

# CALL DEWSLETTER

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1985

Atlanta, Georgia

#### PRESIDENTS CORNER

#### 'RIIVED REWARE'

There is no doubt that some great buys are to be had through the mail. Quick action taken on information overheard or passed on from the rumour mill has indeed lead to some once in a lifetime deals. On the other side of the coin however, beware of the scams and frauds that abound.

Our club received a letter about a 'gentleman' up north who was asking that everybody donate equipment to him so he could start a museum dedicated to preserving the existance of the TI 99/4A. It was his intention to 'display' all this equipment and would greatly appreciate help in this endeavor by having many people just give him consoles, printers, P Boxes, etc.

Sometimes I wonder whether people are out to pull a fast one or are just not right in the head.

need.
Remember AJ International advertising in the 99'er a couple of years ago? Did anybody ever send them money for an RS232 or 32K memory. Did anybody ever get any equipment? Have you seen or heard of them since?

One of the problems we face as User's Groups is the existence of Assistance Groups or International Users groups that are not that at all but really businesses that publicize 'assistance' but are just out to make a buck. Nothing wrong with forming a company to make a profit, just be honest about your intentions without misleading everyone. Such misrepresentation makes it harder for the legitimate user's groups. To quote G.b.Romano, "The more intergalactic the name the likelier it is to be a scam."

Ryte Data sent letters to many User's Groups about their mission to gather public opinion about the making of a new 99/4A compatible 'super computer'. For only \$6 they would send you 'updates' on the progress of this computer's development. Many groups published this in their newsletters only to find out later that the computer described was indeed being developed by a particular company but the President of this company had never heard of Ryte Data or their fact finding mission.

I could continue with many more dubious enterprises but a lot is unsubstatiated suspicions and hearsay. Instead I'll say if you have evidence or worries about the validity of any companies or advertisements then voice them to either your own User's Group or BBS system, or be prepared to get taken.

Gary Matthews

#### MINUTES - MAY MEETING

A Thanks to all those brave souls who managed to slip by the tanks and men in Army uniforms to attend the May meeting. They were filming a movie outside the library and the normal entrances were roadblocked. We even heard that people were being told that the Public Library was closed. Also Thanks to Ed Banovats, Melvin Carter, Paul Hickey, and Walter Limehouse for doing some calling to the membership to let them know that special equipment was being demonstrated.

Associates of Information Boyd Cone new cartridge and disk demonstrated the operating system to be marketed for the 99/4A. This is compatible to Extended Basic but gives the computer commands capability far in excess to Extended Basic, especially in the graphics area. Also demonstrated was the new Myarc 128K Ramdisk (upgradable to 512K). A Personality card was passed around. This gives the 99/4A the ability to operate a hard disk drive. A new Hayes compatible 300/1200 modem under \$300 was also passed exound. Boyd also gave the club an update on the marketing date for the new 99 compatible computer.

After the demonstration, spontaneous applause followed.

At a previous meeting some of the Public Domain or Freeware was made available already copied onto diskettes. At this meeting almost 70 diskettes of various programs were pre-copied and available. Less than a dozen diskettes were still available after the neeting. Since the response was so favorable, this practice will continue.

SOME THINGS ARE TOO GOOD TO PASS UP SUCH AS THIS - 'PUNN' APRIL NEWSLETTER

#### A TERRIBLE LOSS by Cricket Raybern

We were saddened to learn recently of the death of one of our most valued members, Someone Else. Someone's passing created a vacancy that will be difficult to fill. Else had been with us almost since the club was formed, and during that time, Someone did far more than a normal person's share of the work. Whenever leadership was mentioned, this wonderful person was looked to for inspiration as well as results.

The was often said, "Someone Else can work with

It was often said, "Someone Else can work with that group or committee." Whenever there was a job to be done or a meeting to attend, one name was on everybody's list---"Let Someone Else do it".

Someone Else was a wonderful person sometimes appearing superhuman. But a person can only do so much. Were the truth known, everyone expected too much of Someone Else. Now Someone Else is gone, and we wonder what we are going to do.

Someone Else left a wonderful example to follow, but who is going to follow it? Who is going to do the things that Someone Else always did?

#### CALL NEWSLETER

CALL NEWSLETTER is the voice of the Atlanta 99/4A Computer Users Group. P.O.Box 19841, Atlanta, GA. 30325. It is published at least 10 times a year. The ASCUG is not affiliated with any commercial company or organization. CALL NEWSLETTER is published by and for the members of the A9CUG to enhance their knowledge of home computers. CALL NEWSLETTER is composed of articles written and/or donated by members of our group and from articles appearing in other home computer users' groups around the world. Opinions expressed by the authors do not necessarily represent those of the Officers or members of the A9CUG. Permission is hereby granted to any users group recieving our newsletter to reproduce any article appearing in this newsletter, unless the article is otherwise noted, provided credit is given to the author and CALL NEWSLETTER. The A9CUG freely exchanges newsletters with other groups around the country. If another club would like to receiver our newsletter but does not have one of their own to exchange; we will gladly sent it to them. We do ask that they send \$5 a year or 50 cents a newsletter to help cover costs. Membership is open to family and individuals who own or are interested in using and programming home computers. Membership includes copies of this newsletter as they are published, access to the meetings of the main group and sub groups, and the groups Public Domain Library. Annual dues are \$15.00.

#### MEETINGS

The dates and times for the meetings of the Atlanta 99/4A Computer User's Group is the third Sunday of the month at the downtown Atlanta Public Library (off Margaret Mitchell Square) at 3 p.m. Whether or not to hold meetings this summer is still being considered. For more information call a club officer or 231-0992.

