## Vol.8 No.10 December 1990



#### NEWS LETTER

NORTHWEST OHIO COMPUTER CLUB FOR THE TEXAS INSTRUMENTS 99/4A

AND THE MYARC GENEVE 9640 PERSONAL AND HOME COMPUTER

MERRY CHRISTMAS FROM ALL OF US TO YOUR'S.



M.W. ONIO 99'ERS USER CRAUP VEIRST CHURCH UNITY 3535 EXECUTIVE PARKWAY TOLEDO ONTO 43606

Dallas TI Home Computer GP PO Box 29863 Dallas, TX 75229







Merry Christmas to one and all, and I hope each and every one all the best for for the rest of this year and the next.

Some thoughts about last months meeting, How many tryed TI-Writer? I hope some of you have. If an please bring what you have been working on to the meeting. Also if you are having any problems with it bring these to the meeting also. The funny thing about the software is if you don't work with it you only learn about one-tenth as much as if you used it. So bring it with you.

Roger Feinauer will be doing a demo with Archiver 303 which will be interesting. Also we will have more on TI-Write, so you may want to bring pencil and paper so you can take notes. This will help you to remember what went on in the demos.

The club disks will be on seli as usual. So help the club bye the club disks. If we don't sell many. This may be a very lean year indeed. MICROpendium will also be on sell as usual.

We will also have our 50/50 drawing, and the drawing form the drawing program.

If you know anyone who is interested in bying a computer but doesn't know what he wants bring him to the meeting. He may just find that the TI is just what he is looking for. "SEE YA!



Vote

During the Dec. meeting we will be taking Nominations and voting for club officers.

The following are nomines that have accepted:

FOR V.P. Bud Mills
FOR TREAS. Earl Hoffsis
FOR SECRETARY Marilyn
Schafstall

The officer of Fresident is at this time without a nominie.

Everyone should attened this meeting and partake in this election. All nominies must be paid up members for the year of 1991

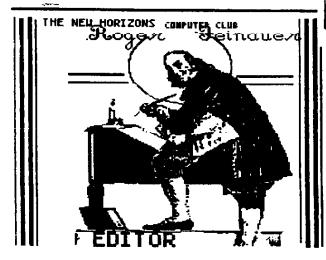
Jo Symington
Nomination Comm.
Chairperson.
phone 1-419-474-4128



Club dues are due for the 1991 year. Cost is \$15.00 per member or family. What do you get for this sum you may ask?

preview the most recent software that IS still coming out for the TI99/4A. If you have trouble with something that doesn't work right or you can't seem to figure it out maybe we can help.

03



Well this marks my lost issue os your Newsletter Editor. And through it all I have had a wonderful time. When I started all I new about writting on TI-WRITER was how to load and save files with the text editor. now I Know how to use the text editor, the Formatter, and how to use the Control U functions to the max. And along with this also a little bit\_of programing in Bosic and Extended Bosic. mostly to do things faster or better with my text files. \

I know a lot of times I sounded a lot of gloom and doom. But, most of the time I was just showing a soft spot for our computer.

Right Know I find myself really excited, because I have been looking at other country and am finding that there is a lot still going. on as far as new software is concerned. The only problem is the information isn't getting spread like it use to. You people if want to see some realy great stuff see if you can get someone to show off there 80 column card for the 99/4A. You say there isn't any software to run. Guess again, Funl/Webb will now run in 80 column mode. So will Telco, And now there is a new progam

call YAPP from Asgard Software. That uses 182k. of the 9938 chip. This is even more then the Geneve has on board. It has most of the functions the Geneves Myort program + more. It has DSR's for most of the input devices such as both Myore Menitech mice, joysticks ect. The program will also load Ti-Artist Fonts for its text in the picture also will load the boarders set to put in boarders. the program at this time won't load Artist Instances as yet but you can fool the sofuare into load them. Load the E/A editor and load a Instance file. On the first line there are two numbers such as '10,14' well add a third number such as '10,14,10', then press function 8, to insert a line. At the left mest column put en 'A' there. Then save the file in DV 80 such as DSKn.NAME\_F WHAT YOU HAVE CREATED IS A SINGLE CHARACTER FONT FILE. Which will load your graphic clip ort. Also Mike Dodd's Identifile program will run în 80 column mode, Mocflîx, and the Boot program to mention a few. At this time I would like to thank Dan Block for the ERS loader for Adventure modual now I won't ever need this cort anymore.





