Newsletter Nine-T-Nine

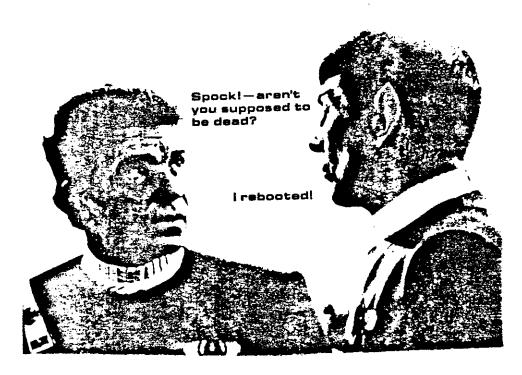
JANUARY 1990 ISSUE

9T9 Meeting Dates:

Jan.18,1990 Feb.15,1990 Mar.29,1990



FOR THE TI-99/4A COMPUTER



Happy New Year!

From:

9T9 Users, Group 109-2356 Gerrard St.E. Toronto,Ont.,M4E-2E2 Canada

To:

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RENBERSELP FEES

FULL MEMBERSHIP \$30.00 / year NEWSLETTER SUBSCRIPTION \$20.00 / year DISK-OF-THE-MONTH SUBSCRIPTION \$30.00 / year additional

Honey, have you seen the воизе? L. Briess 87

AUGHLINES

All memberships are household memberships. An newsletter subscription is only for those who do not wish to attend meetings, but wish to receive our newsletter and have access to our library. You are welcome to visit one of our general meetings before joining the group. If you wish more information contact either our president, in writing, at the club address on the front cover or phone him or our membership director.

The meetings are usually held on the last Thursday of each month, unless stated otherwise. Consult this issue of Newsletter 979 for the date and time of the next meeting. Meetings are held at meeting room of Canada Remote Systems, 1331 Crestlawn Dr., Unit D, Mississauga (Eglinton Ave./Dirie Road-Area), starting at 7:30 PM and ending at 10:30 PM. No meetings are held in the months of July and August. December's meeting usually takes place the second week of the month.

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Any business wishing to reach our membership may advertise in our newsletter. The rates are as follows. (beight by width):

FULL PAGE (10° x 7°) \$50.00

BALF PAGE (5° x 7°) \$25.00

QUARTER PAGE (2 1/2° x 7°) \$15.00

Please have your adverse.

Please have your ads camera ready and paid for in advance. For more information contact the editor.

Don't forget, that any member wishing to place ads, may do so free of charge as as long as they are not involved in a commercial enterprise.

REVSLETTER ARTICLES

Wewsletter 979 is published ten times a year by the 979 users group. Members are encouraged to contribute to the newsletter in the form of articles, mini programs, helpful tips, hardware modifications, jokes, cartoons and questions. Any article may be submitted in any form by mail or modem. We welcome the reprinting of any article appearing in this newsletter providing credit is given to the author and 9T9. If more information is required, call the editor. The name 9T9, Mine-T-Wine, Mewsletter 9T9, Mine-T-Wine Users Group, and 9-T-9 Users Group are Copyright, (c), 1986, 1987, 1988, 1989 by the 9T9 Users Group all rights received. Group, all rights reserved.

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CLUB BBS

The 979 Users Group sponsors the TI Tower BBS, (416)921-2731, 300/1200/2400 BPS, 24 Brs. Sysop: Gary Bowser.

MAILING ADDRESS

9T9 Users' Group 109-2356 Gerrard St.E. Toronto,Ont.,M4E-2E2 Canada

9T9 Meeting Dates:

Jan. 18, 1990 Feb. 15, 1990 Mar. 29, 1990





"just show me the mouse "

JANUARY 1990 ISSUE

9T9 - Page

TIdbits

By Steve Mickelson, President 9T9 Users Group Compuserve 76545,1255; Delphi SMICKELSON; GEnie S.Mickelson

The more things change...

The more they remain the same or so it seems. Here we embark on a new decade and yet TI is still going strong and last month's election saw the 9T9 return the executive slate by acclamation. I trust this is a vote of confidence, by the club membership, for our executive's hard efforts towards keeping the user group a vital force in the community.

Bob Boone made his visit with several boxes of software and hardware goodies. The sale took place following the business portion of the meeting. Just prior to "opening shop", Bob wanted to express thanks to our club for the Disk of the Month. Bob remarked, that in his travels across Canada, many sister TI clubs include in their meeting, the featured disk received from our group, along with the newsletter.

Further, Bob felt the quality of the D.O.M.'s software was high, and that the concept deserved recongnition.

I would like to thank Bob for his kind words and thank Andy Parkinson for the time and effort he spends screen, evaluating and assembling this disks. I know it takes alot of though to try and get a D.O.M. with a good mix of utilities, games and other software so as to appeal to a group with a wide spectrum of interests. Still, Andy tries not to include software which he wouldn't have in his own library.

In addition to Andy's effort, we must recognize Gary Bowser, Cecil Chin and Randy Rossetto's contribution to the copying and distribution of the Disk Of the Month.

This month, I would like to thank Steve Findlay, for a price comparison chart of TI software. For those interested in comparison shopping, I think you'll find it worth looking at.

Stop The Presses!

And finally, by the time you read this newsletter, the 9T9 Users Group should be listed on Delphi. (Yes you can now sign-on or renew your membership on-line! Including the Disk of the month!) This should bring a number of new members to the readership of our club. I trust you will find membership to the 9T9 Users Group, its Newsletter and, (if included), the D.O.M., a worthwhile investment!

For those readers who download every month, the cost of subscription may more than offset the cost of downloads, particularly since you get all the extra photos, diagrams, schematics and even jokes! As far as the Disk Of The Month is concerned, see Bob Boone's remarks, above.

Software Updates:

A letter, from Asgard, to registered users of "Page Pro 99", announced the release of version 1.5. Some new features include a disk cataloger, which may be invoked at any prompt for a filename, from withinthe program. The user will see a list of all the files, one after another, pressing enter will load that selected file. Hard drive support is also included.

Also, the update allows for "clipping" any portion a page created by Page Pro, and saving it as a picture. With this feature 28 pictures can be placed on a Page Pro page, which can be Saved, then reloaded, and another 27 pictures added to that Page and so on to make an infinite collage of pictures.

Ed Johnson's update includes several improvements to make Page Pro even more user friendly.

Registered users may receive their updates, by sending the program disk only and including \$4.00, to Asgard. For those who have yet to purchase Page Pro 99, you can get the new release for \$24.95. Remit these amounts in U.S. funds to Asgard Software, P.O. Box 10306, Rockville, MD, 20849, U.S.A. Please note the new postal code for Asgard.

Remember, you read it in TIdbits first! Chris Bobbit of Asgard Software reports that a new company has bought the rights to the Mechatronic 80 column card. This card has been modified for improved video and has a built-in interface to take an off-the-shelf IBM-type mouse. If Bobbit can get twenty interested parties, he will go ahead and place an order for the cards. The price will be \$200.00 US plus \$10.00 shipping. Asgard has been granted the North American rights to this card. If you are interested, contact Chris Bobbit c/o Asgard, at the above address or on Compuserve, through Easy Plex at the address: 72561.3241.

Funelweb Farms has released version 4.2 of their writer/utility software set, (for those with 80 columns, i.e. Geneve users, Mechatronic and Digit owners 80-column release is 2.2). This update will soon be added to our library.

9640 Library Director Needed:

About twenty percent of our local club membership have 9640's. It is approaching three years since Myarc introduced the Geneve. In that time, there has been a number of Geneve specific software as well as "adapt" software either to 80 columns or to allow the software to run on the Geneve, in GPL mode.

To date, the only way a club member with a 9640, could get a release of Shareware or an update was to either buy a modem and download it from the TI Tower BBS or from a commercial database, or arrange to visit another user. Many times, we have had two or more members spend time and money on Delphi, GEnie or Compuserve, downloading the same files or set of files. Further, many users find that they cannot use a new software release, because they don't have the latest version of MDOS. Currently, depending on whether or not has a RAMdisk or Hard Drive, you may need to use one of three versions of MDOS, at least until the final release is configured to use any/all these devices.

Therefore, I am requesting a volunteer to help assemble a library of MDOS or Geneve-specific software for addition to our club library. This would include all Shareware and Public Domain software releases, (such as Exec, Mouse Menu, PR Base, Archiver, Funelwriter, etc.), that are available. The candidate would maintain the library, by adding the latest releases of the software. Other Geneve users would pass-on whatever updates they receive to the new Geneve Library director.