<u>SOUTHSIDE</u> chapter meetings are held the first Sunday of the month at the Clayton County Recreation Center in Jonesboro, 101 Lake Jodeco Rd., meetings begin at 3 p.m. For more information call Francis Hauke at 461-7193.

<u>EASTSIDE</u> chapter holds regular meetings on the first Monday of every other month. For more information call Ralph Danson at Z9Z-34Z7.

Gary Natthews
233-3096
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Secretary/Treasurer

Billy Glass Program Chairman
961-9199
Paul Hickey Education/Reporter
961-9322

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EAST SIDE CHAPTER (ESCUG)

### CLUBSALIS Available at the Mestings

TI FORTH Members \$20 Non-mambers \$30 -- thru mail Members \$25 Non-members \$30 Diskettes \$1.50-\$2.00 Depending on brand Cassetes Tapes C-10, C-20, C-30 \$.90-\$1.10 Best of 99er Magazines as well as selected issues of Home Computer Magazine. The prepared diskettes are: \$3 Mm. \$4 Non-mem. 1 Line = a disk containing the following: (Some is FREEWARE- Please Support the Authors) SCREEN DUMP NEATLISTER Disko/MASSCOPY/TK-WRITER/Gothic Print/COMM99 TI-WRITER and MULTIPLAN Updates FORTH Source Code (2 single sided disks) Extended Basic FORTH TAX Forms & GA Sched.84(requires MULTIPLAN) ---Although for 84, can be modified for 85---TI Advanced Debugger TE3C - Advanced TE3 with source code SPRITE BUILDER - takes 2 single sided disks

The above diskettes are available through the sail at the same member/non-member cost.

BOTE: If you send us diskettes with return postage mailer there is no charge.

#### DISKO Public Domain available from the Club

DISKO is a program that runs on the Editor Assembler that will allow you to look at (as HEX or ASCII) and change any sector of a diskette. The menu that comes with the program is humorous. Only the first two choices are

I have it on good authority that the original DISKO that was submitted to TI was written by Guy Stefan Romano. The program as it first came from TI would allow you to address any sector on a double sided diskette (or single sided double density). However when stepping through the sectors in a forward direction there was a barrier in the program that would not let you go past 360 (the limit of a single sided single density diskette). Despite this 'barrier' it is still possible to address specically a sector up to 720 or step backwards if the starting sector was higher than 360.

Earl Hall posted a 'fix' on Compuserve to allow this barrier in the program to be removed. Dick Vandenburg wrote an article explaining how to implement the fix. Bob Willis implemented the fix for the club's copy of DISKO.

This article is largely copied from Dick Vandenberg.

Load the code file into the ED/ASSEMBLER Editor and go to record #97. The numbers following the 3rd 'B' tag should be >0167. Change these to >02CF (720 base 10) or >059F (1440 for you DS/DD folks). Then change the '7' tag (the 6th from the last non-blank character on that line) to an 'B' so that the checksum won't be checked.

Select the SAVE option of the Editor, respond N to the 'Variable -length?' prompt and save the file (as a different than the original!!!). You should now be able to load that file and access, through the PROCEED Forn. key, the entire disk.

To run DISKO use the third option from the Editor/Assembler module. After entering DEK1.DISKO for the file name, move down to the program name and enter START. DOCUMENTATION

Use the arrow keys to move around once you are in a sector. Ftcn: E,X,S,D.

Fton. 1 Displays Sector in HEX code

Ftcn. 2 Displays Sector as ASCII

Ftcn. 3 Exits the program Ftcn. 4 Moves back one Sector

Fton. 5 Restarts Main Menu

Ftcn. 6 Moves Forward one Sector Fton. B Rewrites the Sector to Disk.



#### A LITTLE BIT ABOUT COMMUNICATIONS

What can you may when you want to write about a topic, yet start out with a disclaimer. At the risk of sounding like I only know a little (it's true, and that little bit of knowledge was only recently acquired), I will push on. Have you ever wondered how you can hear and speak at the same time on the phone even though we just use two wires to connect our house phone to the pole. Have you ever notice? that the phones seem to have 4 wires ready to hook up even though we just use two? Do you hear folks use terms like dedicated or leased lines, full and half duplex, and wonder just what are the differences? The answers are simple so here goes.

We have all seen a drawing of that wavy line that folks call a SINE wave. Most everyone is familiar with the idea that the number of times that line cycles up and down relates to frequency. Frequency is described as cycles per second and is referred to as Hertz. A high pitched sound could have a frequency of 8000 cycles per second or 8000 Hertz (Hz). Two of these signals can be transmitted over the phone lines at different frequencies at the same time without interferring with each others message. This principle is what allows a two way simultaneous converstaion to occu: on the phone. This also refers to a term we use with modems and computers: Full Duplex. When two separate frequency bands are use: over a two wire line to provide Full Duple: operation, it is called FDM or frequency division multiplexing. Throw that term out to any computer hackers you might know and see if they know what you now know. So, Full duplex means transmissions in both

directions at the same time. Half duplex as you might guess means that you can transmit or receive but not both at the same time. A well known example of Half duplex would be a CB. A Dedicated or Leased line usually refers to a 4 wire phone hookup where 2 wires are for transmit and the other two are to receive. It also means that the line is already connected to a specified location. No dialing, just pick up the phone and there you are. These dedicated lines are also more secure against interference since they have been designated by the phone company as not available for other circuits. When you normally dial up someone don't take for granted that the connection goes to the other party by the most direct path. The call gets routed through whatever line is available at the time, even routed out of state and back just to make a local call.

Now isn't that more than you ever wanted to know about communications.

