

Bayou 99 Users Group, P.O. Box 921, Lake Charles, La. 70602

# BAYOU BYTE



Price One Dollar

Distribution: 250 copies

## \*\*\*\*\* MEETING NOTICE \*\*\*\*\*

The next meeting is **FEB. 17** at 7PM in NELSON ELEMENTARY on Country Club Rd. We will have a lot of new things to discuss. The answers to the "TEST" (found elsewhere in this newsletter) will be available at the meeting. Come out and contribute to the exchange of ideas and friendship.

### THE TALKING HEAD by John Singleton

This issue is a little different in that we have three full page "ads". In an effort to be democratic, both the MYARC 640K Ram Model 9640 "TI" computer and the TRITON Turbo XT "IBM" compatible computer have been given each a page. No bias is given. Just as each member has different needs and uses for his TI 99/4A, so will he be able to find features more to his liking in one or the other of these two fine but different machines.

Roger Hickerson, R&H Associates, has ordered one of these new computers (no, I won't say which one!) and is certain to be submitting an article reviewing the features as soon as he gets it and has a chance to check it out. If you have any questions about either computer, there are phone numbers and addresses listed for each.

The third "ad" comes from north of the border--- Canada from RYTE DATA Millennium Computers. This fine company is another that keeps your TI 99/4A alive and healthy.

So look over these offerings and find yourself amazed at the number of things that are NEW for your "DEAD" computer! There certainly must be something special about the 99/4A and the ones who use it. How many new products or programs have you seen offered for the discontinued other brands of computers? Well?

At last month's meeting, I distributed many of the newsletters from the other UG's we exchange with. I requested each member to look through them and "high light" any articles or programs THEY found of interest. These will be used in future issues of the BYTE. The main purpose of this is to get other viewpoints and interests in your newsletter. I don't think that everything that interests me will interest you. As we go along, if you have

anything you want to contribute or would like to see, just let us know!

Elsewhere in this issue is a TEST. Whoa! Don't jump to conclusions! Try it; you'll like it! This "test" is based upon certain numbers that you have been exposed to all your life. You don't realize how much you absorb as you go through life. Make a fun thing out of this test. Try it on your own first. For those who can't figure out all the numbers, I'll have the answers at the meeting but I'm sure everyone will have already completed it. ENJOY!!

## MONTHLY MEETING MINUTES by SONNY HOFFPAUIR

This the first meeting for the year 1987, was held on January 20, and was called to order by John Singelton, newly elected President, at 7:00 P.M. in the A.A. NELSON ELEMENTARY SCHOOL on COUNTRY CLUB ROAD.

1. The NEWLY ELECTED OFFICERS ARE:

PRESIDENT:	JOHN SINGELTON
VICE PRESIDENT:	RICHARD MITCHELL
SECRETARY:	SONNY HOFFPAUIR
TREASURER:	ROGER HICKERSON

2. A new meeting place was discussed. The school board is short of money and we may have to move out of the schools. Cost of insurance and electricity are the main concerns. We need to be looking around for another meeting place. Recreation Centers are being looked into. Henry Heights was one place mentioned. If any member that was not at the meeting but knows of a place that we might be able to have for our meeting, please contact NOEL MOSS (477-3127).

3. A special "OUT OF TOWNER" user group meeting was discussed. This would be one that could be held on weekends. A discussion was held about maybe setting it up quarterly. Roger said he would put it on the TIBBS bulletin board so the out of town people would know about it and could comment if they wished. A complete TI FAIRE was also discussed including getting vendors in or at least sending Video Tapes and make a two day affair of it. Further information or suggestions should be brought to Roger's or Richard's attention.

4. John talked about how the Houston User group uses the "NEXT STEP" approach in some of their meetings. Each person is somewhere in his use of his computer, and this will give everyone a chance to advance with the help of others in the group that are already ahead in some cases.

5. John also asked for any advice and help on what the members would like to have covered at the meetings. We have tried many different approaches but nothing seems to work for ALL members and non-members. We need more members; ACTIVE members to attend the meetings and help out in anyway they can. We know everyone

is busy with other clubs and different things but, any help will be greatly appreciated.

6. Pete Still had a new disk of the month and also has copies of the last two months if anyone is interested. Pete is the Library Chairman and you can contact him for these programs. However, if you purchase the DOM at the meeting, you will get a discount on your purchase! Just one more good reason to come to the meetings.

7. Richard Mitchell talked about the new "TI Compatable" TURBO XT COMPUTER that is being sold by Triton. (Additional details on it and Myarc's new computer elsewhere in this issue-ED.) Comes with 256K/incl. diagnostics, expandable to 640K. Operates at 4.77MHz/8 MHz with 8088 microprocessor, 8 expansion slots, with bridge box that connects to your TI-4A, plus video card, one disk drive DSDD, printer connection, one year warranty, all for \$499 plus \$19.90 shipping charge. To expand from 256K to 640K is \$89.00 more. (Triton phone No. 1-800-227-6900. Monday thru Friday 6A.M. to 6 P.M., Sat. 9 A.M. to 4 P.M.) Triton should start shipping on March 1, 1987.

