all go to Lima as a group. If you want to go but don't have a ride contact Mark and let him know.

Last year I went to Lima and had a lot of fun and learned a lot. I met a lot of new friends and seen a lot of new and old software. There was always something going on so you had to keep on your toes or you might miss it. All and all the Lima Group put on a very good conference.

Some of the people you will get to meet are Jim Peterson, Jim Horn, Chris Bobbitt, Barry Traver, Bud Mills, Irwin Hott, and many many more. As you can see this isn't just a simple get together, but something on a grander scale. It is rumored that Chris may use the Lima Conference as his launching pad for his new program PRESS, so this is the kind of stuff that makes your fingers twitch, and eyeballs water, and sweat roll down your back.

I have included two pages

from the Lima May newsletter to help those who are interested in going the please see the next pages.

I will try to find as many new programs as I can, and will share with you any I find. Also, I will try to find any new items or articles to share with you in the newsletter. If you need something in the way of software as long as it isn't copyrighted let Mark or I know and we will try to find it. Well untill June. See ya!

OFF THE LEASH

BY W.B. PARK

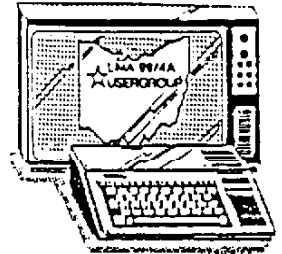


NEWSLETTER ITEMS:

Winners for last Month's drawing. There were 4 door prizes. Chris Dewey won a 50 disk holder; Paul Sneider won the monthly "club disk"; Jo Symington won the "Purple Stationery Kit" and Dennis Majewski won the "10 disk holder". Congratulations! Be sure to be at the June Meeting early to "sign-in" prior to the drawing! The meeting starts at 12:30 P.M.

BITS, BYTES & PIXELS

LIMA 99/4A USERS GROUP



MAY 1989 VOLUME 5 #5

MULTI USER GROUP CONFERENCE UPDATE:

Saturday May 20, 1989

Student Activities Building

Lima Ohio Campus, Ohio State University

This conference deals entirely with the Texas Instruments 99/4A computer and compatibles. As the conference date approaches we expect additions to the list of user groups, dealers, and formal presentations given below. Doors open and setup begins at 7:30am. Scheduled events begin at 9am and conference activities will continue until 5 or 6pm. Food service will probably be available from 11-1 immediately adjacent to the exhibit area. There is NO ADMISSION CHARGE.

DIRECTIONS AND ACCOMODATION:

Exit Interstate 75 at state 309 and go 2.5 miles East on 309. Turn left (North) onto Mumaugh Road. The campus entrance is 0.5 miles on the right. Lima is served by trains from Chicago, Washington, and New York. Conference guests can take trains from the east and arrive at Lima in the wee hours of May 20 (trains from the east arrive at 5:02am and 6:37am), attend the conference, and leave by train the same night (departures eastbound at 11:59pm and 1:29am). The Lima UG will arrange to pick you up and deliver you back to the train station if you inform us in advance. Recommended nearby motels include the Holliday Inn (419-222-0004, single \$55 if you tell them you are attending our conference), and Motel 6 (419-228-0456, single \$21.95 plus \$6 for each additional person in the room).

TABLES IN THE EXHIBIT MALL:

- Lima Ohio User Group; We will offer free copies of anything new in our library since the 1988 conference to a designated representative of ANY user group attending, even representatives of groups that do not schedule exhibit space. User groups we know will be attending will receive a library listing in the mail prior to the conference. Provide your own blank disks or purchase blank disks at the RANCHARGE COMPUTER table. Our listing will also be posted at the conference. This offer is not made to individuals, who can gain access to our library by joining the Lima UG.

The Lima UG will also be releasing to the TI community a music medley of Andrew Lloyd Weber's THE PHANTOM OF THE OPERA programmed by our own Andy Frueh. We will be giving this away, charging for only the cost of the disk. If you like it, you can make a fairware donation to Andy.

Also for sale at the Lima UG table will be Jack Sughrue's PLUS! v2.0, which will have its official release at the Lima Conference, and Milo Tsukroff's MX-DOS v3.0. Milo is author of Chinese Chess and other PD and fairware programs. MX-DOS v3.0 will be the subject of one of the conference room presentations.