Gary Matthews

#### REPEATING MORHTWHILE TIPS

#### From Ed York of the CIN DAY Users Group:

Some of the speech that the is listed in the back of Extended Basic Manual (Appendix L) are phrases and not just single words. It is not well documented that the speech which the Synthesizer knows as phrases must be preceded and followed by a pound sign # before they can be properly spoken in Extended Basic. Examples of the proper command format are: CALL BAY(#WHAT WAS THAT#), CALL BAY(#READY TO START#), and CALL SAY(#THAT IS RIGHT#).

Here is a tip for Terminal Emulator II users from Mike Kelly, 4013 Honeycutt Street, San Diego, CA 92109, TIBBS phone 619-276-3173. If you are tired of the TE II screen colors, the next time you are ready to go on-line, enter all the default values and have your modem on, then type CTRL., SHIFT G, FCTN V, CTRL., SHIFT 9, SHIFT = and then choose a foreground and background color with;

† Black 'Cyan & Dk. Green "M. Green (M. Red - Magnta & Lt. Green ) Lt. Red . Grey & D. Blue \* D. Yellow / White \* D. Red + L.Yellow

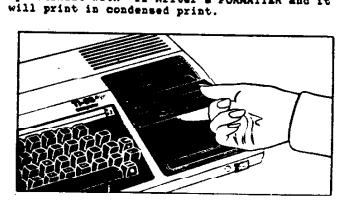
### MITT BY TENT SEE SEE

#### MULTIPLAN HINT From The Suncoast Beeper St. Petersburg, FL

If you use PIO with your printer, this should work to enable you to print your worksheet out in condensed print, or any way you want it. When your work sheet is done and you want a hard copy, type P then press the space bar once, then hit enter. Now, if you have your Multiplan main disk in drive 1, remove it. Place in drive 1 a disk you would like to have your worksheet on. Next type in the name you will give to your worksheet. Don't type DSK1. in front of the name. Press ENTER. Now the worksheet is on your disk in drive 1. Take the disk out if you have a one disk system. Load TI-Writer into your system now then bring up the Multiplan worksheet with the Editor in TI-Writer. You will see the first 7 lines of the worksheet as being empty. Hold down CTTL and press 0 to take you out of word wrap and place you in fixed mode. On the first line (where your cursor appears) type:

TL 92:27,15 then press ENTER. (This coding

.TL 92:27,15 then press ENTER. (This coding applies to EPSON compatible printers.)
You can now print out your Multiplan spreadsheet with TI-Writer's FORMATTER and it







#### From Barry Traver of the Philadelphia U. G.

A brain teamer, something you may have used but never fully understood. The answer is in the EXTENDED BASIC book, but subtle, ever so subtle.

LINPUT BUG

100 ! LINPUT PUZZLE/BUG by B.A. TRAVER

110 ! QUESTIONS? SEND SASE TO BARRY TRAVER

120 ! 552 SEVILLE ST. PHILA. PA 19128

130 CALL CLEAR 1: PRINT "LINPUT PUZZLE/BUG"

1 "BY BARRY TRAVER"

140 PRINT " Can you figure out why your
computer will not obey?"

150 PRINT "Why wen't it stop when you tell it
to?":;:

160 !

170 LINPUT "Want me to Stop? (YES/NO)":M\$

180 IF M\$="YES" THEN STOP ELSE 170

The Following Program was Distributed by Jim Peterson of TIGERCUB Software. It unfurls the U.S. flag (49 stars) in just 2 lines of Extended Basic:

NOTE: You must now edit line 100 by typing 100 followed by FTCN and X keys. The physical line is longer than the 5 lines allowed by EXTENDED BASIC so you must fool it by going to the last ')' and pressing FCTN and 2 (insert). Then add 20 so the line now reads CALL VCHAR(4,4,33,20) Note also that the 5 lines typed for line 100 now are spaced into the 6th line.

#### WHERE DOES THE CREDIT GO FOR THIS ONE

Those of you with Extended Basic may not know that the ACCEPT statement will accept up to 255 characters unedited characters (comma and quote marks are okay). It also is not screwed up by edge characters (as in LINPUT), and can be used in the Command mode. The restrictions are that the SIZE and AT options cannot be used, and the screen scrolls, just as it would with an INPUT command. A typical line would look like this:

Try it. It is very useful for text processing applications.

Reprinted from: MSP QQ NEWSLETTER (Minneapolis-St.Paul)

### Debugging the **SUPER-BUGGER**

By Dick Dunbar

As you may know by now if you acquired TI's Super-Bugger from the Program Library, MSP 99 the Super-Bugger has a bug. Perhaps more than one, but for now we'll concentrate on a specific bug.

you try to assign dump or disassembly output to a disk file, it results in all of the available space on the disk specified being the file, but no assigned to recoverable data is written to it. This is caused by the PAB being destroyed when the file is assigned There is a solution to to disk. problem. Ιt involves this modifying the object program file using the Editor/Assembler. given below applies uncompressed object files only.

As it happens, Navarone Industries is also distributing a version of this same debugger under the name Bug Fixer, and this version has the same bug. So we will provide the fix for both of these packages at the same time. The data to be changed is the same in both cases, but the address where it occurs differs between the two products.

To make this modification, you will have to enter the Editor and load your object file, then make the changes shown below. To do this, you must find the line containing the specified address (leftmost two below) and locate the columns specific data to be changed. line which we are concerned with begins with an "A" followed by a 4-digit hexadecimal address. Each "B" 🖟 data field starts with a followed by 4 hexadecimal digits of data.

You must find the highest numbered line whose "A" address is equal to or lower than the address to be changed. Then count across the "B" fields in that line (remember to count in hexadecimal, and to count 2 for each "B" field) until you reach the specified address. You can double check that the field contains the specified original value as shown in the third column below. Then change the hexadecimal digits following the "B" to the value shown in the fourth column below.