Let's turn the page, and finish this race.

Pace

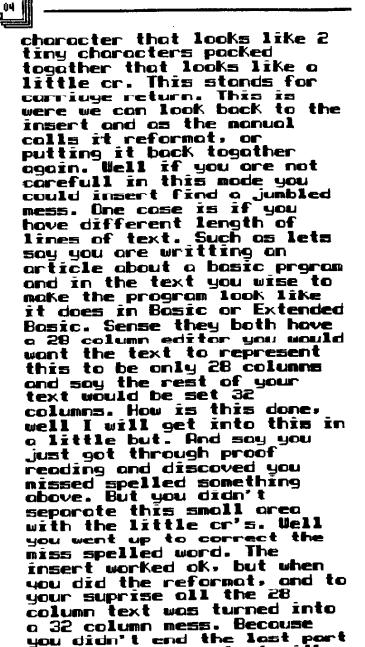
Thoughts on TI-Writer bu;

Roger Feinauer

Good day to everyone and hope every one is doing fine in every way. Well last month we started to study the many uses of TI-WRITER and hoped what you seen from Earl's demo last month was enough to get you started on your writing endevors.

One important thing to remember is that TI-Writer. Hos three modes, when the editor is loaded. Most Versions load in what is called word wrap mode. This can easily be told by looking at what shape the curser. If it is a solid box then you can assume that it is in Word Wrap. What does this mean you night ask, well, for one thing in this mode when you get to the end of a row and in the middle of a word the computer will automotily carry the whole word to the next line. In this mode you will also find that if you insert a letter or word, by using Function 2 you find that everything ofter the curser drops down one line. This inables you to insert one letter or a whole phrase. Then if you want to reconnect the word or phrase back that which was droped down one line. Just press Control 2 and what seems like magic everything seems to be sowed back up like it was, neat hol. One last item in Word Wrop mode never hit enter untill you have finished a paragraph. This is what the program uses to lock in a group of words for word wrap. When you hit enter in this mode you will see o





for the next. Well, moybe I should mention a little bit about They let you set the Tobs. column width of rows of text. Also set the indents rous of for the begining of paragraphs, and in some comes even met a bell for end of morgins. To uccess these, and as a matter a fact all the editor functions you must go to the

of the 32 column text with

the little cr's, SOMTHING TO REMEMBER. Well now to press

enter to end this paragraph

Pace 05

command menu. To do this from any were in the editor simply press Function 9. You will be greated with a line at the top of the page with some options. To do this you will notice that all of the options have both some upper and lower case text. To make any of the active you can either type in the whole name or just the upper case characters for each command. The only important thing to remember is you have to be at the command menu to make them work.

To set the Tabs press function 9, and ether type Edit Tabs, or just simple ET, ether will work. The screen will change at the top of the screen only. And a dotted ruler will apear With numbers 0 three 7 will devide it up. To set the Tabs put a L were you want to set the left margin and a R were you want to right margin set. Also for paragraph indents place an I right of were you placed L the amount of spaces you want the editor toautomatically set at the begining of each paragraph. So for this article I set the Tabs L=0 I=2 R=28 and because i'm using the Funl/Webb disk that was sold at the last meeting it has a bell option which I set B=25just to let me know I was at the end of a line.

The second mode for the editor is the Line Mode or Program mode. To change to this mode simply press Control 0. Again you can tell you are in this mode by the shape of the curser. If it is a hollow out line character then you are in line mode. In this mode word wrap is turned off so when you get to the end of the line, you can keep on typing but the last letter of the line just gets replaced by what ever you typed. To get

to the next row you must press enter. This mode is most use for text that must be save without control codes. Such as the Editor Assembler, Fortan, small c. Font Writer II or the like. Their is more it can be used for such as merging portions of text form other file or saving portions of a file to be used latter.

the last mode is called Control U. And again the Curser changes again to an under line character. To change it back simple press control U again, and it will return back again. This mode is used to imbeded printer contol characters in the text.

Three last commands are Load File, Sove File, and Print File. And again these can be accessed by ether typing in there full name or just those parts capital letter. Well thats all the meeting. See Ya!





These crozy dogs, i've got one at home thats just as silly.

Tip on Page fro on the Geneve, because of the speed difference you may find that when doing a directory the system doesn't respond to the space command to read more files. Well the problem is you released ether the the control key or the "C" too soon. Just hold the key a bitt longer and the comman, will work as it should.