- GREAT LAKES SOFTWARE; software sales, including CERTIFICATE 99 v2, JOY PAINT, and other assembly language software

- MICRO SERVICE; Fort Loramie OH; printer sales and repairs to TI hardware

- OTTAWA USER GROUP; Ottawa Canada

- CIN DAY USER GROUP; Cincinnati and Dayton Ohio areas

- GREAT LAKES USER GROUP; Detroit area

- BUD MILLS SERVICES; sales of Horizon Harddisks and P-6ram cards.

- ST. LOUIS 99ERS; St. Louis MO area, sales of SUPER BASIC

- TIGERCUB SOFTWARE (Jim Peterson); Sales of original software, plus many VERY inexpensive disks full of public domain software.

- C.O.N.N.I. the Columbus Ohio user group.

- COMUSERVE (Jim Horn, TI sysop); signing people up for this national information service.

- GENIAL COMPUTERWARE; software sales. Barry Traver, the well known TI columnist for Computer Shopper, will represent Genial at our conference.

- ASGARD SOFTWARE (Chris Bobbitt); software sales. Chris told us recently that PRESS may be ready in time for our conference (or sooner). We sure hope so!!

- CLEVELAND AREA USER GROUPS; Cleveland Ohio area. Among other things they will have for sale TI BASE; as well as PICTURE_IT, PRINT_IT, JIFFY FLYER, FORM SHOP, JIFFY CARD (a new release) and other software by Rodger Merritt; as well as software by Glenn Bernasek.

- OH MI TI USER GROUP, Toledo OH and southeastern Michigan areas.

- L.L. CONNER ENTERPRISES (Larry Conner), hardware and software sales. This well known dealer often advertises in Computer Shopper and is the exclusive dealer for TURBO PASCAL 99. Myarc Hard and Floppy disk controllers will be among the items for sale.

- P&A SOFTWARE (Paul Scheidewantle), software sales including a probable new release relating to computer graphics and art. SPORTS INSTANCES (another new release), DISK LABELER 99 v2, TI ARTIST FONTS 2-5, TI ARTIST BORDERS 2-3, and PICASSO BORDERS will be for sale.

- THE FORT'S USER GROUP, Fort Wayne IN area.

- RANCHARGE COMPUTERS (Ron Markus), Brookpark OH. Original and rare TI modules, Databiotics modules, modulators, keyboards, power supplies, 2 drive cable sets, bulk disks, fairware library (\$2 each disk or 3 for \$5), recent software.

NEXT PAGE

Bits, Bytes & Pixels

CONFERENCE ROOM SCHEDULES Note: These presentations will be videotaped and made available to any user group for the cost of the required TWO blank VHS tapes and postage. Group representatives can leave two blank tapes and \$2 book rate postage at the Lima UG table.

ROOM 160

- 9:00 am. Barry Traver, RECENT SOFTWARE FROM GENIAL COMPUTERNARE

- 10:00AM. Barry Traver (his second presentation), LINKING XB TO ASSEMBLY LANGUAGE VIA "CALL LINK".

- 11:00AM. Chris Bobbitt, THE LATEST RELEASES FROM ASGARD SOFTWARE.

- NOON. User group officers meeting. Suggested topics include: another group hosting the 1990 Multi User Group Conference; a central register of Ohio area user group meetings to be published in all group's newsletters; and a rotating schedule in which each area user group formally invites all other user groups to attend one of its regular monthly meetings.

- 1:00pm. Bud Mills, THE LATEST ABOUT HORIZON RAMDISKS AND THE P-GRAM CARD.

- 2:00pm. Andy Frueh, PROGRAMMING MUSIC ON THE TI

- 3:00pm. Ron Markus, THE DIGIT SYSTEMS AVPC CARD

ROOM 150

- 9:30 am. Jim Horn, SERVICES AVAILABLE ON COMPUSERVE

- 10:30am. Martin Saoley, TI BASE TUTORIAL.