In some cases, more than one "B" field may need to be changed on the same line. When you have changed all the "B" fields on a line. locate the check field at the end of the line. It will immediately follow the last "B" field on the line, and will contain a "7" followed by 4 hexidecimal digits. Change the "7" to an "8".

have made all the When YOU indicated changes, save the object file under a DIFFERENT NAME from the original, so that you have a backup in case you made a mistake. Here are the changes to be made:

tion	Original	Change
BFIX	Contents	To
015A	3F20	1020
12DC	<b>7</b> F00	<b>50</b> 00
12F0	<b>3</b> F09	1009
1328	<b>7</b> F20	5020
1340	<b>7</b> F05	5005
1354	<b>7</b> F00	5000
1364	<b>3</b> F09	1009
1378	<b>7</b> F00	<b>50</b> 00
1380	3F09	1009
	015A 12DC 12F0 1328 1340 1354 1364 1378	BFIX Contents  015A 3F20 12DC 7F00 12F0 3F09 1328 7F20 1340 7F05 1354 7F00 1364 3F09 1378 7F00

A version of this correction was published originally in MICROpendium. This is a modified version with the Navarone Bug Fixer correction added as well.

#### From CENTRAL IONA 99/4A U.G.

If you have the book by Ralph Molesworth Introduction to Assembly Language for the TI Home Computer; There are some corrections that should be made:

----PAGE 25 Lines 11&12--11 START MOV R11, @SAVRTN

12 LWPI WSPREG

----PAGE 112 LABLE SG2 should be MSG2 ----PAGE 115 & 121- PBASIC SEGMENT should be

PBASIC MOVB \*R2+,R1 : DEC R3
AB #OFFST,R1 : JNE PBASIC
BLWP #VSBW : RT
INC RO :

Hope the changes help some people. I know when I spend hours debugging a program and it still won't work and then find out it wasn't my fault after all; well it's a good thing my loaded 44 MAG. is in the bedroom and my computer isn't. So, if any of you have debugged a published program, let us know so we can publish it.

#### 

The A9CUG sent an order in to Jim Peterson of TIGERCUB Software. Before we could blink and turn around, the order came back filled. It even came with extras that we didn't even request. There will be a full review of his NUTS & BOLTS as well the other software that we received in the next CALL NEWSLETTER. Be it said here and now that when you order from TIGERCUB Software you get an unmistakable bargain and very good software. \$1 will get his catalog which is refundable on your first order.

TIGERCUB SOFTWARE 156 COLLINGWOOD AVE COLUMBUS, OH 43213

#### LAWS OF COMPUTER PROGRAMMING

The following comes from the L.A. 99ers' TOPICS newsletter Dec.1983 and Jan.1984

- Any given program when running is obsolete.
   Any given program costs more and takes longer.
- 3. If a program is useful, it will have to be changed.
- Any given program will expand to fill all available memory.
- If a program is useless, it will have to be documented.
- The value of a program is proportional to the weight of its output,
- Program complexity grows until it exceeds the capability of the programmer who must maintain it.

#### 9999999999

The next newsletter will also have a review of the MYARC 3Z/128K RAM Disk Expansion Memory. I have been nothing but impressed since I got the card. I especially like the way it can have a calculator type power supply hooked into it, so when your entire system is powered down, the information on your Ramdisk is still there. They might even have the chips to upgrade it to 512K by the lext newsletter.

### COMPUTER CRAPS By RAMSOFT ENTERPRISES Copyright 1983 All Rights Reserved

Computer Craps was written by Ramon Martinez of Ramsoft Enterprises. This program is copyrighted by Ramsoft and any attempt to sell this program for profit is a violation of the copyright. Effective October 20,1984, RAMSOFT gives the privilage to any users to copy and freely distribute this program as long as the following conditions are met:

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If you like COMPUTER CRAPS, and you feel that this program is worth five dollars, it is requested that you send five dollars to the author at the following address:

RAMON MARTINEZ 1125 FERNDALE AVENUE FULLERTON, CA 92631

#### 00000000000000

#### IMPORTANT NOTE:

THE CLUB BBS SYSTEM NEEDS A NEW SYSOP
Bob Willis, who has been operating the Club's
Public Domain Library as well as the Bulletin
Board System, will no longer be able to do
both. He is vacating the BBS Sysop position
because he does not feel he will have the time
to properly devote to it. We are presently
looking for someone to fill this position.

**3** 

BITHAC disk media software was designed for use with the TI-99/4A home computer. It is written in TMS9900 machine language for the utmost in speed and program function. The program provides bit precision graphics generation and editing. Some of the features are:

Line, rectangle, circle, copy section, mirror, rotate, reverse video, free hand draw, 7 brush sizes, 16 colors, bit "on" color, bit "off" color, screen color, color test area, 40 column text, text on text, text on graphics, 16 color text, upper and lower case, 4 direction bit scrolling, duap to printer (two sizes), save to disk, boolean graphics enhancement, "LIFE" graphics enhancement, second computer input, X Y vector reporting, monochrome and color monitor support, trackball support, single bit erase, single bit placement, block erase, erase colors, erase all, fill, enlarge, reduce, "slide show", "moops" function.

BITMAC is icon driven and is simple to use. Included are extensive documentation, an example coprocessor program and one year warranty.

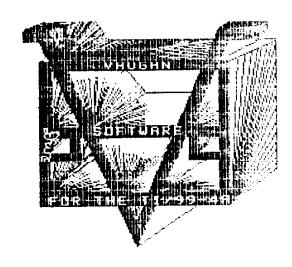
REQUIRED EQUIPMENT: Extended basic, Mini Memory or Editor Assembler module, a display monitor, joysticks, TI-99/4A computer, memory expansion and a disk drive system.