8. Richard Mitchell will also be the distributor for MG Explorer. Documentation is on disk. Program will not be copy protected. (Inquiries should be sent c/o BYTE MASTER Computer Services, 171 Mustang St., Sulphur, LA 70663)

9. Richard also mentioned that Quality 99 Software is having a sale.

10. Roger Hickerson has been using PILOT Language a little here lately and he talked about it some at this meeting. He will discuss more about it at future meetings so those that are interested plan to attend upcoming meetings.

11. The meeting ended at 9:00 P.M.

**\*\*\*\*\* TEST \*\*\*\*\***

This test does not measure your intelligence, your fluency with words, and certainly not your mathematical ability! It will, however, give you some gauge of your mental creativity and flexibility. Those who do best on this test, will generally be the type of person that can see relationships but are also able to readily switch one train of thought to another. This test was developed over about a three year period with the "average" person only able to answer about 1/2 of the problems on their first try. Try your hand at it! (First time on your own... then with help, if you really can't do any more.) Sleep on it first before you give up. You'll be amazed how a fresh start will help you see things you overlooked the first time around.

**INSTRUCTIONS:** Each problem contains the initials of words that will describe the given number.

**EXAMPLE:** 60 = S. in a M. would be 60 = S econds in a M inute!

- a) 26 = L. of the A. \_\_\_\_\_
- b) 7 = W. of the A.W. \_\_\_\_\_
- c) 1001 = A.N. \_\_\_\_\_
- d) 12 = S. of the Z. \_\_\_\_\_

- e) 54 = C. in a D. (with the J.) \_\_\_\_\_
- f) 9 = F            he S.S. \_\_\_\_\_
- g) 88 = \_\_\_\_\_
- h) 13 = S. on the A.F. \_\_\_\_\_
- i) 32 = D.F. at which W.F. \_\_\_\_\_
- j) 18 = H. on a G.C. \_\_\_\_\_
- k) 90 = D. in a R.A. \_\_\_\_\_
- l) 200 = D. for P.G. in M. \_\_\_\_\_
- m) 8 = S. on a S.S. \_\_\_\_\_
- n) 3 = B.M. (S.H.T.R. ! ) \_\_\_\_\_
- o) 4 = Q. in a G. \_\_\_\_\_
- p) 24 = H. in a D. \_\_\_\_\_
- q) 1 = W. on a U. \_\_\_\_\_
- r) 5 = D. in a Z.C. \_\_\_\_\_
- s) 57 = H.V. \_\_\_\_\_
- t) 11 = P. on a F.T. \_\_\_\_\_
- u) 1000 = W. that a P. is W. \_\_\_\_\_
- v) 29 = D. in F. in a L.Y. \_\_\_\_\_
- w) 64 = S. on a C. \_\_\_\_\_
- x) 40 = D. and N. of the G.F. \_\_\_\_\_

\*\*\*\*\* FAIRWARE \*\*\*\*\*  
 BAYOU 99 USERS GROUP

The following is a list of FAIRWARE in the Library at this time. If anyone has any other FAIRWARE not shown and would like to put it in the library; it would be greatly appreciated. If anyone wants a program from the Library please let any officer know.

1. M5/MASSCOPY--Version 3.24--Steve Lawless ( 2514 Maple Ave., Wilmington, Delaware 19808 ) Here's a super nice copying program.. This program gives you the option to make 2 copies at the same time if you have 3 drives. If you have the foundation 128K memory card, it will load info. onto it to make copying even quicker. It even offers 2 modes of copy, sector to sector, or Bit Map. This one's really nice for multiple copying. Loads with E/A option 3. (\$10.00)
2. L1/SCREENDUMP--Danny Michaels ( Route 9, Box 460, Florence, Al. 35630 ) Another fine program by Danny