## QB MONITOR ~ QB-99'er NEWSLETTER Reprinted From HOUSTON User Group (HUG) Newsletter

Page #

30

PROGRAMS, FILES, AND LOADING

#### By Richard Lumpkin

The following information is a merging of various articles from: Topics, LA 99ers; "Gil" Gilaore in the Aug 86 Shoals Ildinos, via SMAUG/99, May 88; San Diego fl SIG, Dct 87, Woody and Ilgercub YIPs, plus a reprint of Jerry Bentzinger of the Daaha II US, May 1986; Jia Makeei, Northcoast 99ers; Rich Klein of the Chicago Ilaes; and some other random sources and old notes.

One of the larger problems for the Movice Tiler, or for most any Computer User, is MOW TO GET THE PROGRAM INTO THE MACHINE AND STARTED. The most common source of programs for the 99/4A these days, and the ones where the trouble starts, are the Disk programs. These are a problem because virtually All FORMATS of File Storage are used and found on disks, and because of the widerance of Programs being created and distributed on Disks. SD...as a cookbook guide to Programs and the Operation Thereof, I will contribute....

The original question of "HGM" is directly related to the question, "What have I got on this disk?" The general answer for the 99/4A, and for most computer disks, is that the disk is inhabited by "Files"-mahich fall into three categories, based on CONTENT:

- 1. Text Files-those devoted to thuman' languages.
- 2. Program Files—those devoted to "computer" languages and which "operate" the computer.
- 3. Data Files-those with aultiple occurences of similar groups or types of information, and which are accessed or used by Other Programs.

Text files can be anything which is produced or read / printed by a Text Editor Program—letters, accos. BBS accesses or downloads to be read, etc.

Program Files can be in various FORMATS, depending on the type of computer, and can be in various computer languages—BASIC, PASCAL. FORTH, FORTRAN, LOGO. etc., or the Machine Language of that particular computer, either as "Source" code or the resultant "Object" code file.

Data Files are those which contain INFORMATION, which is (random) accessed by the Programis). It may test, program commands, machine language numeric values, stored number values, pictorial or graphic data files, etc., and may be stored in almost ANY FORMAT or FILE TYPE, depending on the Creating Program.

A. FORMATS of files on disks are dependent on the computer; the 99/4A uses FIVE storage formats or "shapings" for Files: Display, Variable (length); Display, Fixed length; Internal, Variable length; Internal, Fixed length;

8. FIRST STEP with any DISK or cisk-based PROBRAM is, CATALOG IT. Then you can see what files you have and eave pick up a few clues to the Load and Run procedures from the names and types of files on the disk. Most DV-80 files are TEXT files and sometimes contain the documentation or instructions. In which case they may be named "XYI/DOC" or "READ-ME", which is exactly what you should do, or better yet, print them off with II-driter or a "File Reader".

DISKS CATALOGS list out as follows:

Filename Size Type Rec 1

Filename==ihis indicates the MANE of the File: it will be refered to or called up by: DSK1.NAME for DSK2. etc) whether from the keyboard or from within the frogram or Losser.

Size==this indicates the number of sectors the file occupies on the disk, and can be a clue to the required Load procedure.

Type==tells what type of storage format was used in placing the File on disk. Usually the BEST CLUE to "What it is".

Rec==tength, in bytes, of the Records in the various File Types:

Display/Variable: "D/V 80" = 80 bytes Maximum per Record in the File.

Display/Fixed: 'D/F 80' = 80 bytes on Each Record in the File.

Internal/Variable "I/V 254"

Internal/Fixed \*I/F 128\*

Program \*PROS\* = ino certain Length or Record definition.)

P==Protected (supposedly) from sing copied or written to, by a rather sple scheme. It does have its uses, ...ever.