The candidate should be a Geneve owner/user and be able to attend meetings on a regular basis or at least contact another executive on a regular basis. The

Geneve library will be available to any/all users from the 9T9 Software Library. If interested in this position, please contact any of our club executive.

TI Pro Users:

From time to time, I have received calls from a TI Pro user regarding hardware or software support. Commercial database such as Delphi have offered dedicated databases for the now orphaned computer. While purchasing cables, I had occasion to find an authorized TI Pro dealership, Hi-Tech Services, 2570 Eglinton Ave.West, Toronto,Ont.,M6M-1T4.West,(416)652-5212. Computer Consultant, Mick says his firm offers hardware/software sales and service for the orphaned TI Pro.

Surprise visit:

In addition to Bob Boone's visit last meeting, we were visited by Steve Andrews of the North Bay 99ers. Steve, known for his disks of captions, (reviewed in MICROpendium and elsewhere), gave us an informal talk on the new TI Artist Plus. It seems that the manual is virtually identical to the original TI Artist manual with the TYPE command for text still described in the manual, though not included in Artist Plus, where new features such as drawing RAYS has not been included. In spite of the shortcomings of the manual, Steve feels Artist Plus is a genuine improvement and worth the price.

In the mail:

My entry for the last 9T9 Software Contest was a Tic-Talk-Toe program, converted to run out of TI Extended BASIC. The original version ran out of console BASIC, using the TI Speech Editor Module. I used the VDP Utility2, which appeared in the Chicago TImes Newsletter. I received a letter from Irwin Hott, which is as follows:

STEVE MICKELSON C/O 9T9 Users Group 109-2356 Gerrard St.East Toronto.Ont..M4E-2E2.Canada

Irwin Hott 1540 Northridge Road Columbus. DH 43224 November 14. 1989 Elwood

WOW, THIS'S IT! I'M JUST
ONE EQUATION AWAY
FROM A PROCESS THATUL
REVOLUTIONIZE THE
BATTRE SABREY INDUSTRY!





Dear Mr. Mickelson:

I recently downloaded TICTALKTOE from the TI-World BBS in Los Angeles. I have made some changes to the program and I am sending you a copy of it. If you wish to do so, feel free to distribute this version. I added an Assembly version of VDPUTIL2 by Karl Romstedt of the Central Ohio Ninety-Niners. I also ran the program through XB*TOOLS to compress it and prescanned it. It runs much faster now and is 38 rather than 50 sectors. I hope you like this version of TICTALKTOE.

I have also included the ALSAVED version of Karl's program. The source-code will be available when the next issue of Genial Traveler is rebeased.

Sincerely, Irwin Hott

I have passed Irwin's version on to Andy for evaluation and addition to our library. This brings up a TIdbit, I've been meaning to discuss for some time. Namely the large number of console BASIC programs, which were good, until the advent of Extended BASIC. The same goes for the many Mini-memory utilities set aside after Editor Assembler came along. Also, what about all the cassette-based software?

Aside from the usual garbage software, (such software can easily be found in Extended BASIC and ASSEMBLY), there may be a number of software gems left unused in a drawer or cabinet, the user abandoning it for speedier software running in a faster environment. With the advent of the VDP utilities to easily allow BASIC software to run from Extended BASIC, many BASIC programs become worthy of a "second-look". With the use of compression and pre-scanning utilities, such BASIC programs can fly almost as fast as any Extended BASIC program. Getting Mini-mem programs to run from Editor Assembler is no great feat for a writer familiar with ASSEMBLY. Which brings a challenge to all those readers, for 1990. Why not waste time re-inventing the wheel, when you find even more interesting discoveries collecting dust all these years?

Teapot tempests:

Finally having investigated the world of Big Blue for a business venture, I've come to a interesting conclusion. Namely what is happening among us TIers is very similar IBMers, in many respects. If you discount the larger user base and fact that IBM is geared more towards strictly business user, many aspects of hardware evolution are alike.

For example, TIers complain that with the advent of 80-column cards, RAMdisks and hard drives, there arises the need for software which can best utilize the capabilities of these hardware devices. This software is useless, unless the user has that hardware device installed in his system. Likewise those with P-Code Cards are isolated from other TIers. The rift becomes larger among Console only users, those with TI Expansion systems and Geneve users, find themselves using a computer effectively different from the other two, as from another brand on computer.

We find that CorComp microexpansion systems offer differ from TI systems in many regards, including the tool shed utilities which permit software exclusive to this brand of controller. While this is not a major difference, its another form of incompatibility. Likewise, Myarc disk controllers and expansion systems, enabled specific CALL's unique unto themselves, along with being able to format disks that can normally be read by systems with Myarc disk controllers. Also, Myarc can deal with higher track density drives than other brand controllers.

If we see the specific calls available exclusively to users Myarc XB II, Mechatronic Extended BASIC, Super Extended BASIC, etc. ., we find even more differences!

Enough for the chaos in TI land, what about those in the world of Big Blue? For starters, like three different computer systems, we have IBM PC's, XT's and AT's. Software among the three is not always interchangeable. Then we find that there are clones of XT's and AT's that, which may not be 100% compatible to an IBM system.

If we look at floppy drives, we'll see that AT's use a higher density format that cannot be read by an XT. Hard drive controllers MFM, RLL, ESDI and SCSI each require a specific and different hard drive. Further, what version of DOS determines whether a user can format a large capacity drive or must partition the drive into partitions not exceeding the limitations set depending on what version of DOS. An upgrade in DOS, may mean the need to upgrade the BIOS EPROM set, (sound familiar to users of HFDC's, 9640's and CorComp Disk Controllers?).

AT may find their CPU, having a 286, 386 or 486 CPU at any of a number of speeds which can have an effect on whether a piece of software works properly or at all. AT's and XT's come in a variety of clock speeds, which have a similar effect on software. Also, the limit of Extended memory can vary between XT's and AT's.

The other difference is in graphic output, not as simple 9938 vs 9918 video display differences. IBM has MDA,CGA, EGA, VGA and super VGA. All with different cards, with differences in colours, both number, density and whether or not colour is displayed at all! Then there is the new PS/2 system which has now introduced another video standard.

If we consider that all these systems fragment IBM users and that many clone manufacturers tend to add hardware features which may require the MSDOS be modified to use these features, which lends to more differences.

The bottom line is two groups of computer users, TIers and IBMers, who have much more in common than was previously thought. Whereas, the IBM user may pick the software environment needed to meet his computing needs and buys the hardware to suite, most TIers started with basically the same hardware, have purchased a hardware item, (whether it be hard drive, RAMdisk or 80-column card), and then get the software necessary to use the hardware. The evolution is different in the above aspect, but the net result is the same.

Since the TI is a mainly a hacker/hobby/home system and the IBM, a business computer, the philosophies of user are the major difference. Unfortunately, for many users, the remaining software and hardware producers, perceive the need of the TI community to be an echo of the users of Big Blue. Thus, the major software and hardware developments have been business oriented; desktop publishing software, (good for corporate newsletters); databases, (great for warehouse inventory); hard drives, (great for graphic data used in DTP and databases); 80-column cards, (for improved Wordprocessing and Multiplan applications); etc. The question arises, are we TIers so insecure about our systems that every new software and hardware product must echo the office computers? It seems that the new software for the 80-column cards, has all but ignored speech vibrant colors and music, features that the latest PS/2 computers have sought to include in their systems to humanize their systems. Speech and music cards are now available for clones, as are game cards, to allow the use of joysticks.

I fear that in its efforts to emulate big blue, TI hardware manufacturers are going in diametrically opposite directions of the IBM users and in effect are throwing the baby out with the bathwater. There was consideration for making a flight simulator for the Geneve, which has now been abandoned. It seems a shame, but users, new to the TI world, like the TI because of the non-business features, colours, music, speech, sprites and software that utilize all these features well. If they wanted bland non-descript software, instead of buying a used TI, they would have bought a used XT.

The hardware and software of TI users seems to be evolving to where IBM was 5 or 6 years ago, while IBM users are getting more and more features that made the TI appealing as a home computer, I am afraid that TI third party manufacturers are on a road to eventual self-destruction. Even the president of Texaments, in an interview printed in last month's issue of this newsletter, did not feel that it was worth the time or money to rewrite TI Artist for the 9640. We TI users may just as well replace the 9918 video chips with the monochrome 9928, buy monochrome monitors that have no sound, and throw away our speech synthesizers and joysticks.

Considering the built-in capabilities of the TI, our software should have the spectacular colour/sound capabilities of an Nintendo game, simplicity of a MacIntosh program and the originality, that was the hallmark of TI when they first brought out the home computer.