- Michael. This is one of the better screendump programs. This one will allow the user to dump a screen in one of 2 sizes. One also has the option to dump vertically or horizontally. Also included is an inverse dump feature. Screendump will work as part of your program or with an interrupt switch. As usual, Danny has included some well written docs. Loads with Xbasic or E/A.
3. KN/NEATLISTER--Danny Michael wrote this nifty little program. This program will list out all the variables in your program and tell you which line numbers they are found in. A very nice tool for the programmer. Loads with CALL INT :: CALL LOAD("DSK1.NEATLIST") All docs. are included.
  4. M1/DM1000 version 3.1-- (Ottawa T199UG) A very good disk manager program by Bruce Caron. This program is on the order of the Corcomp DM. DM1000 has all the features a DM should have plus more. Version 3.1 was modified by Ralph Romans and allows running Program Image Xbasic VDP and E/A VDP Files. Load with E/A option 5 or from XB RUN "DSK1.LOAD".
  5. IO/A/L UTILITY DISK--By Art Green of the Ottawa T1-99/4A UG. Contains 5 assembly language utilities including 3 disk utilities, a terminal emulator and a printer set-up for dumping PrintArt files to you printer.
  6. LI/FASTERM--Communications software by Paul Charlton ( 1110 PINE HURST CT., CHARLOTTESVILLE, VIRGINIA, 22901 ) Features Xmodem, TE2 and Xon-Xoff transfers. Program allows user to change baud rate (110-19,200),duplex, parity and catalog drive. This is one of the best terminal programs around. Docs are included. Loads with E/A option 5.
  7. KI/DIRECTOR version 4.1, DISK LABELER--RON BUTLEDGE ( 1020 3rd St., Waukeg, IA 50363 ) 2 nicely written programs by Ron . Both are Fairware and combine to make a super program. Director was designed to keep track of disks and disk files. This program generates a list of catalogs 3 in a row across a page. Features ADD, DELETE, SEARCH. Disk labeler can work in conjunction with Director to make labels from your disks or used separately to make individual labels. Auto loads in Xbasic.
  8. KQ/PBASE--WILLIAM WARREN ( 2373 Ironton St., Aurora, CO., 80010 ) A disk based fast access management system by William Warren. With it you may design your own data screens. build up to 5 customized tabular report formats or customized mailing labels. Includes extensive documentation. Xbasic.
  9. IF/FUNLWRITER--Funnelweb Farm ( Tony Will McGovern, 215 Grinsell St., Kotara, NSW 2289 AUSTRALIA ) Version 3.3. I have tried this one, use it all the time and it will do everything TI-WRITER will do. plus more! And it uses Extended Basic rather than the TI-WRITER cartridge. This one contains DM1000, E/A, c99 Compiler and others. Program auto-loads in Xbasic.
  10. KN-KN/CREATIVE FILING SYSTEM-- Version 5.0. Mark Beck ( 166 Delaware Circle, Jacksonville, AR 72076 ) This is an excellent data-base program, and his user group is using it as a fund-raiser.
  11. JP/J.P. GRAPHICS-- Version 3.1 By Jean-Pierre Morin ( 25 Arnprior, ONT CANADA K7S1W7 ) A TI Forth drawing program written by J.P. Morin. This version has music and a demo. Docs. are included to explain all the nice features this program contains. Color changes, lines, circles, load and save to disk, dump to printer are a few of the features this program offers. And because it's written in Forth, it runs very fast. One word of warning, this version comes on 1 DS/SD disk only. Auto-loads with Xbasic.
  12. IG/C99 COMPILER--Clint Pulley ( 38 Townsend Ave., Burlington ONT L7T1Y6 Canada ) Small "c" by Clint Pulley. One of the newest languages out for the TI. c99 is a compiler that creates assembly source code. Once these codes are assembled into object code, you have a program that runs about 2.5 times Faster then Forth. c99 loads with E/A option 3.
  13. KK/DISK MASTER version 1.6. A great DM program written by Todd Kaplan. Todd's program features options like protecting and unprotecting an entire disk, copying all or just a few files from a disk, color changes and the ability to recover a deleted file. Loads with E/A option 5.
  14. IU/STAR Version 1.0 By Michael Riccio ( COM-LINK Enterprises, 953 Fillmore St., Phillidelphia, PA 19124 ) STAR is a package containing 53 TMS9900 assembly language routines to be used in conjunction with your TI

\*\*\*\*\* TINYGRAMS \*\*\*\*\*  
By JMS

For some time now, I've been following Mike Stanfill's interesting pursute of a unique concept. Mike is the creator of a program format he calls "TINYGRAMS". This program format has only one rule: The program must not exceed 24 screen lines in length. i.e. When "listed" the entire program does not scroll off the screen. (Title and/or remark lines not included.) Mike's main purpose is to try to get you to think about writing compact and efficient code. If you can make a simple program that short then when you do more complex programs, you can still apply the same thought process.

Jim Peterson (Tips From The Tigercub) is another master of short and consise code. He has written many "TINYGRAMS", many as merge type subroutines. He also has done many "One Liners", programs that run and are only "one" line long.

Mike writes for and is a member of the DALLAS TI HOME COMPUTER GROUP. His articles appear in their fine newsletter "DALLAS 99 INTERFACE". The following two "Tinygrams" are from the October 1986 issue. If you plan to type in these programs, there is one very important "trick" you'll need to know: A normal XB program line is only 4 screen lines long. When you reach this point, you can't enter any more characters. However, you will notice that atleast one program line in each of these 2 programs is longer than 4 screen lines! Ah yes, the "trick"! After you have gone as far as the computer will allow you, press <ENTER>. Now do a <FUNCTION 8> (REDO) and the line is relisted. Using <FUNCTION D> (RIGHT ARROW), move the cursor to the end of the program line and continue entering the rest of the line. Press <ENTER>. When you go back and list the program, you will find that indeed the program line exists >4 screen lines long! Jim Peterson uses this "trick" often in his "ONE LINE" programs. (You'll find some in past issues of his "TIPS" )

If you enjoy these and would like to see more, let me know or better yet make your own "TINYGRAM" or "ONE LINER" and submit it for publication in the BAYOU BYTE.