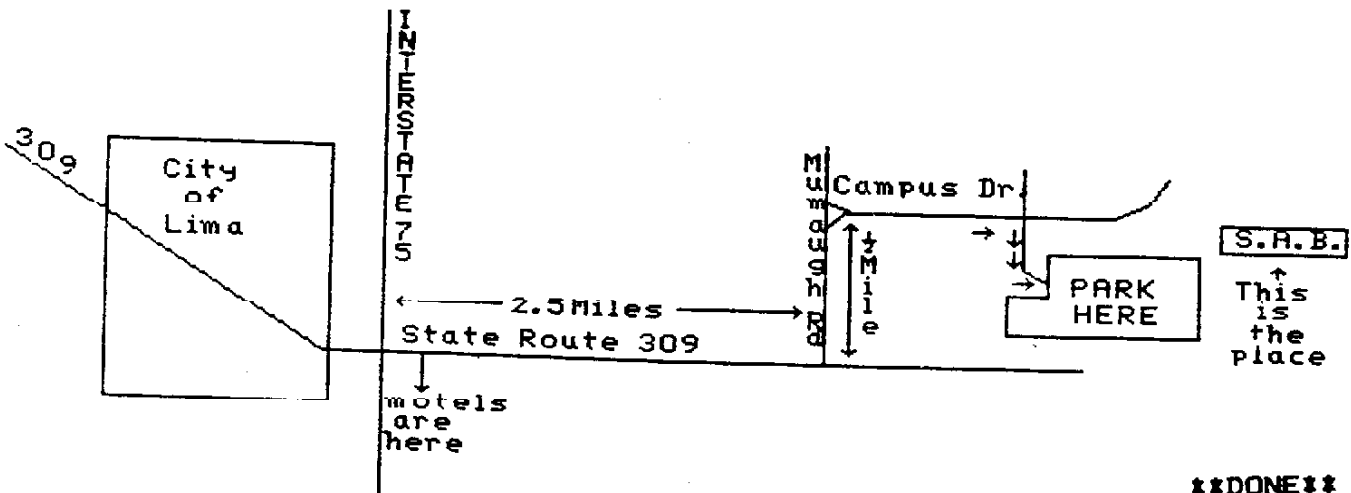
- 11:30am. Paul Scheidewantle, HOW TO CONVERT FROM ONE "ARTIST" FORMAT TO ANOTHER.

- 12:30pm. Steve Karasek, SUPER BASIC v2. This demo will be given by the software author. See the SUPER BASIC version 1 review in the Feb 89 issue of Micropendium, and the version 2 review in this issue of BB&P. Version 2 will be officially released at the conference.

- 1:30pm. Irwin Hott, HOW THE BLIND USE SPEECH.

- 2:30pm. Milo Tsukroff (Not in person. This is a videotaped presentation produced especially for our conference.), XX-BOS V3.0 AN ICON BASED GENERALIZED PROGRAM LOADER WITH DISK MANAGEMENT FUNCTIONS.

There are still afternoon time slots available for more demos and space in the exhibit room for a few more tables. Any individual, user group, or dealer who wishes to schedule a demonstration or reserve table space may do so. THERE IS NO COST FOR ANYTHING. THIS EVENT IS TOTALLY FREE. For more information write us at P.O. Box 647, Venedocai OH 45894, or call Dave Szimpl evenings at 419-228-7109.



DONE

LETTER TO THE EDITOR
AXIOM PRINTER INTERFACE

Dear Charles:

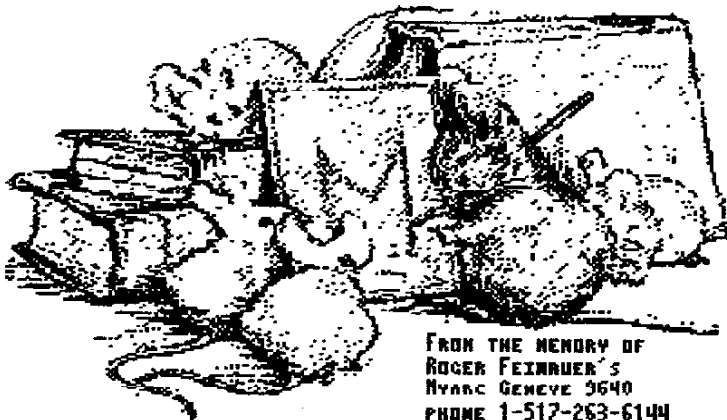
Received the newsletter (4/89) and would like to make a comment on the AXIOM printer interface. Lacking money for an RS232 card, many moons ago I purchased the AXIOM. It has been in service for over 3 years and with no problems. I was frustrated each time I encountered a program specifying RS232, VARIABLE 132. This involved changing printer parameters to a lengthy "OPEN #1:*PIO.LL=132, VARIABLE 132" (the AXIOM command for 132). The manual (page 13) explains how to change to RS232 but the user loses many printer

options. So... why not have the best of two worlds. I installed a DP/DT toggle switch (Radio Shack) on the front edge of the AXIOM case and, following the manual, wired "PIO" to one side of the switch and "RS232" to the other. Now I simply toggle back and forth to either option. I have yet to encounter problems. As you would state, DONE