C. FILES found during the cataloging of a disk will depend on the type of Programs on the disk.

- 1. If it is a disk of "I-Basic Games", you will find eastly "Program" type Files and possibly some "Int/Var 254" type. You may find OME File named "LOAD", and possibly one or several "Dis/Fix BO". There may me a "Dis/Var BO" named "READ-ME", but it is unlikely you will find a large file space of B/V 80 Files.
- 2. A disk dedicated to a single Program of large scope, such as Funnelmeb, will usually have a large amount of documentation in D/V 80 files, and possibly a "Reader Program" to run in I-Basic, lif the Program is made to run WITH the I-Basic module, it will almost always have a "LOAD" file and multiple files of "PROGRAM" or 9/F 80 types which the "LOAD" File accesses and Loads.
- 3. A disk which has a number of Display/Fixed 80 Files and NO Program named "LOAD" is probably Nachine Language (Assembler) Files which will have to be LOADed and RUM from Editor/Assembler Option 3 or Funnelses Loader 4, particularly if the Files are named sequentially: "GAME", "SAME", "SAME",

Other disks any have a series of "Program" format Files which will not Load into 1-Basic. These will probably have to load via E/A Oction 5. ("RUM PROGRAM"), or Funneisee Loader 43. or II-Mriter Option 63. particularly if there are names such as "UTILL", or a series of sequential names.

- 4. A disk full of text files will USUALLY be "Dis/Var 80° Files, since that is the Form that II-Mriter uses, but other word processor programs operate with some variations of D/V 80. or other File Formats, so you may find other "Text" file types, with possibly a File Reader Program. Within specific programs there may also be feet files which are NOI D/V 80. SOURCE Code Files of Assembler Programs are also Dis/Var 80 Files, so technically. THOSE "Text" files could be called in-completely processed "Programs".
- 5. A disk with Dis/Fix 128 Files usually either has been downloaded from some other system, and could be an RLE Graphics File, or it has been ARCHIVED. These Files must be De-archived and returned to their original fore before the actual File types enclosed in the archive can be determined.



# QB MONITOR ~ QB-99'EF NEWSLETTER Reprinted From HOUSTON User Group (HUG) Newsletter

PROGRAMS, FILES, AND LOADING......Page 2

- b. Some other file types such as Internal/Variable 128 may by used by Graphics programs or other DATA programs. The source frogram may be necessary for these files to work. Archived Files which have also been COMPRESSED are also in Int/Fixed 122 format.
- 7. ALL types of Files eav show up being used for DATA Files, depending on the Disk and Program involved. Int/ver 64 and Int/ver 123 seem to be common in this form.

HOW Int/Var 254 Files of LESS THAN 45 sectors will NOT be X-Basic frograms, but rather Data or Text Files.

#### D. LCADING PROGRAMS

- 1. The easiest programs to load are those which are in module form. In which case the Hodule Henu is usually close to self emianatory, but the "user's outge" may tell you a lot more about HOW TO use it best or easiest. Some info and tips may not even be in the module guice either, for that matter.
- 2. The next easiest to Load inot necessarily to USE) are the Programs which combine a Module with a Disk. Usually the module has a nenu screen and then auto-loads the portion of the disk which is being used. The documentation may be on the disk but usually is in a users guide and ranges from very skiepy ("hints") to downright over-whelming (the manual for II-Writer, for instance).
- 3. Cassette was the first storage medium for most home computers, 99/4m included. Cassette-based programs are virtually ALL RUMable programs and, for the 99/4m, usually RUM in PASIC, since about the time people started widely using Extended Basic they also went to disks. Loading is by "OLD CSI" for both RASIC and I-Basic, as per the Users Reference Guide (green hook) pp II-40 to II-92. See also the previous article on II-Basics for Loading information.
- 4. A. RUNable "Programs" ther Basic/I-Basic) on disks are usually "PROGRAM" format up to about 40 sectors. or. for IRasic Programs longer than 40 Sectors. "Int/Var 254". These are loaded and run via "OLD DSKx.filename", and then "RUN", or for I-Basic, via "RUN" DSKx.filename" which loads and starts RUNning immediately. Haxiaum size of Int/Var-254 I-Basic Files is 97 sectors, and they only exist in Remory Expansion systems.
- B. Following are Tips to determine Basic/X-Basic type, since Basic/I-Basic will each Load the other type of

Programs from cassette or disk, but not necessarily RUN properly:

Most BASIC Programs will load and RUN in I-Basic, but may get a "BAD VALUE ..." error if they use characters from set IS or 16, or if multiple colons were used in PRINT lines for Linefeeds. I-Basic Programs not only will not RUN in BASIC, they will not even LIST properly. SO if you are in RASIC and try to LIST the program and it goes real slow and has a lot of garbage, it is I-Basic. IF it LISTs ok an BASIC and has ALL single-step LINES (no double colons between statements in a LINE) and NO statements such as "DISPLAY AT"; "LINPUT"; or anything whatever to do with SFRITES; then it probably is in BASIC.