The Tinygram "TINYCAT" is a program for listing disk files and programs from any disk drive 1-4, including your RAM disk if it is designated as one of the four drives.

The Tinygram "CAMEL" is a game based upon the old saying "The straw that broke the camel's back".

```

1 !*****TINYCAT*****
  *****A TINYGRAM*****
  ****BY JOHN GUION*****
  *****

```

```

2 T$(1)="Dis/Fix" :: T$(2)="
Dis/Var" :: T$(3)="Int/Fix"
:: T$(4)="Int/Var" :: T$(5)=
"Program" :: DISPLAY ERASE A
LL:"Disk? (1-4)"

```

```

3 J=J-1 :: CALL HCHAR(23,15,
30+(J=0)*-19):: CALL KEY(0,N
,S):: IF N=13 THEN N=49 ELSE
IF N<49 OR N>52 THEN 3

```

```

4 CALL HCHAR(23,15,N):: OPEN
#1:"DSK"&CHR$(N)&".", INPUT
, RELATIVE, INTERNAL :: IN PUT
#1:A$,J,J,N :: PRINT "Diskna
me=";A$:"Available=";N;" Use
d=";J-N:"Filename^^S ize^^Ty
pe^^^P":RPT$("-",28)

```

```

5 INPUT #1:A$,I,J,N :: IF A$
="" THEN STOP ELSE PRINT :A$
;TAB(11);J;TAB(17);T$(AB S(I)
);:: IF ABS(I)<>5 THEN PRINT N;

```

```

6 IF I>0 THEN 5 ELSE PRINT T
AB(28);"Y"::: GOTO 5

```

```

1 !*****CAMEL*****
  *****A TINYGRAM*****
  ***BY MIKE STANFILL**
  *****

```

```

2 CALL CLEAR :: Q$="55767671
353235" :: K=-1 :: CALL COLOR
(10,16,7,2,11,11):: B,Q =0

```

```

3 P=2 :: W=INT(RND*20+9):: F
OR T=1 TO 7 :: CALL VCHAR(VA
L(SEG$(Q$,T,1))+5,T+12,4 2,VA
L(SEG$(Q$,T+7,1)))::: NEXT T
:: FOR X=1 TO 7 :: FOR Y=15
TO 19 :: CALL SOUND( 1,-5,0)

```

```

4 IF Q=0 THEN P=P+K :: K=-K

```

```

5 Z=11-X :: IF Q=0 THEN DISP
LAY AT(20,2):"GUESS?":#1=";
R(1):"#2=";R(2):: ACCEPT AT(
20+P,8)SIZE(1)BEEP VALIDATE(
"123456789"):Q

```

```

6 F=P+K :: B=B+1 :: CALL HCH
AR(Z,Y,111):: IF B>W THEN 8

```

```

7 Q=Q-1 :: NEXT Y :: NEXT X

```

```

8 DISPLAY AT(18,2):"#";F;"WI
NS!" :: R(F)=R(F)+1 :: FOR J
=5 TO 10 :: CALL HCHAR(J ,15,
32,5):: CALL SOUND(599,440-1
0*J,0):: CALL HCHAR(21-J,15,
111,5):: NEXT J :: GOTO 2

```

### WANTED:

RS232 Card for PE Box installation, any brand. Willing to pay \$50.

Cartridges as follows:

- 1) Meteor Multiplication
- 2) Demolition Division
- 3) Numeration II
- 4) Touch Typing Tutor
- 5) Pole Position
- 6) Spelling Space Wars

If you have any of these, advise which ones and your asking price

Contact: John Singleton, 404 Bagdad Rd., Westlake, LA 70669.

BAYOU 99 USER GROUP TIBBS  
Roger Hickerson SYSOP

If you haven't been on the TIBBS lately, you should do so. One very good reason is that you will be deleted if you don't get on occasionally but in addition, there's always something new on the board. As an enticement, the current DOWNLOAD catalog is listed below. The contents change often as other programs are UPLOADED or new ones put on by the SYSOP. CALL TODAY! (Leave a message while you're on or leave several.) Another interesting section of the TIBBS is the current user list. I'll not list them in the newsletter because of length and privacy reasons but you can check it out while you're on.

TIBBS FILE TRANSFERS

: : : : :  
: : : : :  
: : : : :  
: : : : :  
: : : : :  
: : : : :

(X-MODEM PROTOCOL)

The files listed below can be downloaded only by X-Modem protocol.

Barry Traver's program ARCHIVER has been used to combine multiple file programs, so they may be downloaded together. All compacted files have the ending "/AR" and will require you to use ARCHIVER to separate the D/L file into the separate files in the programs.