Harry Allston

10300 Kings River Road #57
Reedley CA 93654-3622

DONE



FROM THE MEMORY OF
ROGER FEINBERG'S
MYARC GENEVE 9640
PHONE 1-517-263-6144

Hello, I have a ton of things this month so lets get started. First off, I got a plain envelope from Genial Computerware about a week ago, in it was a disk. On this disk was my copy of Picture Transfer, With all the functions working, and very neat at that. I found that if I load Myart 1.14 to do some art work, exit back to Dos then loading Picture Transfer, and typed SH 2, for show buffer 2, I could view the same picture I was working with, out of Myart. This is just a tid bit I thought I would share with you. If I wanted to I could save the picture as a Gif format picture. But, I still wished I could save in RLE format. Then, I could use some Graphics with the software I use to do the news letter. All and all though, it is a very fine piece of software.

I was reading in the May Computer Shopper that Alan Beard and Paul Charlton has produced programs for programers. Alan has written a version of Fortran for the 9640, for \$69.95 From Disk Only Software, P.O. Box 244, Lorton VA. 22079 (1-800-456-9272) Paul has written a complete "Programers Developers Package" Which is a massive work, no price is given. It can be obtained from Genial Computerware, Box 183,

Grafton, MA 01519 and Disk Only Software.

Clint Pulley 38 Townsend Avenue, Burlington, ON, Canada L7T 1Y6 (416-639-0583) has interim version of c99 for Mdos, He is asking \$20.00.

Also, Myarc has put the second version of Advance Basic Beta on the boards. So that more people could help in the final debugging of the program. I tried to down load this from Taylor Town BBS out of Detroit (313-291-4415) but got nothing but errors I will be trying this again. I am very interested in this as I'm writting a SPC program for work Xbasic, and Super Xbasic hasn't the Graphics that I need. As GW Basic is very close Myarc Advance Basic with the use of PC-Transfer I could port them between machines and do most of the debugging at home. Well, I just down loaded Advance Basic and got it to work. But, I had to run my other Autobat without TI-Mode it didn't seem to want to run with Ti-Mode in the Autoexec. I tested it with my Rave speech card and it seem to work, except when I tried to load a TI-XB game which didn't have speech in it, Using Graphics(1,2) the Speech card went nuts blinking real fast and of course locked up my computer. Also, looks like it will take me sometime to get use to all the Graphics modes on the Geneve.

Why doesn't Myarc have their own BBS? Or better still, get with a few of the boards across the country?, and have them as their offical boards. Alot of people like myself haven't or can't afford to use the pay boards but can

from time to time use the free boards. Or would like to use the pay boards but find themselves lost once they log on ("Just A thought").