- C. Another (sub-routine or partial Program) fore used with IDasic Programs is the "MERGE" foreat: Dis/Var 163. These can be loaded via: MERGE "DSKx.filename", to combine with the Program already in memory, and then RUN. Any regular Program which is saved via SAVE DSKx.filename, MERGE will be stored in this MERGEable Format—Dis/Var 163, and must be re-loaded via the MERGE command.
- D. ANY IBasic PROBRAM File with name "LOAD" will auto-load and RUN if it is located on DSK1, when the I-Basic endule is first selected from the console menu. These programs are usually Entry or Menu Programs for a larger Program or group of Programs on a disk. Only OME "LOAD" file can exist on a disk at a time.
- E. NOTE: PROSRAM format files that CANNOT he loaded and RUM are created by Scott Adams Adventures iusually 54 sectors; by the Personal Record Keeping and other modules as data files, in non-determinant lengths, and by the Tunnels of Boom Program, lusually 52 sectors; II-Artist creates two 25-sector FROGRAM files for each picture SAVED, with names tagged /P and /C. Such "Program" files can ONLY be re-loaded and used with the module or Program which created them, usually. Other non-executable PROGRAM files exist as DATA Files, such as CHARAI in many Programs.

ANY "FROGRAM" format files over 49 sectors will NOT be BASIC / I-BASIC: 12 is probably a Data File.

- F. Additionally, the 1/Y 254 and the D/V 163 foreats MAY be used for DATA files in some programs, and these would NOT be Files which could be Loaded and RUN, regardless of length.
- 6. Generally, for PROGRAM files land Int/Var 254 files) which appear by CONTEXT of the disk or FILENAME to be RUNable Programs files, try I-Basic

"OLD..", then if they will not load, try using E/A 5 to Load thee. If they STILL will not Load, they may be DATA files.

- HINT: Funnelweb SHOW DIRECTORY will indicate whether a "Program" File is IB or EA type, also: if you press " = " while on the directory screen, FN A.O will check EACH "Program" File and indicate the type in the REC column by these initials. REC will remain blank for any "Program" file which is a DATA File. This is one of the best ways to find out WHAT IT IS, for the required operating mode of a "Program" File.
- "Program" files of 33 sectors (or less) and usually have "chained" names like "UTIL1"; "UTIL2"; "UTIL3". They are Not RUNable in B/I-B. These are Machine Language Program lange files and are Loaded via the Editor/Assembler option 3 "Utility", or Funnelmeb Loader 3 (in Formatter Manu Screen, Loaders Option 3 "Utility", or Funnelmeb Loader 3 (in Formatter Manu Screen, Loaders Option 3 "Utility", or Funnelmeb Loader 3 (in Formatter Manu Screen, Loaders Option). These files will give an "I/O ERROR 50" if you attempt to Load them via IBasic. These files are actually the series of numeric values which comprise the Machine Language program in the memory of the computer, and are created by the Ed/Assembler from Object Code files by using the Save Utility. They can be no more than 8192 bytes in length, therefore will catalog at 33 sectors for less). When they are Loaded, they are passed directly from the Bevice where they are stored into the memory, in sequential order, and therefore Load relatively quickly.
- B. Memory Image files are loaded based on a three "Word" Header at the beginning of the file, as follows:
  - 1. The first Word is a flac which indicates whether this file is the Last File in a series by value zero; any other value indicates that there are eare Files to Load in the series, based on the sequential names.
  - 2. Second Word (third and fourth bytes) of the File is the Length of the Headry laage File. in bytes, including the six bytes of the Header.
  - J. Ihird Word in the Header is the CPU Address to be in Loading this File; the Reginning address in semory. This means that each 9k (or less) block can be Loaded to an individual area of memory. EIECUTION (at CPU level) begins automatically at the first byte of the first File block loaded. after the Last File has been Loaded.



## QB MONITOR ~ QB-99 or NEWSLETTER Reprinted From HOUSTON User Group (HUG) Newsletter

PROGRAMS, FILES, AND LOADING.....Page 3

C. LOADING a Memory Image File series can be done from Ed/Assembler Option 5, by entering the device and name of the FIRST File of the series:

DSKx.6AME1 (enter)

and the Loader will Load this File. search for and Load the File SAME2 if it is present, etc., and then Auto-Start the Program.