NAME            DESCRIPTION

- ARCHIVER-- Fairware from Barry Traver to pack files together for fast transfers and then unpack when the file is copied.
- BOWLING--- Uploaded by LARRY NOXNORTH, the release and roll of your ball is controlled with the arrow keys. Your score is maintained as you play.
- STARTREK-- Uploaded by MIKE HOLLENBECK for any of our RADIO SHACK users.
- LTERM/CMD- Another from MIKE for the RADIO SHACK user. I don't have any descriptions on this one.
- 80MERGE--- Use TI-Writer to edit your program, then convert it to Merge format to load, run, and save in program format.
- DEANPOKER- A fun game which you can keep score with your winnings.
- FIGHTER---Uploaded by Jeff Pitman, this program is for the ATARI users.
- FINANCES--Calculate the interest and the principal amount for installment payments. Also, figure interest paid on savings.
- LOONEY---Uploaded by Brett Fragerness, this "Looneytunes" version will have you waiting for the cartoon feature to begin...Starring Bugs Bunny
- SIDEPRIINT-This program will send the necessary codes to your printer to print sideways when using MULTIPLAN.
- MONOP/AR--A version of the famous Parker Bros. game, draws the playing board on the screen. The computer serves as the banker. Includes an "M" file which is required for this game.
- MOREMUSIC-Invention by Bach.
- NAME-LIST-Address file and mail labels.
- SPACEMAZE-Maze game ordinary but fun.
- YDPUTIL2--Save this program in merge format to be merged with your Basic program. The Basic program will then run in Ext.Basic. By John Behnke, modified to run with the CorComp disk controller by Roger Hickerson.
- OTHELLO---Uploaded by Michael Smith, for the ATARI users.
- HITECH----This is a TEXT file uploaded by Dale LeDoux, SysOp of the Weekend Warrior BBS. Humorous definitions.
- CONVET128-X-modem file transfers from other than the 99/4A computer are saved in D/F 128 files. Use this



program to convert to a D/V 80 file for reading w/ TI-Writer or E/A.  
CONVERT---Convert files from one format to another. Read any file in Display format and containing ASCII text.  
MENGEN----Menu and Graphics display generator. Converts your screens to A/L for FAST display.  
DISKO/AR--One of several excellent disk read/write programs. Includes DISKO/DOC for instructions to get the most utility from this program.  
FINDIT----Find a string in any of 2 hundred records, FAST.  
SORTIT----Sorting is usually a slow process, until you use this program.  
MULTIPLIB-A simple algorithm allows you to show amazing multiplication skills without calculator or computer. Program explains method and practice.  
MASS/AR---Vers.3.24, This is a FREEMWARE offering from STEVE LAWLESS, 2514 Maple Ave., Wilmington, Delaware. Send your contribution promptly for this excellent disk cloner, which features the ability to copy to two drives at once. This file contains all subprograms and documentation files.  
RAW/O-----A powerful sector read/write utility with many uses. As with any of the sector writers, use with a backup disk only.  
RAW/INFO--This is the documentation for the RAW/O utility program.  
DISKEDIT--Program to edit disks. Used with the RAW/O program. Download the INFO file for this programs docs. Pgm by Calvin Odum  
ICECASTLE-Music program uploaded by Jeffery Schall  
ELER3/AR--ELEREV3 program and documentation to display and print the photo quality pictures produced for this program.  
MENGEN/UT-Menu and graphics display utility. Converts display screens into A/L for fast display.  
COLBERT---ELE picture to be printed with the ELER3 file above.  
FLIGHT/AR-Flight simulator program with visual and instrument capabilities for simulating an airport night landing.  
LIB/AR----This is a must disk library catalog program for the larger disk Library.  
AXELF-----Enjoy the musical theme from Beverly Hills Cop.

End of file

(TE-2 PROTOCOL)

The following titles can be downloaded using the TE-2 or TE-1200 terminal emulator only.

Filenames ending in "/AR" have been compacted with Barry Traver's ARCHIVER program and include ALL files required to use the program. There are no more files to D/L, but ARCHIVER will be required to unpack the program before it can be run.

FASTRM/AR-Vers. 1.16 of Paul Charlton's FAST-TERM program, perhaps the best terminal emulator program written for a home computer. The programs listed will permit you to run the program. After trying the program please send Paul Charlton a minimum of the amount requested in the boot up message and disk(s) with 700 sectors formatted for the complete program and documentation.

End of file

NEW FROM MONTY SCHMIDT: **GPL LINKER V1.1 RunTimeVersion**

now \$49.95  
w/Linker \$59.95  
plus Intern \$69.95  
add \$3 shipping

GPL Linker is an ingenious program that places the power of Graphics Language Programming (GPL) at your command. No extra hardware is required beyond standard 32k and disk system. In short, Linker creates runnable program files from compressed (or uncompressed) GPL Assembler object files. You can then run these programs with "Option 5 Run Program Files" of the Editor Assembler Module. Up to 24k GPL programs can be developed and run on standard 32k systems. Included in the run time version are two demonstration programs and "CONVERT," a public domain conversion program that converts MS BASIC statements to TI BASIC statements. Price: \$21.00 CDN funds \$15.00 US funds.