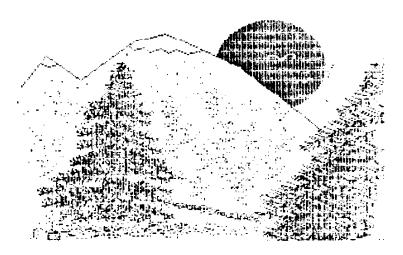
OPTIONAL EQUIPMENT: TI, Gemini or Epson printer, RS232 card, trackball, up to 5 disk drives (limited by the disk controller), second computer (any make) with RS232 interface and cable.

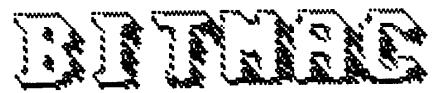
To Order: Send check or money order for \$29.95 plus \$2.00 shipping and handling to:

VAUGHN SOFTWARE 5460 Harlan #84 Arvada, CO 80002

For other inquiries please include a self addressed stamped envelope.







By Vaughn Software

For the

# **USERS GROUP SPECIALS**

P.O. BOX 2207
ACWORTH GA. 30101
404-428-9050

# MYARC"

### DOUBLE SIDED, DOUBLE DENSITY, DISK CONTROLLER.

- Includes cabling, manual and disk manager.
- Myarc's Level III disk manager allows flexability and features that are unsurpassed! Full screen editing.

\$159.95

## 32/128K Memory expansion and real RAM disk.

32K

\$129.95

 This unit may be purchased as a normal 32K memory expansion card and upgraded to RAM disk at a later 128K

\$229.95



\$69.95

TI 99/4A COMPUTER





**23** 

best.

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The entire contents of Tips from the Tipercub Nos. 1 through 14, with more added, are now available as a full disk of 50 programs, routines and files for just \$15.00 postpaid!

Nuts & Bolts is a diskfull of 100 (that's right, 100!) XBasic utility subprograms in MERGE format, ready for you to serge into your own programs. Contents include 13 type fonts, 14 text display routines, 12 sorts and shuffles, 9 data saving and reading routines. 9 wipes, B pauses, 6 music, 2 protection, etc., and now also a tutorial on using subprograms, all for just \$19.95 postpaid!

And I have about 140 other absolutely original programs in Basic and XBasic at only \$3.00 each!(plus \$1.50 per order for casette, packing and postage, or \$3.00 for diskette, PPN) I will send you my descriptive catalog for a dollar, which you can then deduct from your first order.

Several different routines have been published which will extract and save a specified series of lines out of a program, but this one by George Steffen of the L.A. 99ers is certainly the

1 !SUBROUTINE EXTRACTOR by 6 eorge F. Steffen. SAVE in ME RGE foreat. MERGE into any p rogram (with line # starting above 8). RUM to extract 2 !selected lines. Deletes i tself. Then BE SURE to SAVE the selected lines in MERGE format because the remaining lines are still in memory! 3 CALL CLEAR :: CALL INIT :: INPUT "Line numbers of rout ine to be saved: First, Last?

":L,M :: 6=256 :: CAL

L PEEK(-31952.H.I.J.K) 4 C=INT(M/6):: D=M-C#6 :: F= (J-6) \$6+K :: FOR E=(H-6) \$6+I TO F STEP 4 :: CALL PEEKIE. A.B):: IF A=C AND B=D THEN 6 5 NEXT E :: PRINT : "LINE";H; "NOT FOUND!" :: STOP !@P-6 H=INT(E/6):: I=E-(6#H):: H =H+6 :: C=INT(L/6):: D=L-C\$6 :: FOR E=E+4 TO F STEP 4 :: CALL PEEK(E,A,B):: IF A=C A ND B=D THEN B !@P-7 NEXT E :: PRINT :"LINE":L: "not found!" :: STOP !@P-8 E=E+3 :: J=INT(E/6):: K=E-(613):: J=J+6 :: CALL LOAD(-

The enhancements to my Menu Loader, published in Tips #22, contained an error. Please change line #13 to read - #13 LINPUT #2:W\$ :: PRINT W\$ :: IF EOF(2) THEN #16

31952,H,I,J,K):: STOP !@P-

Some folks were interested in the idea of a program that writes a program that will write a program that will write a program to list the token codes that you need to use to write a program that will write a program -

100 OPEN 01: DSK1.TOKENLIST ,OUTPUT, DISPLAY , VARIABLE 16 3 :: FOR N=129 TO 254 :: L1= INT(N/256):: L2=H-2568L1 110 PRINT 01:CHR6(L1)&CHR6(D) 1: NEXT N 120 PRINT 01:CHR6(255)&CHR6( 255):: CLESE #1 :: END

Key that in and SAVE it just in case, then RUM it. When READY, type NEW, then MERSE DSK1.TOKENLIST. Now LIST it and you will see a list of ASCII codes 129 through 254 and their token meanings. Delete lines 171 through 175, 185, 198, 226 231. and 242. through Change the definition of 199 to QUOTED STRING, of 200 to UNQUOTED STRING, and 201 to LINE NUMBER, and add line 255 END OF FILE.

You don't need all those exclanation points, so change the program to a DIS/VAR 80 file by LIST "DSK1.TOKENLIST". Then key in this little routing.

100 OPEN #1: DSK1.TOKENLIST"
:: OPEN #2: PIO"
110 LINPUT #1:A\$ :: PRINT #2
:SEG\$(A\$,1,4)&SEG\$(A\$,6,LEN(
A\$)):: IF EOF(1)()1 THEN 110
120 CLOSE #1 :: CLOSE #2 ::
END

RUN it, and print out a list of all the token codes. More on this next month - if someone buys a few programs so that I can afford another month.