At some point in the not-too-distant future, the evolutions of TI and IBM worlds will pass like ships in the night. And the dawn of the next day will see a business computer that's just as much fun in the home and a home computer becoming just as dull and unimaginative as the business computer once was. And the manufacturers will wonder "where did we go wrong?"

The above opinions are of Steve Mickelson are not necessarily that of the 9T9 Users Group or the majority of its membership.

1989 Newsletter Index

The PRK file included in this set is an index of all the articles for Newsletter 9T9. The legend for the file is as follows:

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WEST PENN 99 ERS CLUB INFORMATION

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1-800-826-5432 VISA, MASTERCARD, DISCOVER ALL ELECTRONICS CORP. P.O. BOX 567, VAN NUYS CA 91408 NO COD.

Note: They also have 44-Pin connectors ideal for I/O port projects for \$1.00 each 10 for \$8.00 Catalog number: EBC-1G. If you don't have some of these as spares, or you're having a problem with your keyboard or RF mcDulator, don't wait order now! J.F.W.

FILE: 9T9PRK89
DATE: 1/14/90
TITLE: 9T9 INDEX'89

This review, also, came from ROM:

HORIZON P-GRAM CARD

by Siles Bazerman

The latest hardware release from Horizon is the P-gram card. For those of you that missed the January meeting, where I demoed it, I will review it here.

If you take a collection of Random Access Memory chips, interface chips and control chips and assemble them into the right configuration you end up with a P Box card that thinks it is a module. This is what the P-Gram is all about.

Using a circuit developed by John Guion, Bud Mills has produced another card which promises to become a winner. The P-Gram is a P box card which allows the saving and loading modules from disk. It also has a memory editor which lets you customize your modules, or even create your own. It is available either in a kit form or assembled and can be obtained with an optional clock.

I ordered my card from Bud Mills Services prior to release after a phone conversation with Bud. I have experienced strong support from Bud and appreciate the excellent quality of his kits. This is the third of his kits I have purchased.

The kit comes complete with a cleanly etched printed circuit board, and all parts needed. You only have to provide solder, a soldering iron, and a screwdriver (1 screw to hold the heat sink in place). You also receive a disk of programs for the DSR, a disk of source code for the DSRs, and either (as advertised) a manual on disk, or in my case two manuals already printed.

The first manual is a construction manual by John Guion, the card designer. This is one of the finest set of instructions I have run across in over 40 years of building and assembling electronic kits. There is no question in what order or where parts go. The text and diagrams (which match the silk screening on the PC Board) eliminate any confusion. The other manual is an operating manual by Robert Jones, who wrote the software, and John Guion. It is also excellent and contains full instruction for saving and modifying modules, assembly code for producing your own modules, and accessing the DSR in several ways. More code and assembly language than I could handle, and more tech info about the operating system than you realy need to run the card.

I received board #005 and three hours after opening the carefully packed parts had the board built and ready for testing. Another half hour had it installed, tested and operational. Admittedly, I have an ideal soldering bench, with cardholder, iron stands, choice of irons, magnifying lens with light, etc. but anyone who can solder can assemble this kit with no difficulty.

The card runs as advertised. You can access the card and the clock seperatly from X-BASIC or BASIC with a "CALL PG". You then have a menu to 1 Initialize, 2 load, 3 save P-Gram (or module), 4 Memory editor, and 5 Quit.

Using this card you can not modify Groms 0, 1, or 2. You can however look at them in memory, move them to other locations to save to disk and then study them to see how they work. You can access GROMS 3 to 7 and two 8K banks of RAM to emulate any and all modules. I have loaded TI, Atari, and Navarone modules successfully and following the docs modified several.

I have also used several packs done on a GRAMKRACKER with total compatability. I believe you can even modify the GK utilities to work on the P-G if you switch on Write Enable in software.

I would rate this card a straight A for all areas due to the excellent documentation and ease of use.

- from Boston Computed Tech Talk

Several times in the past our group has demonstrated hooking two TI systems together via the RS-232 ports. Programs and other files transfer rapidly at speeds up to 9600 hand over a simple 3-wire cable as long as 75 feet. One drawback is that commercial RS-232 cable is usually made up of 9 or 25 wires, making a 50-foot length rather bulky to carry around with the system. I proposed a novel approach Rod Cook and I had come up with several years ago, which was to convert the standard DB-25 connection to modular phone hookup using adapters. At that time such adapters were not commercially available but could be fabricated with a little effort and ingenuity. Not finding the time or energy to do any creating engineering. I simply dropped the project. Now Radio Shack has introduced just such an adapter in their general line under the catalog number 276-1405. This \$2.99 package contains one DB-25 hood with a built-in modular phone jack and a 25-pin male plug at the opposite end. There are 6 color-coded wires coming from the phone jack with crimped-on pins for the DB-25 plug along with two 2" jumpers with pins at each end. All hardware for assembly is included. Instructions are printed on the back of the package for assembly. Two such adapters are used to connect TI computers in a null modem configuration. Both of the adapters must be wired the same, since the criss-crossing of transmit and receive data lines is handled by the unique way modular phone cords are wired. The pin connections from the jack are inserted into the DE-25 plug as follows:

 Red
 --- pin 2

 Green
 --- pin 3

 Black
 --- pin 7

 Yellow
 ---- pin 1

The remaining blue and white wires are not needed and may be clipped off near the modular jack. Ordinary four-conductor modular phone conds can not connect to these pins. Save the two jumpers as their pins might be handy spares. Following final assembly of the adapters the connection can be tested using any commercial phone cord up to 50 feet in length and any of the slicker terminal programs like Telco, Fast-Term, Mass-Transfer, or 4A/TALK. Connection can also be made to IBM PC, Tandy, Apple, Macintosh, or other computers using an appropriately configured adapter at the other end. Specific connection for IBM PC and compatibles for both 9 and 25 pin serial ports can be obtained from the technical committee of the Amerillo 99/4 Users Group. At a mere \$2.99 each, these adapters are well worth having in the TI backer's inventory.

Steve's Sanctum

By Steve Findlay, 9T9 Users Group

This chart was originally made up for new console owners of my acquaintance. Most of those people purchased their TI's for young children. Since no previous home computer experience was the norm, cassette based software was not what anyone wanted.

The prices were taken from the lastest catalogs from three TI supply companies (Tex-Comp's Tenth Anniversary catalog, Triton's Fall '89 catalog and the Joy Electronics [Dallas, Texas] March '89 catalog).

As not all the modules that TI and others produced, are still available, this list is also a good indication of what is left. There were a few modules listed in Triton's catalog that were in limited quanities and so, were not included here. The ratings are only a guide and not to be taken as gospel. No stars indicate unrated.

		, 		,	T
ENTERTAINMENT MODULES	TRITON	TEXCOMP	JOY	RATE	REMARKS
4A FLYER ADVENTURE (pirate adv inc) ALPINER A-MAZE-ING	17.95 14.95	19.95 6.95 4.95	9.95 19.95	****	has speech
BARRAGE BEYOND PARSEC BLACKHOLE BOXER BREAKTHROUGH	19.95 17.95 19.95 17.95	16.95 16.95 16.95		**	
BURGERTIME RURGERTIME CAR WARS CENTIPEDE	17:75 2.49	16,999 9,999 4,999 15,995	19.95 4.49	****	inveticly roped
COMEDITER WAR	8.95 24.95 7.95		7.95 10.95	****	joystick req'd
CONNECT FOUR D STATION DEFENDER DONKEY KONG DRAGON FLYER	7.95	8.955 14.95 19.95 16.95	4.49 9.95	*** ****	joystick req'd
ESCAPE FATHOM FROGGER JAWEREAKER II	19.95	9.95 19.95 5.95	10.95 7.95	***	
JUMFY JUNGLE HUNT JUNKMAN JR. HANGMAN	17.95	55555555555555555555555555555555555555	7.95 9.95	****	
HOPPER HUNT THE WUMPUS HUSTLE MASH MANCALA	11.9955555 199999 19719	4.95 4.95 6.95	6.95 11.95	***	has speech
MICEN FINEALL		55555555555555555555555555555555555555	10.95	***	joysticks requ
MICROSURGEON MICROSURGEON MICROSURGERS MICROSURGERS MOON PATROL MUNCHMAN MUNCHMAN II	17.95 17.95	16.95 955 9.95 4.95	14.95 7.95 5.95	****	joystick req'd
MUNCHMAN II MUNCHMOBILE PARSEC PICNIC PARANOIA POPEYE PROTECTOR II G*BERT GMAZE RED BARON FLIGHT SIMULATOR RED BARON FLIGHT SIMULATOR RETURN TO PIRATE'S ISLE	17.95 6.95 2.49 5.95		1055959595959595959595959595959595959595	***	strategy game has speech
POPEYE PROTECTOR II OWASTE	7.95	11949999999999999999999999999999999999	19.95 4.49 19.95	****	strategy game has speech joystick req'd joystick req'd joystick req'd
ISI VMOTOS	16.95 25.95 14.95	11.95	19.95	****	text/pics game joystick req'd
SNEGGIT SPACE PATROL SPAD XIII	7.95 19.95	}	14.95	***	
SNEGGIT SPACE PATROL SPACE PATROL SPACT SHOT SPACT SHOT SPACT SEMISE STAR RUNNER STAR TRAP STAR TRAP STRIKE THREE!	17.95 17.95 17.95 17.95 7.95	510510505 999999 4666699 2111111	24.95 10.95	***	
SUFER DEMON ATTACK	/.75	7.75	10.75	****	<u> </u>