# GPL price Reduction

## ENHANCED GPL Assembler V2.1

**NOW with high memory loader package**  
UNLOCK ALL THE SECRETS! New GPL Assembler Version 2.1 available exclusively through RYTE Data.

This package includes the GPL Assembler disk, printed documentation, GPL tips and hints, update support service and commented GROM/ROM listings (with the book "INTERN"). An example for a command module type GPL program is included with source, object and list files on disk. Requires: 32k memory, disk drive(s), TI Editor Assembler package. Printer/RS-232 recommended.

This program provides the power to write, edit and assemble true GPL programs for the TI 99/4A. Create code that accesses console operating system routines directly. Develop programs that use the GPL Interpreter and all the features of the TI 99/4A.

## R/D COMPUTING Technical Newsletter

with Bill Gronoc on assembly!  
We have a vision. Our vision is one of continued TI 99/4A support. We're dedicated to the power of the machine. From the novice to the experienced computer user; for management, home, education, entertainment or advanced applications our publication "R/D COMPUTING" is for you. TI never revealed all the important inner workings of the 99/4A. We bring you this vital information every month.

A major feature of R/D COMPUTING is the regular "upgrade projects." These electronic construction projects are designed to give the 99/4A owners more features and improvements. For example, it is possible to increase the speed of your computer with a very simple part and switch. Each month we present new circuits, diagrams and projects for your computer.

From the moment your new subscription arrives at your home, you will have access to critical technical information that makes your computer more valuable, powerful and versatile.

We believe that the TI 99/4A deserves new products, innovative hardware, software, information and a dedicated technical publication. This is what makes a computer "viable" in the fast paced microcomputer industry. Now that the 99/4A has been "opened up," all the secret information is available. You can have all these benefits and more each month. **SUBSCRIBE NOW!**

**\$14/year - back issues 3-15 available**

THANK YOU! Our business has grown 300% this year. To show our appreciation we are giving away hundreds of dollars in TI products to 99/4A owners or users groups. To enter drawing, (no purchase necessary) send your name and address on a postcard to RYTE Data. For subscribers to R/D Computing we are giving away XBII plus, 32k memories, GPL Assembler package, etc. **Enter your subscription today!**

Prices listed in U.S. funds.

New catalogue available.



Designed for the CorComp Clock Peripheral—Triple Tech Card or Stand-alone models. This utility package provides more functions for use in your Extended Basic programs. Direct access to the clock ROM at assembly speed gives you these features: three independent timers to set and read; alarm function; two interrupt routines to display time and date on screen with CTRL T—continuously or on your command; all time and date displays are in 12 or 24 hour format using TEXT. This program also allows the week, date and time to be set independently rather than all together.

Program disk is not copy protected to allow you full use in your Extended Basic programs. Package includes disk and instructions. Only \$17.95 plus \$2 shipping.


## XBII plus

Totally compatible with TI's XB, this enhanced version gives your programs more power to access your 99/4A. Commands such as MLOAD, MSAVE, VPEEK, VPOKE, GPEEK are superior to most other Basic environments. Various demo programs and new applications using high resolution graphics make this module a "must" for Extended Basic users. Comes complete with a 95 page manual. Requires console and 32k. \$75.00 (US) plus \$2 shipping.

## BASIC Compiler V1.1

New Basic Compiler that is finally easy to use! Supports virtually all Basic and Extended Basic commands in existing programs. Simply load and compile programs from a menu driven directory on your screen. No extensive re-writing, variable declarations or conversions are required. Compiler produces code-list in one pass containing all variable addresses and jump list. Package includes Extended Basic Loader, Floating Point Loader, Integer Loader, Disk Menu program and DSR program for the Compiler support. This Compiler cannot unravel DEF statements and stops on the END statement—no SUB's allowed. TRACE, BREAK, ON ERROR, CALL LOAD and CALL LINK may produce execution errors. Requires 32k, disk. Price: \$20.00 plus \$2 shipping (US funds).

**Ryte Data** (705) 457-2774



MILLENNIUM COMPUTERS  
210 MOUNTAIN STREET,  
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ANNOUNCING MYARC'S 640K RAM

# GENEVE t.m.

## MODEL 9640 FAMILY COMPUTER

This unit is without a doubt the most sophisticated machine ever offered in the family and small business area to date. With over a year of design and development, including input from more than one hundred users, this machine has surpassed even our own expectations. Take a moment to review some of the many features that place this computer in a class of its own.