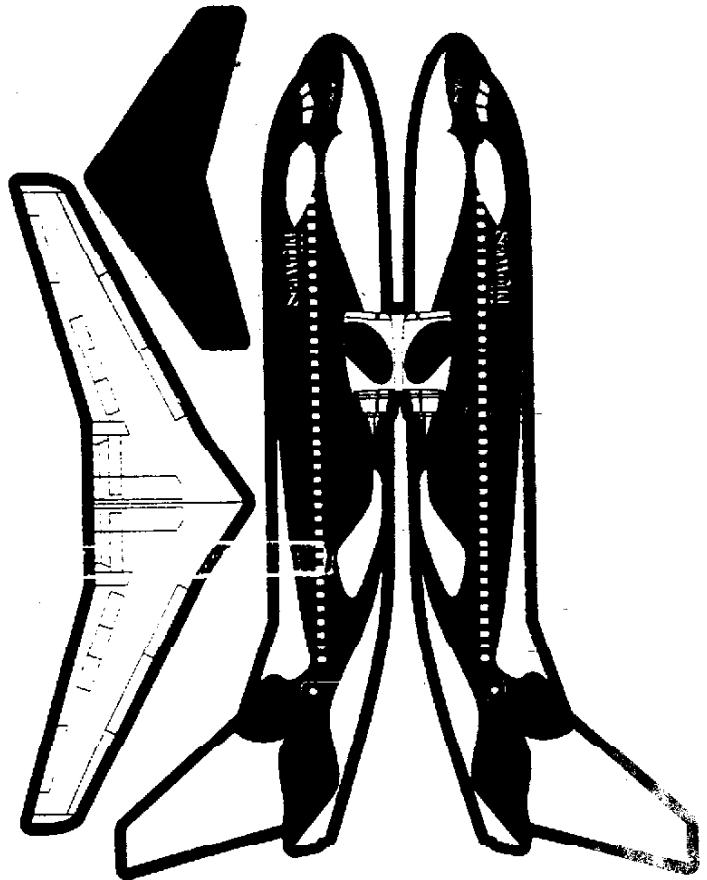
The other day I recieved a disk from PC WORLD Magazine. As I don't have a PC at home, I used PC-Transfer to look at the disk. I found that I could transfer C source code for Turbo:C to Ti format and read it. Small c doesn't have all the library's so I couldn't compile the source code. If someone out there could write some c library's that would match the large C's, things could get interesting. I haven't tried Fortran source code but I guess this could also be transferred.

Back to Advance Basic, if you type in at the command line `CLS :: DISPLAY AT(3,62):TIME$` you get the current time from the Geneve's clock in the upper right hand corner of the screen. One of the things I don't like, is when you break back to the editor it seems the screen keeps what ever colors it was using in the program. But, this could be my fault as I only played with it fifteen minutes. Something else is missing and this is only because I'm use to PCbasic, is the small command menu at the bottom of the screen. If they do put one in I hope it will tell what Graphics mode it is in as at times this could become confusing. Other than this haven't really played around much. Oh, one more thing I typed in the mouse demo in the the back of the Advance Basic manual and found that it gave me a syntax error for the line that has the sprite. I Will need to check this more to find out what happened.

With Myword 1.22, every once

in a while the keys react funny. Such as the left arrow acts like the home key and the and function 9 key doesn't work. I have found by accident that sometimes the oops key CONTROL I will get it working again. Maybe Myarc should do like the PC's, not only looking for the ASCII character codes, but also check the position of the key that is pressed. At what location on the keyboard is the the key based on a x,y grid. This way the computer would know which key was pressed. Such as the one key on the right hand of the keyboard or the one key at the top lefthand of the keyboard or, function 9 or ALT 9. I think you get the picture.

Well, this is all I have for this month, but hope to see some of you, at Lima, Till next time have fun.



Typewriter 99

by Bill Tiep

This program is an electronic typewriter. It has the feel of an "electronic typewriter" with centering, underlining, right justifying and more.

For some people a word processor might be overkill or they might find it easier for a short note. This could be used on many other forms, pictures, etc.

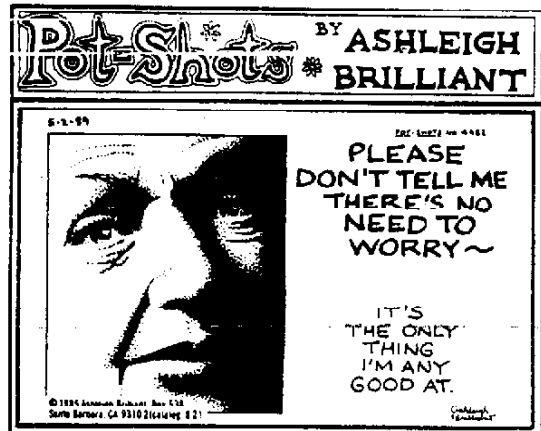
There aren't any files to mess with or disks to keep track of. You just start in without the muss'n fuss of the w.p., the commands are simple and straight forward.

"TYPEWRITER99" is available on disk, tape and cartridge. To load from disk on drive one use E/A #5 (DSK1.TYPE) or TI-WRITER option #3 (UTILITY). The file name is "TYPE". The other option is to use EXTENDED BASIC to use the undocumented loader.