ENTERTAINMENT MODULE	S TRITON	TEXCOMP	JOY	RATE	REMARKS
THE ATTACK II INVADERS	2.49 2.49	4.95	4:95	****	
TOMESTONE CITY	2.49 17.95 2.49 19.95	16.95	4.49	**	
TUNNELS OF DOOM ZERO ZAP	17.75	9.95 8.95	14.95	****	text/pics game

MISCELLANEOUS MODULES	TRITON	TEXCOMP	JOY	RATE	REMARKS
HOME FINANCIAL DECISIONS HOUSEHOLD BUDGET MANAGEMENT PERSONAL REAL ESTATE PERSONAL RECORD KEEPING PERSONAL REPORT GENERATOR PHYSICAL FITNESS PRO TYPER MUSIC MAKER SORGAN II (music) TAX/INVESTMENT RECORD KEEPING TI PLANNER (mini spreadsheet) WEIGHT CONTROL + MANAGEMENT	1.99 1.99 2.49 9.95 19.95	55555555555555555555555555555555555555	4.9555 19.99 19.99 19.99 11.		(6 and up)

EDUCATIONAL MODULES	TRITON	TEXCOMP	JOY	RATE	AGE GROUP
	6.95	000000 00000 00000	9.999999999999999999999999999999999999	**** *** ***	(5-7) (5-8) (5-10) (8-10) (7-10)
ADDITION/SUBTRACTION 1 ADDITION/SUBTRACTION 2 ALIEN ADDITION ALLIEN ADDITION ALLIGATOR MIX REGINNING GRAMMER DECIMALS 1 DIVISION 1 EARLY LEARNING FUN EARLY READING FACEMAKER DIVISION	3.95	000000 00000 04000	11.95	****	(7-10) (8-10) (8-9) (3-6) SPEECH REOD
EARLY LEARNING FUN FUN LEARLY LEARNING FOR SITION SITIONS ARCHMAKEN DISTIONS AFORD THE SOLUTIONS AFORD THE SOLUTION SITION SITIO		9.0000000000000000000000000000000000000	11.955555 11.955555 11.995	**	(12-14) (11-14) (10-14) (12-14) (5-6)
MILLIKEN SUBTRACTION MINUS MISSION MULTIPLICATION 1 MULTIPLICATION 2	7.95		6.95 6.95 9.95	***	(B-10) (B-10) (10-12)
NUMBER MAGIC NUMBERATION 2 READING FLIN READING FON READING RALLY READING RALLY READING RALLY READING ROUNDY	14.95	999999999999999999999999999999999999999	9.95 11.95 11.95	**** **** ****	(10-12) (11-12) (7-8) (8-9)
READING RALLY READING ROUNDUP SCHOLASTIC SPELLING 5 SPACE JOURNEY STAF GAZER T II III	4.95 8.95	7.95 9.95 39.95	11.95	***	(9-10)
STORY MACHINE " ""		9.95	11.95	****	(5-9)



THE INTENT HERE IS TO HELP THOSE OF YOU IN THE WEST PENN 99'ERS AS WELL AS ANY IN THE USER GROUP COMMUNITY TO GET STARTED IN THE CONSTRUCTION AND INSTALLATION OF THE BOARD. I WILL TRY TO ADDRESS SOME OF THE PITFALLS AND GIVE SOME HINTS THAT MAY BE HELPFUL. I HOPE THAT YOU REALIZE THAT EVEN THOUGH ERIC ZENO HAS HAD THIS BOARD IN DESIGN FOR ABOUT A YEAR NOW, HE LIKE MOST OF US, IS DOING THIS FOR YOUR BENIFIT, AND WILL NOT QUIT OUR JOBS TO MAKE A LIVING ON TI USERS.

FIRST, THE BOARD DOES HAVE ONE ERROR IN THE TRACE LAYOUT, AND THAT IS THE DATA BUS ON THE CLOCK CHIP U12. MOST OF YOU WILL NEVER USE THIS CIRCUIT, AND THOSE OF YOU THAT DO, SHOULD BE ABLE TO INSTALL THE SIMPLE INVERSION OF THE EIGHT DATA LINES. 1.E.: REVERSE THE PINS 15 THROUGH 22 UNDER THAT CHIP. I FEEL THAT THIS SHOULD STOP NO ONE FROM BUYING AND

USING THE BOARD.

SECONDLY, THE TRACES ARE SMALL AND TIGHT IN AREAS THAT WILL GIVE A NOVICE FITS. DON'T

BUILD IT YOURSELF IF IT LOOKS TO TIGHT FOR YOU AND YOUR EQUIPMENT.

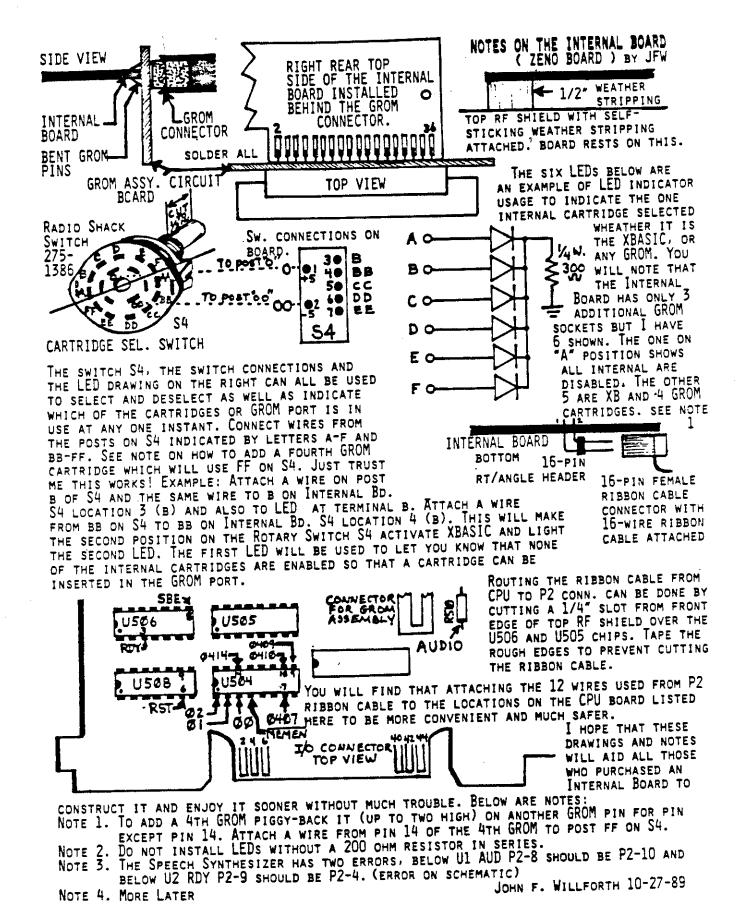
THIRDLY, THE INITIAL INSTRUCTIONS ARE BRIEF, AND INADEQUATE FOR MOST OF YOU, THAT IS WHY I'M INCLUDING THESE TWO PAGES IN THE NEWSLETTER. YOU NEED HELP NOW! I HAVE BUILT TWO AND SINCE I DID THEM WITHOUT INSTRUCTIONS, I FEEL THAT YOU SHOULD DO MUCH BETTER WITH A