Now that we've done about all that we can with the Henu Loader, here is another version to use on your finalized library disks of programs. It lacks the features that you will no longer need, but will list your programs by their full mames, up to 24 characters long.

100 !NAMELOADER by A. Kludge /M. Gordon/T. Boisseau/J. Pe terson/etc. 110 CALL CLEAR :: CALL SCREE N(5):: FOR S=1 TO 14 :: CALL COLOR(S,7,16):: NEXT S :: C ALL VCHAR(1,31,1,96):: CALL COLOR(9,2,16) 120 O'TION BASE 1 :: DIN P60 (99),N6(99)

398 CLOSE \$1

40" CALL INIT :: CALL PEEK (-

31952, A, #):: CALL PEEK (A#256

130 ! List the full mames of the programs on the disk in the DATA statements, in the sequence in which they are listed by an ordinary disk cataloger program 140 !Then SAVE this program under the filename LOAD 158 DATA 148 DATA 170 DATA 180 DATA 199 DATA END 200 FOR J=1 TO 99 :: READ HS (J):: Ms(J)=SE56(Ms(J),1,24) 218 IF Ms(J)="END" THEN Ms(J )=" " :: 60T0 230 220 NEIT J 230 INAGE ## 240 DISPLAY AT(1,4): TIGERCU **B NAMELOADER\*** 258 D\$="DSK1." :: OPEN 01:D\$ , INPUT , RELATIVE, INTERNAL :: INPUT #1:P\$ 260 FOR X=1 TO 99 1: IF X/20 C) INT (X/20) THEN 290 279 DISPLAY AT(24,1):"Type 9 of choice or Enter 8" :: AC CEPT AT (24, 27) VALIDATE (DIGIT ) SIZE (-3):K :: IF K=0 THEN 2 BO :: IF K>O AND K<NN+1 THEN 390 ELSE 270 7RA Yat 290 I=I+1 :: IF I>127 THEN K =X :: 60T0 370 306 INPUT \$1:P\$ :: NN=NN+1 310 IF LEN(P4)=0 THEN 350 320 DISPLAY AT(X+3,2):USING 230:NN :: DISPLAY AT(X+3.5): MS(NN):: P65(NN)=P5 330 CALL KEY(0, KK, ST):: IF S T=8 THEN 349 :: FLAG=1 :: 60 TO 350 340 NEXT X 350 DISPLAY AT(X+4,1): " :: DISPLAY AT (X+5,2):USING 230 : NM+1 :: DISPLAY AT(X+5,6):" Terminate\* 368 DISPLAY AT(X+6.1):\* hoice?" :: ACCEPT AT(I+6,16) SIZE(2) VALIDATE(DIGIT):K:: IF KCHIN AND KCHIN+1 THEN 38 370 IF K=NN+1 THEN CALL CLEA R 11 CLOSE 41 11 END 388 !IF K(1 OR K)99 OR LEN(P 64(K))=# THEN 35#

+B-65534,A,B):: C=At256+B-65
534 :: A0=B0+P60(K):: CALL L

OAD(C,LEN(A6))
418 FOR I=1 TO LEN(A6):: CAL
L LOAD(C+I,ASC(SEG0(A0,I,1))
):: NEXT I :: CALL LOAD(C+I,
8)
428 CALL VCHAR(1,3,32,672)::
CALL SCREEN(8):: FOR S=8 TO
14 :: CALL COLOR(S,2,1):: N

EXT S :: DISPLAY AT(12,2):"L

OADIM6 ";H\*(K)
438 RUM "DSK1.1234567899"

Last month I forgot to have anything for the kids, or anything in Basic, so -

100 CALL CLEAR 110 REM by Jis Peterson of Tigercub Software 120 PRINT TAB(1): \*\*\*\*\*AUTOMA TIC HOUSE MAZERRER: : : : : Choose your souse and":"wa tch it try to find its way" 130 PRINT "through the maze. ": :" When one of the mice has": "taken 50 extra steps, the":"cat gets it!" 140 PRINT : :"Touch any key" 150 CALL KEY(O.K,ST) 160 IF ST(1 THEN 150 170 CALL CLEAR 188 CALL CHAR(120, \*0078FEFFF £78") 198 CALL CHAR(121, "1938387C7 C7C7C38\*) 200 CALL CHAR(122, "387070707 C383816") 210 CALL CHAR(123, \*001E7FFF7 FIE") 220 CALL CHAR(128, "901E61816 11E") 230 CALL CHAR(129, "384444444 4242419\*) 249 CALL CHAR(130, \*102828444 4444438") 250 CALL CHAR(131, "007886818 478") 260 CALL SCREEN(5) 278 T1=618 200 T2=610 298 CALL CHAR(136, "FFFFFFFFF FFFFFF\*) 386 CALL COLOR(14, 16, 16) 319 CALL COLOR (13, 2, 16)