The default Filename (not shown on the screen!) is "DSK1.UTIL1", so pressing Enter at the proupt attempt to load UTIL1, UTIL2, etc if they are on the disk. Il-Writer Option 3, "Utility" and Funnelmeb Loader 3 operate in the same way. It might be noted here that the TI-Writer module is simply a Memory leage Loader with "EDITAL", "EDITAL", as the default names for the Files if Editor is chosen, and "FORMAL", "FORMAL",...as the names for the Files of the Formatter is chosen. Therefore, if you re-mame the DM1000 files MSR1 and MBR2 to FORMAL and FORMAZ, you can Load DRIGOO by choosing the "Formatter" (Option 2) on the II-Mriter module, as an eranble.

The "Utility" or "Run Program" choices on each Loader allow a different Filename or device to be entered, over-riding the default names, to allow you to Load the actual Filenames from whatever disk the Files are located on. In fact, E/A supposedly will Load these Files from Cassette, if you can get them ONTO cassette.

6. A. OBJECT CODE Files are Assembly Language Program Files in Display/Fixed 80 format which have been created with a Assembler from a SOUNCE CODE listing, usually via the Editor/Assembler, but possibly from another compiler such as C-compiler or Fortran, etc. These files are of two types:

Un-compressed Tagged Object Code-which is in Hexa-decimal form for easier re-editing, but must be converted to machine language bytes DURING LOADING, and thus loads more slowly. These may be up to 183 sectors.

Compressed Yagged Object Code--which has been converted to machine language bytes, and occupies only about one-half as much disk space, and Loods faster. Note: there is no flag on the file to indicate

the distinction between Coapressed and Un-coapressed Files, but if viewed with a Sector Editor program, the Coapressed cannot be read. These Files may be UP TO 185 sectors in length.

8. Object Code Files can be either:

---Relocatable, for which the Loader (Module or Programs may place the Code in different areas of memory and then establish entry points by REFerence, and

---Absolute, which must be loaded into a specific location in memory each time.

- C. LOADING Tagged Object Code eay be done via E/A Option 3, Funnelweb Loader Option 4, or Mini-Meeory Option 1, "Load and Run"; for ALL foras of Object Code. The procedure is to:
- 1. Choose E/A 63 or FW (Loader Menu) 64 or M/M 81;
- 2. At the prompt "FILENAME?", enter the Source and Filename(s): (there is no Default Name built in) BSK1.FILE1 (enter)
- 3. Loader will prompt for \*FILENAME?\* again:
- DSK1.FILEZ (enter) (NAMES series are (present on the DSK1.FILEJ (enter) (disk.
- 4. Then, if no more Files are required, (enter);
- 5. Loader will ask for "PROGRAM NAME" indees the last File AUTOSTARTED): You must Enter the Name assumed as the Start of Program REFERENCE. This REF may be listed in the final sectors of the last File, if you do not know what it is. ALSO, Funnelweb mill list out the REF table of names for you, if the Program did not Auto-start, so you can look for something like: "START", "60", "RUMIT", "BEGIN". "(the Program name), or something like: Program name), or something likely REF Name of six didits or less, to try is improgram NAME".
- D. It is also possible to Load Hexa-decimal form Object Code via the Extended Basic Module by using the following series of commands:

CALL INIT
CALL LOAD('DSKx.filename')
CALL LINK('program mame')

EXCEPT: Coapressed Object Code cannot be Loaded through I-Basic DIRECTLY.

NOTE: X-B only recognizes the Low Recory area >2000 to >4000, and provides reduced support routines, as chapared to Coda Loaded within the E/A or Hini-Hemory environments. Also, I-Basic will not resolve external REFerences between Files and requires EQUates into the EROM utilities after CALL LINK, rather than accessing them directly. Therefore, it is possible to Load a Program which will ERROR out during running on an incomplete REF-DEF series or lack of GPL Utility support via EQUates into GROM. Also, it is a SLOM Loader due to GPL operation basis. However, there ARE Object Code Files which have been designed to Load and Run via the I-Basic andule, and they DO enhance performance of an otherwise SLOM language speed.

Although MO DIRECT METHOD of Loading Memory large (E/A SAYE) Files into Extended Basic is provided for, Extended Basic IS used as a Machine Language File Loader by seams of Auto-RUMning Files named LOAD which become Assembly or Program large file Loaders, or which are HYBRIDs and contain Machine Language sections "Midden" within what the 99/4A considers to be the X-Basic Program, either directly or by CALL LOADs from DATA statements. The File LOADs in X-Dasic, is one such "Hybrid" Program, with over 25 sectors of Machine Language Code.