DECIDE WHAT PORTION YOU WISH TO BUILD FIRST. ATTEMPT AND GET ONE CIRCUIT WORKING AT A LITTLE HELP. TIME. DO NOT FULLY SOCKET THE ENTIRE BOARD. SOCKET ONLY THE CIRCUIT YOU WILL NEED FIRST, SUCH AS THE 32K CIRCUIT. MAKE UP THE HARNESS FROM P2 TO THE CPU BOARD, SOLDER THE BOARD TO THE GROM CONNECTOR (SEE PAGE 6), AND BEFORE YOU PLUG IN PZ POWER UP THE CPU. IF ALL SEEMS WELL, THEN PLUG IN P2, THEN PLUG IN THE 32K MEMORY CHIP (FOR EXAMPLE). IF ALL IS STILL WELL, THEN RUN A MEMORY TEST BY LOADING A PROGRAM THAT USES EXPANSION MEMORY OR BY RUNNING A MEMORY DIAGNOSTIC. IF A STEP FAILS, DON'T GO ON , BUT GO BACK AND CHECK FOR A P2 CONNECTOR

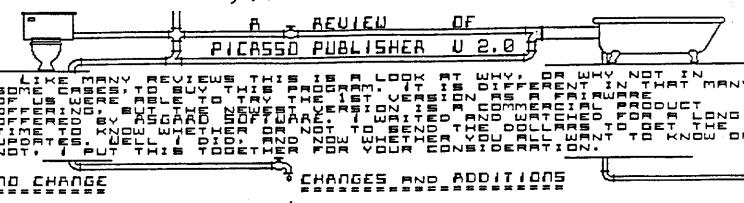
SHORT OR CHECK TO SEE IF P2 HARNESS_IS WIRED CORRECTLY. HERE IS ANOTHER AREA OF CONFUSION. THE P2 CHART ON P. 7 OF ERIC'S INSTRUCTIONS DOESN'T ADHERE TO THE PIN PROTO-COL FOR THE CONNECTOR, THEREFORE USE THE CHART AT THE RIGHT, AND ON THE ASSEMBLY DRAWING ON P. 9 OF INSTRUCT-THE RIGHT ALSO. THIS WILL PROVIDE YOU WITH A MEANS TO ASSEMBLE A 16-WIRE HARNESS WITH A 16-PIN RIBBON CABLE CONNECTOR TO MATE WITH A 16-PIN DOUBLE ROW HEADER AND HAVE EVERYTHING COME OUT SO THAT THE WIRES ARE IN ORDER AND EASY TO COUNT AND MATCH CONVENTION.

THE SPEECH SYNTHESIZER SCHEMATIC HAS SEVERAL ERRORS INCLUDING CR1 IS SHOWN BACKWARDS, THE ANODE SHOULD GO TO GROUND, AUD P2-8 SHOULD READ P2-10 (UNTIL YOU MAKE CORRECTIONS TO P2 CONN. CHART) AND RDY P2-9 SHOULD READ P2-4 AGAIN UNTIL YOU CHANGE THE P2 CONN. CHART. CR1 AND C2 MUST BE INSTALLED WITH CORRECT POLARITY OBSERVED SO TO HELP, PUT A PLUS SIGN TO LEFT OF C2 ON ASSEMBLY DRWG. AND ALL _ REPRESENT THE CATHODE SIDE OF DIODES HERE.

		UNNEC I	
(CORRECTE	D VERS	ION)
P2	TERM	USE	CPU CONN.
1	0407	32K	U504 P. 7
2	00	CK/CA	U504 P. 3
3	ŘĎY	\$PCH_	U506 P. 3
4	01	CK/CA	U504 P. 2
5	SBE	SPCH	U505 P. 8
6	102	CK/CA	U504 P.
7	IRST	SPCH	U508 p. 6
8	SPARE		
ă	AUD	SPCH	R510 Right
ΤĎ	MEMEN-	CK/CA	U504 p. 4
11	SPARE		
112	10414	32K	U504 P.14
113	ISPARE		
14	10410	32K	U504 ₽.10
115	SPARE		
16	0409	32K	U504 p. 9



9T9 - Page 13



<u>DO CHANGE</u>

THE RELEASE OF THE DESCRIPTION OF THE PROPERTY OF THE PROPERTY

LSTR. ANDREWS.... THANKS FOR TOUR TIME, STEPHEN

PRODUCED AND PRINTED WITH PICASSO VZ.O RUDNO WITH IT'S UTILITIES

```
50 REM WORDSFARC runs out of XB. Geneve users may want to use GPL 5 to speed pro
  cessing
100 REM
                                         * WORD SEARCH GAME BY CHARLES STERNBERG--TI 99/4 EDITON *
THE SCREEN PRINT HAS BEEN COMPRESSED SO IT WILL FIT O
USE THE PROG WITHOUT A
PRINTER, CHANGE LINE 970 TO 'PRINT LS(I,J);" ";' L
                                                                                                                                                                                                                                                         WILL FIT ON LARGER PUZZL
  110 REM THE
ES. IF YOU USE
                                                                                                                                                                                                                                                                                                 LINE 1060 TO'PR
  120 RIM PRINTER, CHANGE LINE 970 TO 'PRINT LS(I,J);" ";' LINE INT::'.
130 CALL CLEAR
140 INPUT "DO YOU WISH COPY OF PUZZLE? (PRINTER ATTACHED) Y OR N>":C$
150 CALL CLEAR
160 PRINT " **WORD GAME**": :" (LIKE WORD SEARCH)": : : :
                   RANDOMIZE
   170
   170 RANDOMIZE

180 REM

190 REM++-DATA INITIATION__

200 DIM LS(20,20)

210 DIM WS(20)

220 DIM AS(26)

230 AS(1)="A"

240 AS(2)="B"

250 AS(3)="C"

260 AS(4)="D"

270 AS(5)="E"

280 AS(6)="F"
                                                                                                                                                                                                 840 REM---TERMINATION POINT---
850 INPUT "WANT TO PLAY AGAIN(Y OR N)":BS
860 IF BS="Y" THEN 490
870 PRINT "THANKS FOR PLAYING, BYE": ::
                                                                                                                                                                                                                                            "THANKS FOR PLAYING, BYE": : : :
                                                                                                                                                                                                                  STOP
                                                                                                                                                                                                 880
                                                                                                                                                                                                890 REM---PUZZLE PRINT ROUTINE---
900 IF C$<>"Y" THEN 920
910 OPEN #1:"PIO"
920 FOR J=1 TO R
930 FOR I=1 TO C
   270 A$(5) = E

280 A$(6) = "F"

390 A$(7) = "H"

300 A$(9) = "H"

320 A$(10) = "H"

320 A$(11) = "E

330 A$(12) = "E

340 A$(12) = "E

350 A$(13) = "M"
                                                                                                                                                                                                940 FUN 1=1 10 0

940 F=264

950 TONE=F*1.059463094^(INT(RND*24)+1)

960 CALL SOUND(50, TONE, 20)

970 PRINT L$(I,J);

980 IF C$<>"Y" THEN 1030

990 IF I<>1 THEN 1020

1000 PRINT #1:TAB(10);L$(I,J);" ";
350 AS(12)="L"

350 AS(13)="M"

370 AS(14)="N"

370 AS(15)="0"

380 AS(16)="P"

390 AS(17)="Q"

400 AS(18)="R"

410 AS(18)="S"

420 AS(21)="T"

430 AS(21)="V"

450 AS(23)="V"

450 AS(24)="X"

470 AS(25)="Y"

170 AS(25)="Y"

170 AS(25)="Y"

170 AS(25)="Y"

170 AS(25)="Y"

170 AS(25)="Y"

170 AS(27)="Y"

170 AS(27)="Y"
                                                                                                                                                                                                  1000 PRINT #1: TAB(10); L$(I,J); " ";
                                                                                                                                                                                                 1010 GOTO 1030
1020 PRINT #1:Ls(I,J);" ";
1030 NEXT I
                                                                                                                                                                                                                      IF Cs<>"Y" THEN 1060 PRINT #1:
                                                                                                                                                                                                  1040
                                                                                                                                                                                                  1050
                                                                                                                                                                                                                      PRINT
                                                                                                                                                                                                  1060
                                                                                                                                                                                                  1070 NEXT J
                                                                                                                                                                                                 1080 FOR I=1 TO 500
1090 NEXT I
                                                                                                                                                                                                 1100 IF Cs<>"Y" THEN 1130
1110 PRINT #1: : : :
1120 CLOSE #1
1130 RETURN
                                                                                                                                                                                                  1140 REM---WORD BREAKDOWN ROUTINE---
                                             "WANT TO TITLE YOUR PUZZLE? (ENTER TITLE OR 'NO') >":T$
    520
    530 INPUT "ENTER # OF COLUMNS >":C
540 IF C<=20 THEN 570
550 PRINT "# TOO LARGE"
560 GOTG 550
   500 GOIG 500

570 INPLT "ENTER # OF ROWS

580 IF R<=20 THIN 610

590 PRINT "# TOO LARGE"

600 GOIG 570

610 INPUT "ENTER # OF WORDS

620 IF N<=20 THEN 650

630 PRINT "# TOO LARGE"

640 GOIG 610
                                                                                                                                          >":R
    640 GOIO 610
650 FOR J=1 TO C
660 FOR J=1 TO R
670 LS(I,J)="."
680 NEXT J
690 NEXT I
                                                                                                                                                                                                                                                                                                                                                                                  Pattack
     700 FOR K=1 TO N
710 INPUT "ENTER WORD >":WS(K)
   710 INFO 720 REM
720 REM
730 GOSUB 1140
740 NEXT K
750 PRINT : : :
760 INPUT " I'LL SHOW YOU WHERE I'VE HIDDEN THE WORDS IF YOU SAY PLEASE >":GS
770 PRINT : : : :
760 INFO THE TOTAL SHOW YOU WHERE I'VE HIDDEN THE WORDS IF YOU SAY PLEASE >":GS
                                                                                                                                                                                                                                                                    Fortunately the computer virus did
                                                                                                                                                                                                                                                                     no harm to our records. It was immediately
                                                                                                                                                                                                                                                                    devoured by all the bugs in our programming.
                    FRINT
      810
      820
```