370 CALL COLOR(12,2,16)

3.4 R=10

349 60SUB 1468

350 R1=10 360 C=2 37# C1=2 388 CALL HCHAR (R,C,136,2) 39# C-C+1 400 M=120 410 H2=128 428 RANDONTEE 430 A=(INT(2#RND)+1)#2 440 B=INT(104RND)+1 450 ON B GOSUB 470,470,470,4 79, 519, 519, 559, 550, 598, 598 469 50TD 429 470 IF C+A>30 THEN 630 486 CALL HCHAR (R, C, 136, A) 498 C=C+A 500 RETURN 518 IF R+A>28 THEN 548 529 CALL VCHAR (R,C,136,A) 538 R=R+A 540 RETURN 550 IF R-A(2 THEN 580 56# CALL VCHAR(R-A+1,C,136,A 578 R-R-A **580 RETURN** 598 IF C-A(3 THEN 628 600 EALL HCHAR (R, C-A+1, 136, A 610 C=C-A **620 RETURN** 638 CALL HCHAR (R, C, 136) 640 C=C+1 658 IF CC31 THEN 638 660 R2=R 670 C2=C 680 CALL HCHAR (R1,C1,H) 698 CALL HCHAR (R2, C2, M2) 788 Y=Y+1+(Y=2)#2 710 IF Y=2 THEN 1020 728 CALL HCHAR (R1.C1.136) 739 ON H-119 SOTO 899,988,74 740 IF C1=31 THEN 950 750 CALL GCHAR(R1,C1+1,6) 760 IF 6=32 THEN 850 77# C1=C1+1 789 M-129 798 60TD 958 900 CALL SCHAR(R1-1,C1,6) 810 IF 5-32 THEN 740 826 R1=R1-1 830 M=121 848 SOTO 958 850 CALL SCHAR(R1+1,C1,6) 860 IF 6=32 THEN 900 870 R1=R1+1 999 H-122 899 60TO 958 990 CALL GCHAR(R1,C1-1,6)

930 N=123 940 60TO 950 750 CALL HCHAR (RI, CI, H) 960 IF (C1=31) # (C2=2) THEN 13 970 IF C1(31 THEN 700 986 T2=T2-16 990 CALL SOUND (50, T2, 5) 1000 IF T2=110 THEN 1348 1819 GOTO 788 1020 CALL HCHAR (R2, C2, 136) 1030 ON N2-127 GOTO 1040,120 0, 1079, 1150 1040 CALL GCHAR (R2+1, C2, 6) 1950 IF 6=32 THEN 1990 1948 R2=R2+1 1970 H2=129 1000 SOTO 1250 1090 IF C2=2 THEN 1250 1100 CALL 6CHAR(R2,C2-1,6) 1110 IF 6=32 THEN 1150 1120 C2=C2-1 1130 MZ=12B 1140 GOTO 1250 1150 CALL 6CHAR (R2-1,C2,6) 1160 IF G-32 THEN 1200 1170 R2=R2-1 1180 H2=130 1198 60TO 1258 1200 CALL 5CHAR (R2, C2+1,6) 1210 IF 6=32 THEN 1040 1220 C2=C2+1 1230 #2=131 1248 SOTO 1258 1250 CALL HCHAR (R2, C2, M2) 1260 IF (C2=2) # (C1=31) THEN 1 320 1270 IF C2>2 THEN 700 1280 T1=T1-18 1290 CALL SOUND (50, T1, 5) 1300 IF T1=110 THEN 1370 1318 5070 788 1320 CALL HCHAR(1,1,32,768) 1330 GOTO 330 1349 60SUB 1469 1350 PRINT "THE CAT GOT THE WHITE MOUSE": : 1369 GOTO 1398 1370 GOSUR 1460 1380 PRINT "THE CAT GOT THE BLACK NOUSE": : 1390 PRINT "TO PLAY AGAIN, T **DUCH ANY KEY®** 1400 CALL KEY(0,K,ST) 1410 IF ST(1 THEN 1400 1428 T1-618 1430 72=610 1440 CALL HCHAR (1,1,32,768)

910 IF 6=32 THEN 800

920 C1=C1-1

1450 60TO 330 1460 CALL HCHAR(23,1,32,32) 1470 PRINT CHR\$(120); (610-T1 )/10;TAB(20); CHR\$(120); (610-T2)/10 1480 RETURN Bid you know that ACCEPT AT(1,0) will accept a

ACCEPT AT(1,8) will accept a full line of 28 characters? Bid you know that ACCEPT AT (R,8) SIZE (-28) and Enterwill accept everything on row R? And did you know that ACCEPT H\$ will accept a string of 255 characters?

Heed a filler, so -

100 !HUSICAL BARGRAPH by Jim Peterson 110 CALL CLEAR :: CALL SCREE N(5):: FOR J=2 TO 14 :: X=J-(J)4):: CALL COLOR(J,X,X):: NEXT J 126 DIN N\$(13),N(13):: M\$="( #BBHPX 'hox "&CHR\$ (128) &CHR\$ (1 36):: FOR J=1 TO 13 :: #\$(J) =SEG\$(M\$.J.1):: DISPLAY AT(J +6.1)SIZE(1):NS(J):: NEIT J 130 X=110 :: FOR J=1 TO 13 : : N(J)=X\$1.859463894^{J-1):: 148 A=INT(13#RND+1):: B=INT( 25#RND+1):: DISPLAY AT(A+6.2 )SIZE(28): RPT\$(N\$(A), B):: CA LL SOUND (B\$46, N(A), #, N(A) \$2+ 4,8,N(A)#4+6,0) 150 DISPLAY AT(A+6,2):\*\* :: **50TO 148** 