Obviously, atteants at EDITing such a "I-BASIC" PROSEAM can be disastrous since it constitutes an Absolute form of Memory leage Program, at least in part.

- E. Another possible way to accomplish a "Load and Run" of Object Code Files is by BASIC, with the Editor/Assembler module or the Mini-Hemory endule in place, which adds such subprograms as CALL LOAD and CALL SUK to BASIC. Again, ALL system Utilities and REFs must be established, via CALLS and LDADing separate Files.
- F. I hope that all of this does not leave you more confused than ever. If this is any help to you or if you spot an error or something to add, please write and tell me:
- R. Lusekin, c/o Houston U.G. (JUN98/P9

Great Lakes Computer Group, Inc.

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TI-WRITER TIPS #1 - by Bob Seddon -

EDITOR MARGINS VERSUS FORMATTER MARGINS

There are two kinds of margins in TI-Writer: Editor Tabs & Formatter Dot commands.

#### EDITOR TABS

When you create text with the Editor you use margins called Tabe. Tabe are set via CTRL c (PROMPTS). t (Tabe). Enter. This sequence of keystrokes makes the Tab Line appear across the too of the screen. You can type over the Default settings at 0 and 79 and reposition L and R to make on-screen tabs any width within that range.

PRINTING WITH THE EDITOR
You can print text created in
the Editor with the Editor itself by CTRL c (PROMPTS), f
(FILES), pf (Print File), Enter. This sequence of keystrokes prints text with margins equal to the tab settings;
the printer output resembles
the screen.

However, there are advantages in NOT using this method to print. If you use the Formatter instead of the Editor you can print lines longer than 80 spaces. You can autometically number successive pages. You can put Headers at the top of each page, Footers at each bottom. You can make the R mergin flush with the .FI;AD commend. You might want to use the Ampersand to underline, the Each to Print Bold. You can double space and set page length.

PRINTING WITH THE FORMATTER To print through the formatter you must Save the file. Exit the Editor, Load the formatter, reload the file, and then print. The formatter prints the file according to the Dot Command instructions.

FORMATTER OUT COMMANDS
Formatter margins are also set in the Editor, but not the same way as the Tabs. Instead, Formatter margins are typed in (usually on line 0001) as Oot

Commands (.LM n;RM n). Dat Command margins (if present) override Tab margins when text is printed through the formetter. If there are no Bot Commends the file will print out according to the Tab mergins. The formatter follows the Dot Command instructions but does not print the Oot Commends as It does text. The Editor, on the other hand, not only ignores Dot Commends but also prints them just as it will any other text, since it cannot make the distinction between Oct Commends and regular text.

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If you create text with narrow columns so that you can put several parallel columns on one page you need to count the fx-ACT number of lines. Line numbers down the left column give you this number (minus the lines devoted to printer commands) if your on-screen equals your printed work. (NOTE: see box at end of article about the advantages of narrow columns.)

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## SPACE(S) AFTER . : ? ! REFORMAT VERSUS .FI

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NOV 1989

Page 8

Vol. 6 Issue

We can prevent the Formatter from increasing the single space after the final dots of initials, abbreviations, atc. by putting a carat between such dots and the next letter.

Similarly, we need to force in two places after :, ?, and !

If you merely leave two spaces after each one the formatter will reduce your two spaces after each of these down to one unless you follow them with a carat, then the space. Optionally, you can key in two carats (and no space).

SPACES LEFT AFTER:			
	period	initial	?1:
Editor Reformat	<b>1</b>	1	1
Formatte .FI	r 2	2	1
Remedy	space twice	carat	carat

#### FORCED IN CARRIAGE RETURN

The Formatter makes a decision to Wrap based on the R tab setting and whether a word (or ANY group of characters) occupies or exceeds that setting. Usually the last pRINTED character in a paragraph is a period and if it falls on the last occupiable position (R tab setting minus one) you must be careful where you place the carriage return.

- (1) If you space once after the period, then Key CTRL m.
- there is no problem.

  (2) If you cursor down below your text, then Key CTRL m, there is no problem.
- (3) If you key CTRE m in the position directly following the period, the last word in a persgraph will not fit at the end of the line and will drop to the next line.