830 GOSUB 900

```
AEM -RUBBLE SORT TO ARANGE WORD LIST ALPHABETICALY-OR I=1 TO N-1
                                                                                                                                  X2,X1+(J-1)*Q)="." THEN 1180
X2,X1+(J-1)*Q)<>SEGS(WS(K),I,I)THEN 1180
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               EN-PRINT TITLE TO PRINTER AND WORD LIST-
F CSC>"Y" THEN 2160
                                                                                                                                                                                                                                            0 REM --- PILL OF REMAINING POSITIONS---
0 FOR 1=1 TO C
0 FOR J=1 'FO R
10 IF LS(1,J)<>"." THEN 1980
3 Z1=(RND*, 26+,01)*100
3 LS(1,J)=A$(INT(Z1))
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              LS (X_2^2 + 1^+ (0^+, X_1^+)^+ = SEGS(WS(K), I+1, I)
NEXE 1
                                                                                                                                                                                                    1.5(X^2,X1+1^*Q) = SEG$(W$(K),I+1,1)
NEXT 1
                                                                                                                                                                                                                                                                                                                                                                                             1+1)>=W$(I)THEN 2070
=W$(1+1)
                                                                                                                                                                                                                  .s(X2,X1)=SEG$(W$(K),1,1)
                                                                                           $(Y2, V1) = SEG$(W5(K), 1,1)
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             *WORD LIST*"
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         N`#1:"PIO"
TS="NO" THEN 2140
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 F C$<>"Y" THEN 2280
RINT #1:
LOSE #1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CALL CLEAR
PRINT "WORD LIST";
FOR K=1 TO N
                                                                                                                                                                                        FOR 1=1 TO 1.0-1
                                                    30F 1=1 TO 1,0-1
                                                                             <del>-</del>
                                                                                          5000
                                                                                                                     5 0 0
81
81
                                                                                                                                                                            1876
                                                                                                                                                                                                       3330
                                                                                                                                                                                                                                1988
1918
1928
1938
1948
                                                                                                                                                                                                                                                                                                                                                                    2000
                                                                                                                                                                                                                                                                                                   026
                                                                                                                                                                                                                                                                                                                 1966
1976
1986
                                                                                                                                                                                                                                                                                                                                                          500
                                                                                                                                                                                                                                                                                                                                                                                                  2020
                                                                                                                                                                                                                                                                                                                                                                                    2010
                                                                                                                                                                                                                                                                                                                                                                                                                            2040
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            \hat{x}_{2+(I-1)}^*(0, x_1+(I-1)^*0)="." THEN 1650 x_2+(I-1)^*(0, x_1+(I-1)^*0)<>>segs(ws(K), I, I) THEN 1180
                                                                                                                                                                                                                                                                                                                                              ITS
USER-HOSINE
                            F=T+1
IF T<100 THEN 1240
PRINT "1 COULDN'T PIT THE WORRS IN - SORRY, TRY AGAIN"
                                                                                                                                                                                                                                                                                                                       EGAD!
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 \hat{X}_{2+}^{+}(\underline{1-1})^{*}00, X1)="." THEN 1750 X_{2+}^{+}(\underline{1-1})^{*}00, X1) <> SEGS(WS(K), I, I) THEN 1180
                                                                                                                                                                                                                                                                                                                        REM___RANDOM SELECTION OF START POINT ---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     21=(R0*RND/100+.01)*100

22=(C0*RND/100+.01)*100

X1=(NT(Z1+P*L0)

X2=INT(Z2+P0*L0)

REM---ENTRY OF WORD IN THE PUZZLE---

IF D=1 THEN 1820

IF D=0 THEN 1720
LOFLEN(WS(K))
REM---RANDOM SELECTION OF DIRECTION---
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         OR I=1 TO L0-1
,$(X2+1*Q0,X1+1*Q)=SEG$(W$(K),I+1,1)
EXT I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              $(X2,X1)=SEG$(W$(K),1,1)
                                                                                                                                                                                                                                                                       F RND<.75 THEN 1390

= 1

F RND</br>
THEN 1410
                                                                                                                                                                           F RND<-.5 THEN 1320
                                                                                                                            =-1
F RND<=,5 THEN 1290
                                                                                                                                                                                                                                                                                                                                                                                                                        | F D<=1 THEN 1510 | R0=R-L0 | CU=C-L0 | IF CO<>C THEN 1530 | IF CO<>C THEN 1530 | CO</br>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     0=0
F RØ<>R THEN 1550
                                                                                                                                                                                                                                            F QO<>1 THEN 1370
                                                                                                                                                                                                                                                                                                                                                                                      (0=R-L0
|F D<>0 THEN 1480
|W=C-L0
                                                                                                                                                                                                                 1F Q<>1 THEN 1350
                                                                                                                                                                                                                                                                                                                                                                       P D<>1 THEN 1460
                                                                                0000
                                                                                                                                                                                                                                                                                                                                              )=0;
                                                                                                                                                                   )0=-1
                                                                                                                                                                                                                                                               <u>`</u>!/=(}.
                                                                                                                                                                                              101
                                                                                                              10
                                                                                  03.7
                                                                                                                                                                               (10)
                                          206
                                                                                                250
                                                                                                                           286
286
298
298
298
                                                                                                                                                                                                                                                                 200
```

1990 PROGRAMMING CONTEST

FOR THE TEXAS INSTRUMENT TI-99/4A
COMPUTER
AND
FOR THE MYARC GENEVE / 9640

The CHICAGO'S TI-99/4A USERS GROUP is having a programing contest. And what happened is someone said that we should get it going early the next time. (ME!) Well, I got the contest to run the next time. Here is the run-down!

START NOW.

Last entry accepted on 04-01-1990. JUDGED IN APRIL 1990. WINNERS ANNOUNCED AT THE MAY, 1990 CHICAGO'S USERS GROUP MEETING. PRIZES WILL BE:

1ST PRIZE = \$100.00 SECOND PRIZE = \$75.00 THIRD PRIZE = \$50.00.

FORTH to TENTH PRIZES WILL BE A COMPLETE COPY OF ALL ENTRIES! (NOW!) THINK ABOUT IT! FORTH to TENTH PRIZES WILL PROBABLY BE BETTER THEN THE FIRST THREE PRIZES. NOW IF THAT AIN'T SOMETHING. I'M GOINS FOR MORE THEN 200 ENTRIES FROM ALL OVER THE WORLD. IN ANY LANGUAGE THAT CAN BE USED, LOGO, ASSEMBLY, FORTH, BASIC, EXTENDED BASIC, C, P, 6, PLOTER, SUPER FORTH, SST, ASPIC, PASCAL & etc.. NOW IF THAT AIN'T SOMETHING.

Did I miss any of them? Any language that the computers can use, With or without any cartridge. (MINIMEM - TE-II - ADVENTURE - TUNNELS OF DOOM - SUPERCART) Well, If I can't review them, I'll get help.

The reviews will be in the June newslettr. All entries will be reviewed and commented on and numbered. No matter how large or small any program is, it will be entered.

Any age is acceptable. I do not want to know any ages. (It would make me look bad that a 7 year old kid can do better then I can.) In fact, My kid is better then I am in some programing. "Back to the programing contest!"

As soon as you are done reading this article, Go write a program! Get started NOW. When you are done with your program, Then read the rest of the newsletter. All entries will become the property of the CHICAGO'S USERS GROUP LIBRARY. And will become part of the library.