• **99/4(A) COMPATIBLE**  
**RUNS OVER 100 EXISTING**  
**TI CARTRIDGE PROGRAMS**

• **TI-WRITER NOW A FULL**  
**80 COLUMNS**

• **99/4(A) COMPATIBLE**  
**RUNS OVER 95% OF ALL**  
**ASSEMBLY LANGUAGE**  
**PROGRAMS & UTILITIES**

• **MULTIPLAN ALSO 80 COLUMNS**

### LARGER

Standard 640K RAM  
2 MEGABYTES Addressable RAM  
MYARC Memory Card Compatible  
With MYARC 512K Card,  
Supplies 1.1 MEGABYTES RAM

**IBM TYPE KEYBOARD** Included

### FASTER

At Least 2 - 3 Times

### PHONE TYPE CABLE

Replaces Old Hex Bus Cable

### MOUSE SUPPORT

\*\*\*\*\*

- Separated Function Keys
- Incredible Graphics Capabilities
- Basic 3.0
- Composite Video Output
- RGB Output
- 128K VDP RAM Memory

- 40 Column Display
- 80 Column Display
- Mouse Output Port
- Joystick Port
- Sound Compatible & Expandable
- Speech Included

- Compatible with Existing Peripheral Cards\*  
Disk Controllers\* (MYARC, TI, Corcomp)  
RS232 Cards\* (MYARC, TI, Corcomp)  
MYARC Memory Expansion Cards Add Directly to RAM (modification required)
- True Hardware Utilities  
Sprites, Fills, Lines, Data Moves
- TI 9995 Processor Chip - 12 MHz  
256 Bytes ULTRA High Speed on Chip RAM  
Pre-fetch on Instructions  
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- More RAM Memory than any machine in its price class



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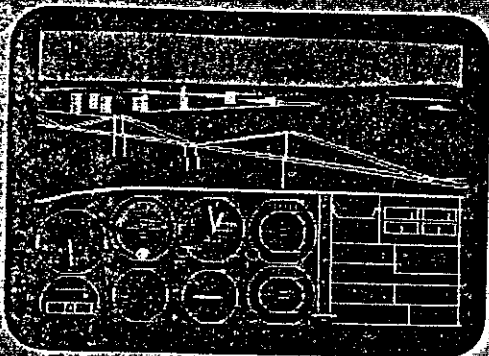
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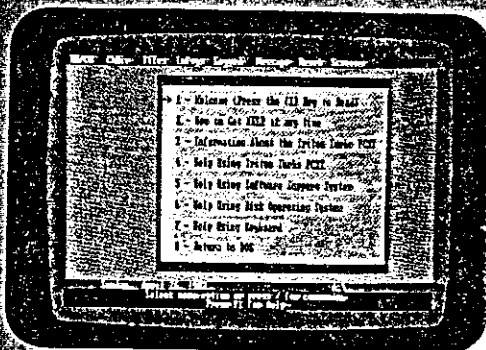
# A PICTURE IS WORTH A THOUSAND COMMANDS!

## COMPARE THE DIFFERENCE THE TRITON TURBO XT PERSONAL COMPUTER MAKES

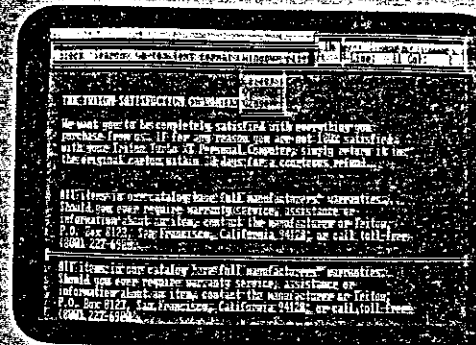
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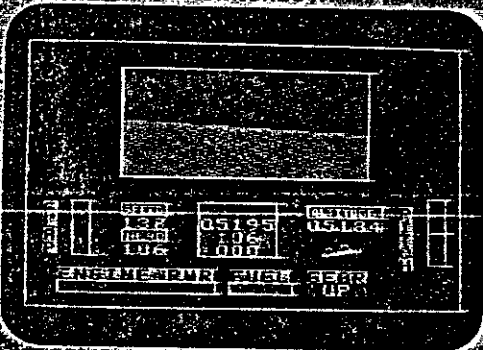
MAIN MENU



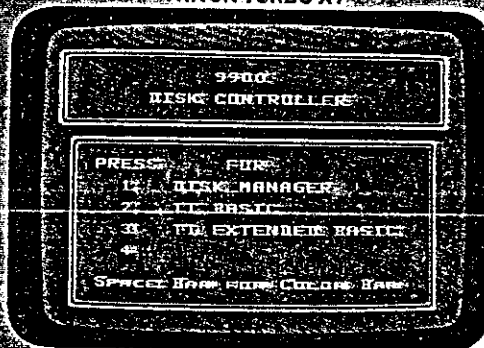
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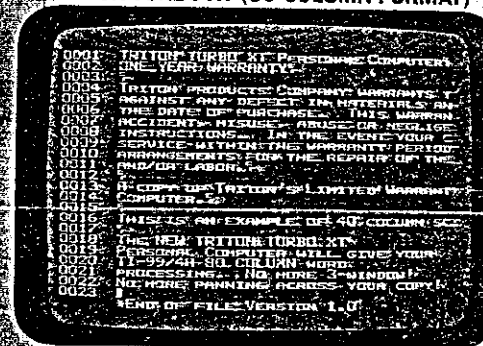
TRITON TURBO XT