The program takes you through a setup each time the program is started. I find this to be somewhat redundant. They could have created a small file with your standard defaults to be overridden on startup. It begins with selection of your RS232 (this must be correct or it won't work), right and left margin. At the top of the screen you can see both right and left margin flags, also a small plus symbol to show you where the cursor is on the line. A bell sounds when the cursor is four spaces from the right margin.

Some of the options are the set on/off key click, tabs, linewrap, bold face, center, underline, spacing, justify, delete, insert character, windowing, screen colors (white on blue background is o.k.) and reset margins, spacing of 1, 2, and 3 lines. There are two modes of printing. Line mode is being able to type an entire line and edit if needed before printing. With type mode, each character is printed as the key stroke is entered.

POT-SHOTS BY ASHLEIGH BRILLIANT



MDOS TEXT EDITOR by CLINT PULLEY

QDE - a Quick 'n Dirty Editor for MDOS (version 1.5 88/03/10)

Public domain software from Clint Pulley

Introduction

QDE is an 80 column screen editor for native MDOS on the Myarc 9640 computer. It is based on a public domain editor of unknown authorship which was written in C for MS-DOS on the IBM PC. The source code for that editor has been converted to c99, all assembly language functions have been rewritten, and several new features have been added.

The result is QDE, a text editor (NOT a word processor) which is well suited for source program entry and the preparation of short documents.

QDE differs in many ways from the "standard" editor/word processor on the 9640, MYWORD. Wherever possible similar control keys have been used, but the internal design of QDE has led to a different approach for many operations. The best way of learning QDE may be to try everything on a test file, taking care to rename the output file or remove the diskette.

Implementation of QDE on the 9640 required the use of direct screen output (the "old-fashioned" way). The screen is completely rewritten after each keystroke, and the inherent speed of the 9640 hardware results in a flicker-free screen presentation. Unfortunately, the screen output functions in MSDOS are far too slow to be used in this manner. As a result, QDE runs with interrupts disabled and may not coexist with future multiprogrammed applications. Testing with MDOS 1.01 has not revealed any problems.

Using QDE

Assuming that the diskette containing QDE is in the default drive, the editor is invoked by the command line :

QDE [filename] (any legal MDOS filename may be used)

If invoked without a filename, QDE presents a blank screen for editing. An output file name may be provided by using the "name output file" function key.

If invoked with a filename, QDE checks for the existence of the file. If it is not found, the user is queried for permission to create. A negative reply results in an exit to MDOS (allowing the user to recover from a misspelled filename), while a positive reply causes the filename to be retained for subsequent saves (the file is not created at this time). If the file is found it is loaded into the text buffer and the first screen of the file is presented for editing. The warning message "Input file truncated" is displayed if the file is too long for the buffer.

Acknowledgement

Ralph Ford of Auburn, Alabama was kind enough to send me a copy of the original editor two years ago, but QDE had to wait for the availability of the Myarc 9640 computer and the MDOS implementation of c99.

QDE Function Key Usage

The character is used to indicate pressing the Control key together with the indicated key.

The arrow keys are used for cursor movement.

F1 - Delete character under the cursor (also Del key) F1 - Oops! Recovers line altered by in-line editing F2 - Start insert mode (terminated by any function key) (also Ins key) F2 - Paragraph pack (stops at next line with space in the first position) F3 - Delete current line F3 - Undelete line (see note re use of delete buffer) F4 - Page screen up (also Pg Up key) F4 - Roll screen down, retaining cursor position on screen F5 - Display current editor status F5 - Duplicate

current line F6 - Page screen down (also Pg Dn key) F6 - Roll screen up, retaining cursor position on screen F7 - Split line at cursor position F7 - Join next line to current line F8 - Insert blank line before current line F8 - Swap current and next line F9 - Find string (prompts for search string) F9 - Find next string (uses previously entered search string) F10 - Replace string (prompts for search and replacement strings) F10 - Replace next string (uses previously entered strings)

Ø - Change screen color (4 sets)