Programs should be coming in from all over the world. AUSTRALIA, CHINA, SOUTH AMERICA, NORTH AMERICA, EUROPE, &AFRICA. There are programers and users all over the world. Any and all entries will be mailed to me at my home or to THE CHICAGO USERS GROUP. To my attention OR, If you wish: I have a 1200 band MODEM. VOICE first? I'LL GIVE ALL THAT INFORMATION AT THE END OF THIS.

Now just a word on getting you off your duff. There are some people who tell me that I ain't got a chance of getting more then twenty programs. Well, I have more confidence in the people who still play and use our computers. Show them all that we are still alive, well and still loving our toy computers. There is no limit of how many entries you can put in. Send them in on DISK (S.S.S.D.) or TAPE. Or 1200 baud MODEM!

The CHICAGO'S TI-99/4A USERS GROUP BBS PHONE NUMBER is: 1-312-862-0182 or 1-708-862-0182

MY COMPUTER phone number is 1-312-755-0051 or 1-708-755-0051.

There will be a change in the area code for some of the phones in the CHICAGO area starting on NOVEMBER 1, 1989, (to the 708 area code). That is in case you want to modem your program in.

Now, so that you can mail or bring it in:

TONY ZLOTORZYNSKI

OR

CHICAGO TI USER'S BROUP

3607 WALLACE

P.D.BOX 578341

STEGER, IL 60475 U.S.A.

CHICAGO, IL 60657 U.S.A.

ATT. PROGRAMMING CONTEST

Att. PROGRAMMING CONTEST

P.S. I think this is a chance for you to win a good mess of programs for yourself or for your USER GROUP.

Thanks All! TONY ZLOTORZNSKI

DOCUMENTATION FOR CASSETTE INDEX UTILITY VERSION 1.0 (XE) CREATED BY MARRY BRASHEAR OF THE VESTERN NY 93'ERS MODIFIED (V.2.0) BY MICKEY SCHMITT OF THE VEST PENN 99'ERS

PROGRAM NAME: CS1*INDEX (SEE LIBRARIAN)

PROGRAM DOCS: CS1*DOCS (DOCUMENTATION)
PROGRAM FILES: MOCKFILE1 AND MOCKFILE2 (BASIC SET-UPS)

THIS EXTENDED BASIC PROGRAM WILL ALLOW YOU TO PRINT OUT A NEAT LITTLE INSERT FOR YOUR CASSETTE TAPES, JUST LIKE THE ONES THAT COME WITH THEM.

ALL PRINTER CODES ARE EFSON COMFATIBLE. YOU MAY WISH TO MODIFY PROGRAM LINE 570 TO OPEN YOUR PARTICULAR PRINTER. CURRENTLY THIS PROGRAM OPENS THE FOLLOWING PRINTER DEVICE: (RS232/2.DA:8.BA:9600).

WHEN YOU FIRST BOOT UP THE PROGRAM, YOU'LL BE ASKED IF YOU WANT TO USE FILES OR INFUT THE INFORMATION DIRECTLY. (MORE ON THIS LATER). YOU WILL THEN BE ASKED FOR YOUR FULL MAME, FOR GOOD REASON. THAT LITTLE FOLD OVER THE OTHER SIDE OF YOUR TAPE WILL BE PUT TO GOOD USE BY STATING WHO THE TAPE BELONES TO. (THE DEFAULT SPACE LIMIT IS 28 CHARACTERS).

NEIT YOU WILL BE ASKED IF YOU WANT ONE OR BOTH SIDES OF THE TAFE INDEXED. (THE DEFAULT IS 2 FOR BOTH SIDES).

YOU WILL THEN BE ASKED FOR THE CASSETTE TITLE (THE DEFAULT SPACE LIMIT IS 25 CHARACTERS), AND ANY SPECIAL INFORMATION THAT YOU MAY WISH TO RECORD. (AGAIN, THE DEFAULT SPACE LIMIT IS 25 CHARACTERS).

FINALLY, YOU WILL BE ABLE TO INFUT YOUR CASSETTE PROGRAMS, USING ANY CODING SYSTEM YOU MAY PREFER. (THE DEFAULT SPACE LIMIT IS 27 CHARACTERS).

SHOULD YOU MAKE A MISTAKE WHILE ENTERINE YOUR PROGRAM DATA JUST HIT THE (ENTER KEY) AT A BLANK LINE AND YOU WILL THEN BE PROMPTED BACK TO YOUR PREVIOUS ENTRY.

WHEN YOU HAVE COMPLETED ALL OF YOUR PROGRAM DATA IMPUTS, JUST TYPE (Q) AND HIT THE (ENTER KEY). (NOTE: THE (Q) WILL NOT APPEAR ON YOUR PRINTED INSERT).

LAST, YOU WILL BE ASKED IF YOU WOULD LIKE TO FILE OR PRINT YOUR INPUTS. (THIS SPECIAL FEATURE WAS INCLUDED BY HARRY SO THAT PEOFLE WITHOUT PRINTERS COULD FILE THE INFORMATION TILL THEY COULD BORROW A PRINTER OR CON A FRIEND INTO PRINTING THE INSERTS).

MOTE: IF YOU HAVE FILED INFORMATION STORED ON YOUR DISK YOU COULD JUST TYPE (F) AT THE FIRST PROMFT, WHICH WOULD PROMFT YOU FOR THE FILENAME YOU HAVE YOUR DATA STORED UNDER. DNCE YOU HAVE ENTERED YOUR FILENAME, JUST SIT BACK AND WATCH YOUR PRINTER BO INTO ACTION. (PROVIDED YOU DID REMEMBER TO TURN YOUR PRINTER ON).

YOU MAY ALSO MAKE MULTIPLE COPIES BY SIMPLY REPRINTING. THE "BUTTONS" ARE JUST FOR FUN, AND YOU WILL MAYE TO HOLD YOUR KEY PRESSES LONGER BECAUSE OF THEM.

SPIRIT OF 99

(Thanks to West Penn 99'ers
US and Mickey Schaitt

123456789012345678901234567 2		1		10E 1
\$1DE 1: 1234567890123456789012345 123456789012345676901				
SIDE 2: 1234567690123456789012345 173456789012345678901	2345	1: 12345678901		
THIS TAPE IS FROM THE LIBRARY OF 1234567890123456789012345				

HOCKFILE1

SIDE 1	: \$1DE 2
PROGRAM 001 - COUNTER 000 B PROGRAM 002 - COUNTER 010 B PROGRAM 003 - COUNTER 020 B PROGRAM 004 - COUNTER 030 B PROGRAM 005 - COUNTER 040 B PROGRAM 006 - COUNTER 050 B PROGRAM 007 - COUNTER 070 B PROGRAM 009 - COUNTER 070 B PROGRAM 009 - COUNTER 090 B PROGRAM 010 - COUNTER 100 B PROGRAM 011 - COUNTER 110 B PROGRAM 013 - COUNTER 120 B PROGRAM 013 - COUNTER 130 B PROGRAM 015 - COUNTER 140 B	PROGRAM 016 - COUNTER 000 B PROGRAM 017 - COUNTER 010 B PROGRAM 019 - COUNTER 020 B PROGRAM 020 - COUNTER 040 B PROGRAM 020 - COUNTER 040 B PROGRAM 022 - COUNTER 060 B PROGRAM 023 - COUNTER 070 B PROGRAM 025 - COUNTER 096 B PROGRAM 025 - COUNTER 100 B PROGRAM 026 - COUNTER 110 B PROGRAM 027 - COUNTER 110 B PROGRAM 029 - COUNTER 130 B PROGRAM 029 - COUNTER 130 B PROGRAM 029 - COUNTER 140 B

SIDE 1: WEST PENN 99'ERS CASSETTE LIBRARY PROGRAMS 001--015
SIDE 2: WEST PENN 99'ERS CASSETTE LIBRARY PROGRAMS 015--030

THIS TAPE IS FROM THE LIBRARY OF THE WEST PENN 99'ERS LIBRARY

MOCKFILE2

```
100 | ****************
110 !
120 !CASSETTE INDEX UTILITY*
            BY
130 !
       HARRY BRASHEAR
140 !
       WESTERN NY 99ERS
150 !
160 !
170 ! ****************
180 !
       VERSION 2.0 (XB) *
190 !
200 ! ENHANCED AND MODIFED *
210 !
             BY
```