When it drops, you notice that it SHOULD fit, even when you account for the space before the word and the period following. The Editor Wraps the word around to the next line because it treats the carpiage return

following the period as part of the word, even though the carriage return is not a printed symbol.

If this happens to you, you must break the text after the period and before the carriage return (CTRL g), then Reformat. The word will now NOT wrap to the bottom line. The carriage return also moves up to the original line.

#### FORCED IN FORMATTER COMMAND

similar problem occurs when A you preceds a word with an ampersand, caret, or 0. Let us consider the ampersand which is, of course, a formatter command to underline any word it precedes. The Formatter .FI Commend ignores the ampersand precedes. and packs in Text as though the unfortunately, the the the emperated as a Reforampersand were not there. regular character when Reformatting and, so, will make a decision to Wrap a line based on the presence of it within a line of text, just like the carriage return. This anomaly makes it difficult to create a line of text which appears on screen exactly as it will orint.

There is a technique to insert these codes in front of any (or even every) word on the line. Unlike the carriage return which FOLLOWS a word, a Formetter command PRECEDES 1t. making the previous technique impossible. Turn off wardwrep with CTRL O. This turns your cursor into a hollow rectangle. Move the cursor to the letter hefore which you went on 1. Key in Insert (FCTN 2). Key in the empersand. Everything right of it will move right one column. This is the only way you can make a character appear OM column R.

You can only insert one such ampersand per line using this trick UMLESS YOU RESET THE EDITOR R MARGIN TO A HIGHER NUMBER. If you insert an additional character anywhere else on the line and do not first increase the R margin the last character on the line will vermish. You can precide EVERY

word in the line with a nonprintable character so long as you increase the R Tab enough so that all text and all codes fit on that line. The only restrictions which apply are that you may not mix text and code such that you excede 80 spaces; nor can you Reformet afterwards.

THE NARROW COLUMN ADVANTAGE:

I find it convenient to set on-screen margins so I can see all text without Windowing left and right. Since I also like to leave the four-digit column numbers on the left side of the screen at all times, the highest possible R margin setting is 34. (34 is off screen, but Wordwrap causes text to occupy 33 by briefly Windowing right. then left, when you type on 33 itself.)

You can turn off the column numbers (FCTN 0) to see six more columns of text (4 digits and 2 spaces) which lets you set the margins at 0 and 39. You can even set R at AO (which is off screen) so that Wordwrap will cause text to occupy 39; this makes a REAL AO column screen. Naturally, the R Tab can be reset any—time to Reformat to any desired margin width up to the on-screen maximum of 0-79.

79 COLUMN SCREEN I am sorry to break the news to you that you only have a 79 calumn screen, not the 60 column screen you thought you did! When in Wordwree the Editor does not let text occupy the column of the A mergin (on screen or when printed with the Editor). If you create text with Worderen on, the Editor alone cannot print 80 columns its extremes ere 0 and 79, and 79 is not printed on. The smithmetic is tricky because of the presence of the zero. If your Editor mergins are on 0 and 78 you can only print 80 column text IF your dot commends are set at 0 and 791 AND IF you use .FI; nor will on-screen equal output.

TI-WRITER TIPS #1 - by Bob Seddon -

EDITOR MARGINS VERSUS FORMATTER MARGINS

There are two kinds of margins in TI-Writer: Editor Tabs & Formatter Dot commands.

#### EDITOR TABS

When you create text with the Editor you use margins called Tabe. Tabe are set via CTRL c (PROMPTS), t (Tabs), Enter. This sequence of keystrokes makes the Tab Line appear across the top of the screen. You can type over the Default settings at 0 and 79 and reposition L and R to make on-screen tabs any width within that range.

PRINTING WITH THE EDITOR
You can print text created in
the Editor with the Editor itself by CTRL c (PROMPTS), f
(FILES), pf (Print File), Enter. This sequence of keystrukes prints text with margins equal to the tab settings;
the printer output resembles
the acreen.

However, there are advantages in NOT using this method to print. If you use the Formetter instead of the Editor you can print lines longer then 80 spaces. You can autometically number successive pages. You can put Headers at the top of each page, Footers at each bottom. You can make the R margin flush with the .FI;AO command. You might want to use the Ampersand to underline, the Each to Print Bold. You can double space and set page length.

PRINTING WITH THE FORMATTER To print through the Formatter you must Save the file, Exit the Editor, Load the Formatter, reload the file, and then print. The Formatter prints the file according to the Oot Command instructions.

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