**MEMORY FULL** 

Jie Peterson

his All Purpose
DUND 99'ERS who printed 'APPIL 85 Newsletter.
We wish to give credit to the PUGET SOUND 99ºERS who printed this All Purpose Handy Dandy Reference sheet in their APPIL 85 Newsletter.
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*****	e u i c K	REFER	ENCE	SHE	E T	<del>                                      </del>
COLOR CODES	* 	ATTERN IDEN	ITIFIER #			
COLOR VALUE	# 2	CONVERSION	TABLE #		COMMAND OF OPEN CLOSE	STATEMENT
TRANSPARENT 1 BLACK 2	*	9	8 * * * * * * * * * * * * * * * * * * *	3	INPUT PRINT	
MED. GREEN 3	* *	0 6 1 1	3 }	4 5	RESTORE	
DARK BLUE 5 LT. BLUE 6 DK. RED 7	*		6 7	7	DELETE	
CYAN S MED. RED	*		<b>á</b> ‡		EOF TYPE OF E	
LT. RED 10 DK. YELLOW 11	#	1 8 8 1	4	SECOND	DRIVE NOT	FOUND FILE WRITE
LT. YELLOW 12 DK. GREEN 13 Magenta 14	*	1 1 8 8	C *		PROTECTI BAD OPEN	ED Attribute
MAGENTA 14 GRAY 15 WHITE 16	į	1 1 1 0	E #	3 4	OUT OF SP	ACE
WHITE SO	ë *		*		END OF DEVICE ER	D READ PAGT
	*		*		HARDWAR	E ERROR
***********	********	******	<del>*</del> *******		disk does	not exist
***********		ASCII	CODEP			CODE
30 46 0 45	CODE A 82 R	CODE 79 C	CODE	CODE		150 NEXT
32 50 2 67	B 83 6 C 84 T D 85 U	188 d 181 e 182 f	117 u 118 v 119 w	133 134 135	GDSUB RETURN	152 STOF 151 DELETE
33   51 3 49 34 * 52 4 49 35 # 53 5 78	5 85 U E 86 V F 87 W	183 9 184 h	120 × 120 × 121 y		DEF DIM	154 REM 155 ON
36 6 54 6 71 32 % 55 7 72	6 88 X H 87 Y	185 i 186 j 187 k	122 z 123 (	139 148	FOR	156 PRINT 157 CALL
38 & 56 8 73 39 1 57 9 74	I 90 Z J 91 [	107 k 106 l 109 m	124   125 ) 126 ~	141 142 143	LET BREAK UNBREAK	158 OPTION 159 OPEN 168 CLOSE
40 ( 58 : 75 41 ) 59 1 76 42 # 60 < 77	K 92 \ L 93 ] M 94 ^	110 n	127 DEL		TRACE	161 SUB 162 Displa
- 43 + 61 = 78	N 95 _	112 p	129 ELS 13# ::	E 146	INPUT DATA	163 IMAGE 164 ACCEPT
45 - 43 7 99	P 97 A	114 F	131 ! 132 !F	148	RESTORE RANDOMIZE	165 ERROR
47 / ##################### CHARACTER SETS	F CALL KEY V	ALUE OF KE KEYSTRO	YSTROKES	1 JL	YSTICK RET	OKIA AMPORD
SET ASCIL CODES				·- #		JP.
8 30-31 1 32-39	1234567E966123	CTN 4		*	( <i>a</i> , (-4,4)	(4,4)
2 49-47 3 48-55 4 56-63	5 7	FCTN 2 FCTN = FCTN 6		*	`\	· /
5 64-71 6 72-79	7 6	FCTN 3 FCTN 5		* (-	4,8) LEFT /	(4,8)
7 80-87 8 88-95	19	FCTN D		*	/ 1	1
9 96-103 10 104-111	12	FCTN E FCTN 6 Enter		¥	(-4,-4)	(4,-4)
11 112-119 12 120-127 13 120-131	7 14 7 15	FCTN 9		i #	D(	4 ) SWN
14 136-143 15 144-151\BASIC	*		*****	* *******	************ CTATEMENT	********
16 152-159/ONLY	# <del>******</del>	# # ACCEPT	EXTENDE		STATEMENTS	ING SCREEN
ASC PRESS COMMEN			END ERR	LET Link		BASE SPEET
1 CTRL A START	OF HEADING .	* CHARSET * CLEAR	FOR GCHAR	LINPU LOAD	PEEK	\$TOP
3 CTRL C END OF	TEXT Trans.	# CLOSE	GOSUB GOTO HCHAR	LOCAT MAGNI MOTIO	FY PRINT	
	LEDGE '	# COLOR # DATA # DEF	IF THE	N NEXT	READ FAK REM	
7 CTRL G BELL 8 CTRL H BACKSP 9 CTRL I HORIZ.	ACE	# DELSPRI				Ē
10 SHFT/ENTR LINE P	EED AL TAB	# DISPLAY	T3YOL <del>######</del> #	ON GO	TO SAY	******
13 ENTER CARRIA	GE RETURN					
14 CTRL N SHIFT 15 CTRL D SHIFT 16 CTRL P DATA L	IN	*	POKE 6-2	55 RATE	of FLASH	of CURSOR
12 CTRL P DATA L 17 CTRL 0 DEVICE 18 CTRL R DEVICE	CONTROL 1	# -31788 # -31894	POKE 192 PEEK X.Y	Retu	BLE SPRITE Irns to Tit	action le Screen
19 CTRL & DEVICE	CONTROL 1 CONTROL 2 CONTROL 3 CONTROL 4	# -31886	POKE X.Y	DISA	BLE QUIT K	
21 CTRL U NEG. A	CKNUWLEDGE	Į.	POKE 16 POKE 32 POKE 64 POKE 4	DISA	BLES AUTOS	PRITE MOTION
24 CTRL X CANCEL	TRANSMIS. MEDIUM	# -21868 # -21868	POKE Ø	afte Runs	r 'NEW' 15	typed
26 CTRL Z SUBST	TUTE	# -31676 # -31666	POKE 6-2	6 High 255 Disa	est # SPRI	NEW fre-mem
SC CTRL M FILF 1	SEPARATOR SEPARATOR	# -31695 # -31695	POKE 72	Retu	TOP TO TIT	LE SCREEN
30 CTRL B RECORD		# -31952	POKE 55 Peek A.B.	C,D Rece	overs progr	B=No Speech
127 SHIFT V DELET	CHARACTER	# -46014	*****	******	******	***********