A - Append marked lines to end of capture buffer B - Move cursor to beginning of line D - Delete marked lines to capture buffer (rewrites buffer) E - Move cursor to end of line G - Get file (prompts for filename) H - Backspace (deletes character under cursor) I - Tab to next multiple of 4 characters (also tab key) K - Clear from cursor to end of line L - Set left margin at cursor position N - Name output file (prompts for filename) O - Home cursor to screen upper left Q - Move to start of text buffer R - Rewrite capture buffer with marked lines (does not delete) S - Save file, using filename from command line or N T - Transfer capture buffer to text buffer at current line U - Enter control character (the next character is biased by -64) V - Move cursor to left margin W - Wipe text buffer and clear filename (prompts for confirmation) X - Set mark for capture buffer functions (X marks the spot!) Y - Reset left margin to position 1 Z - Move to end of text buffer

Esc - If followed by second

Esc, terminates editing and prompts for file save (uses filename from command line or N) If output file errors occur, returns to editing QDE Usage Notes

1. The TEXT buffer - This is the visible work area for the editor. Files are loaded into and saved from the text buffer.

2. The DELETE buffer - QDE has a circular delete buffer. Deleted lines are copied into this buffer and may be retrieved (in reverse order) with the Undelete function key. This provides a useful method of moving a few lines to another location in the text buffer.

3. The CAPTURE buffer - QDE has a linear capture buffer which can be used to move larger blocks of text within a file or between files. The function keys used for capture buffer operations are Set Mark (X), Append to Buffer (A), Delete Marked (D), Rewrite Buffer (R) and Transfer Buffer to Text (T). A block of text is delimited by moving the cursor to the first line in the block, pressing X, then moving the cursor to the last line of the block. For single line operations, use of X is not required. The operations which move the marked block to the capture buffer are :

A - Appends the block to the end of text already in the capture buffer. This operation does not delete the marked block from the text buffer. D - Replaces the contents of the capture buffer with the marked block and deletes the block from the text buffer. R - Replaces the contents of the capture buffer with the marked block. This operation does not delete the marked block from the text buffer.

The mark set by X is cleared by A, D or R. Any capture buffer operation which would exceed the buffer's capacity is not executed.

The contents of the capture buffer are inserted into the text buffer by moving the cursor to the desired location and pressing T. The capture buffer is not cleared by this operation, so multiple transfers are possible. The capture buffer can be used for moving text between files (ie. capture a block of text, get another file, and transfer text to the new file).

4. Non-printing characters are generated by pressing U which results in the next character being placed in the text buffer biased by 64 (this results in the same character mapping as in MYWORD). If multiple non-printing characters are required, U must be pressed before each character. The symbols displayed on the screen when non-printing characters are present do not represent anything in particular and are dependent on what MDOS has loaded into video memory.

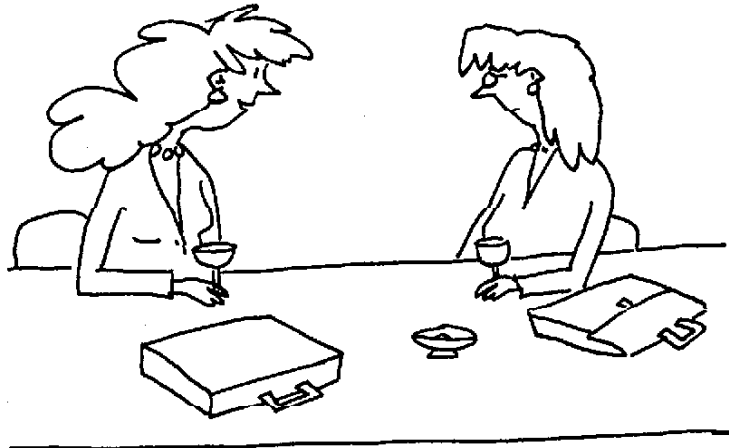
5. When entering large files, the status display should be checked periodically to ensure that the text buffer does not become full. It is good practice to leave 30-50 lines available to allow for future expansion of the file.

6. A printed listing can be obtained by using N to change the output filename to the printer and then doing S. The output filename should be reset afterwards to avoid unwanted listings.

7. The paragraph pack function provides a very limited document preparation

capability. All lines from the current cursor location to the line preceding the occurrence of a space in the first character position are packed with as many complete words on a line as possible. Lines at the end of the paragraph which become empty are cleared but not deleted in this version of QDE.

8. QDE v1.5 buffer capacities are : Text - 557 lines, Delete - 5 lines, Capture - 64 lines.



P.C. VEY

"He's not only good-looking and intelligent, but he has his own fax."