TRITON TURBO XT



TRITON TURBO XT (80-COLUMN FORMAT)



TI-99/4A

TI-99/4A

TI-99/4A (40-COLUMN FORMAT)

### SPECIFICATIONS

#### TRITON TURBO XT Personal Computer

**MICROPROCESSOR:** Intel 8088, 8/4.77 MHz clock speed (software selectable).

**OPERATING SYSTEM:** MicroSoft® Disk Operating System (MS-DOS).

**MEMORY:** 256K RAM (Expandable to 640K).

**DISK DRIVE:** One 5 1/4" double-sided, double-density, 360K thin-line mini-floppy, 48 tracks per inch.

**VIDEO:** RGB/composite color graphics display adapter.

**INTERNAL EXPANSION:** Eight standard user-accessible IBM PC card slots.

**EXTERNAL CONNECTIONS:** Standard parallel printer port, composite video, RGB, AC outlet.

**POWER:** 120VAC, 50-60 Hz.

#### BRIDGE BOX

**4A MODE:** Common video out, 99/4A video in.

**XT MODE:** Keyboard out, video in, XT Video in. Selectable power-up mode callable from TI BASIC or Extended BASIC. Concurrent processing. Five LED status display.

### TRITON GUARANTEES THAT YOU'LL BE SATISFIED. WE HAVE OUR NAME ON IT.

Hundreds of thousands of satisfied TI-99/4A owners have found Triton the best source for peripherals, software and helpful advice. We back every purchase with our toll-free Help Line. It's very important that you have support. Should you ever encounter a problem with anything you purchase from Triton, our friendly and knowledgeable operators can usually sort things out right over the phone.

### THE TRITON MONEY BACK GUARANTEE

We want you to be completely satisfied with everything you purchase from us. If for any reason you are not 100% satisfied with your TRITON TURBO XT Personal Computer, simply return it in the original carton within 30 days for a courteous refund.

### THREE YEAR EXTENDED WARRANTY

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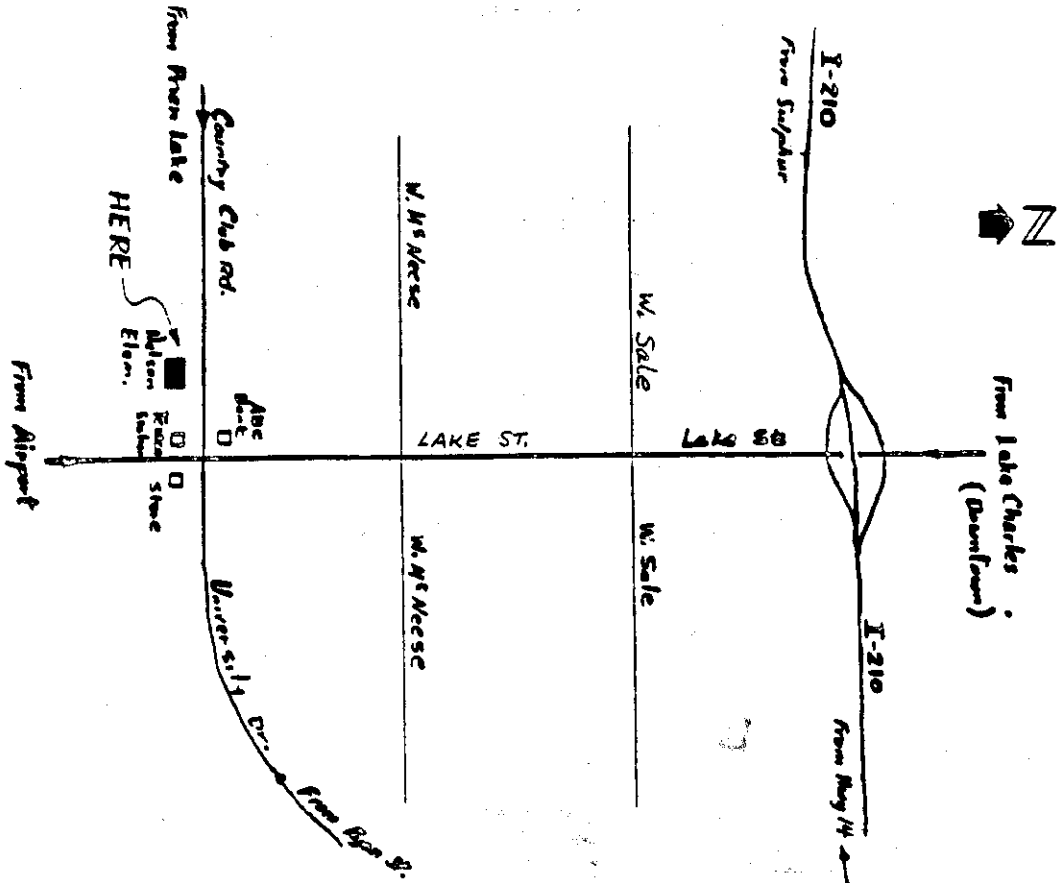
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