MICKEY SCHMITT * 220 ! WEST PENN 99'ERS . 230 ! # JUNE 13 1989 240 1 250 ! 260 | **************** 270 ON WARNING NEXT :: CALL MAGNIFY(3) 280 GOTO 290 :: OPTION BASE 1 :: A\$, A1\$, A2\$, AN\$, F\$, FN\$, L s, L1s, Ns, PF\$, T1\$, T2\$:: I, J, K, S, S1, S2, SS :: CALL CHAR :: CALL CLEAR :: CALL COLOR :: CALL SCREEN :: CALL SPRITE :: CALL KEY :: DIM \$IDE1\$(18), SIDE2\$(18):: !@?-290 ! 300 CALL CLEAR :: CALL SCREE N(15):: CALL CHAR(132, "3F60C F9FBFBFBFBFBFBFBF9FCF603FF Ce 6F3F9FDFDFDFDFDFDFDF9F30 6FC") 310 CALL SPRITE(#1, 132, 2, 160 .47):: CALL SPRITE(#2.132.2. 164,119):: CALL SPRITE(#3,13 2, 2, 160, 190) 320 CALL COLOR(13, 7, 15):: CA LL CHAR(128, "000000FFFF", 129 "@@@@FF@@FF@@FF"):: L\$=RPT\$ (CHR\$(128), 28):: L1\$=RPT\$(CH R\$(129),28) 330 DISPLAY AT(24,3): "RECORD PLAYBACK DUPE" 340 DISPLAY AT(1,1): "CASSETT E TAPE--INDEX UTILITY":L18: : "WOULD YOU LIKE TO PRINT FROM": : "FILES OR DIRECT INP UT? F/D D" 350 ACCEPT AT(7, 28) SIZE(-1) B EEP VALIDATE("FD"):F\$:: IF F#="F" THEN 730 ELSE CALL SP RITE(#1, 132, 10, 160, 47) 360 DISFLAY AT(4.1): "PLEASE ENTER YOUR FULL NAME: ":L\$:: ACCEPT AT(7, 1)SIZE(28)BEEP: NS :: DISPLAY AT(8,1):LS 370 DISPLAY AT(4,1): "ENTER N UMBER OF TAPE SIDES: 2":L\$:: ACCEPT AT(4,28)BEEP VALIDAT E("12")SIZE(-1):\$\$ 380 DISPLAY AT(4, 1): "ENTER C ASSETTE TITLE: SIDE 1" :: AC CEPT AT(9.1)SIZE(25)BEEP:T18 :: DISPLAY AT(4,1): "SPECIAL INFORMATION: SIDE 1" 390 ACCEPT AT(10,1)SIZE(25)B EEP:A18 400 IF SS=2 THEN DISPLAY ATC 11, 1):L\$ ELSE 420 410 DISPLAY AT(4,1): "ENTER C ASSETTE TITLE: SIDE 2":L\$::

ACCEPT AT(12, 1)SIZE(25)BEEP :T2\$:: DISPLAY AT(4,1):"SPE SIDE 2" : CIAL INFOMATION: : ACCEPT AT(13, 1)SIZE(25)BEE P: A25 420 DISPLAY AT(16, 1)BEEP: "AL L INFORMATION CORRECT? Y/N" 430 CALL KEY(0,K,S):: IF S=0 THEN 430 ELSE IF K=89 THEN 440 ELSE IF K=78 THEN 270 EL SE 430 440 AS="SIDE ONE" :: GO SUB 670 450 FOR I=5 TO 19 :: J=I-4 : : S1=J :: ACCEPT AT(I,2)SIZE (27)BEEP:SIDE1#(J):: IF SIDE 18(J)="Q" THEN 480 ELSE IF S IDE18(J)="" THEN I=I-2 460 IF I(4 THEN I=5 470 NEXT I 480 IF SS=1 THEN 520 ELSE AS ="SIDE TWO" :: GO SUB 670 490 FOR I=5 TO 19 :: J=I-4 : : S2=J :: ACCEPT AT(I,2)SIZE (27)BEEP:SIDE2\$(J):: IF SIDE 2\$(J)="Q" THEN 520 ELSE IF S IDE2\$(J)="" THEN I=I-2 500 IF I(4 THEN I=5 510 NEXT I 520 DISPLAY AT(24, 3)BEEP: " F PRINT" :: CA ILE REDO LL SPRITE(#1.132.2.160.47) 530 DISPLAY AT(24, 10)SIZE(10):" REDO" :: CALL KEY(5.K. S):: CALL SPRITE(#1,132,2,16 0, 47, #2, 132, 2, 160, 119, #3, 132 . 2. 160. 190) 540 IF S=0 THEN 550 ELSE IF K=70 THEN 690 ELSE IF K=80 T HEN 560 ELSE IF K=82 THEN 66 0 ELSE 530 550 FOR I=1 TO 80 :: NEXT I :: CALL SPRITE(#1, 132, 10, 160 . 47, #2, 132, 10, 160, 119, #3, 132 , 10, 160, 190):: GOTO 530 560 CALL SPRITE(#1, 132, 2, 160 , 47, #2, 132, 2, 160, 119, #3, 132, 10, 160, 190) 570 OPEN #1: "RS232/2. DA=8. BA =9600" :: PRINT #1:CHR\$(27); CHR\$(64);CHR\$(27);CHR\$(85);C HR\$(1); 580 PRINT #1:CHR\$(27);CHR\$(4 8); CHR\$(15); RPT\$("-".70): "!" ;TAB(5); "SIDE 1";TAB(35); "!" ;TAB(39); "SIDE 2";TAB(70);"! " :: PRINT #1:RPT\$("-", 70) 590 PRINT #1:"!";TAB(35);"!" ;TAB(70);";" 600 FOR I=1 TO 17 :: IF SIDE

18(I)="Q" THEN SIDE18(I)="" 610 IF SIDE2#(I)="Q" THEN SI DE2\$(I)="" 620 PRINT #1:"! "; SIDE18(I "; SIDE2\$(I); T);TAB(35);"[AB(70);"!" :: NEXT I 630 PRINT #1:RPT\$("-", 70):"! "; T1\$; " "; A SIDE 1: 18; TAB(70); "!": "!"; TAB(70); " 1":"!";" SIDE 2: "; T2\$; " "; A2\$; TAB(70); "!":RPT\$("-" . 70) 640 PRINT #1:"!":TAB(70);"!" . " ! " : " THIS TAPE IS FROM T HE LIBRARY OF "; N\$; TAB(70);" !": "!"; TAB(70); "!": RPT\$("-" 70):: CLOSE #1 650 GOTO 530 660 FOR I=1 TO 15 :: SIDE18(I), SIDE2\$(I)="" :: NEXT I :: T1\$, T2\$, A1\$, A2\$="" :: GOTO 270 670 DISPLAY AT(4, 1): "" :: DI SPLAY AT(1,1): "ENTER PROGRAM NAMES: Q(QUIT)":L\$:TAB(11); AS 680 FOR I=5 TO 19 :: DISPLAY AT(I, 1):")" :: NEXT I :: RE TURN 690 CALL SPRITE(#1, 132, 10, 16 0, 47):: DISPLAY AT(1, 1): "FIL DSK1. " :: ACCEPT A E NAME: T(1,19)BEEP SIZE(10):FN\$ 700 FN\$="DSK1."&FN\$:: OPEN #2:FN\$, SEQUENTIAL, INTERNAL, O UTPUT. VARIABLE 80 710 PRINT #2:N\$:: PRINT #2: T1\$, A1\$:: PRINT #2:T2\$, A2\$ 720 FOR I=1 TO 15 :: FRINT # 2:SIDE1\$(I),SIDE2\$(I):: NEXT I :: CLOSE #2 :: GOTO 530 730 CALL SPRITE(#2, 132, 10, 16 0,119):: DISPLAY AT(7,1):"" :: DISPLAY AT(4.1): "FILE NAM DSK1. ":L\$:: ACCEPT ATC 4,19)SIZE(10):FN\$:: FN\$="DS K1. "&FNS 740 CALL SPRITE(#2, 132, 10, 16 0, 119):: OPEN #1:FN\$, SEQUENT IAL, INTERNAL, INPUT . VARIABLE 80 750 INPUT #1:N\$:: INPUT #1: T18, A18 :: INPUT #1:T28, A28 760 FOR I=1 TO 15 :: IF EOF(1) THEN 780 ELSE INPUT #1:SID E1\$(I), SIDE2\$(I) 770 NEXT I 780 CLOSE #1 :: GOTO 560 790 169+



800 END

A LOT OF FONTS ARE AVAILABLE TO TI-ARTIST AND C.S.G.D. FANS, BUT ONLY IF YOU KNEW WHICH CHARACTERS WERE IN THE FONT, AND WHAT THEY LOOKED LIKE, WITHOUT HAVING TO LOAD THE GRAPHIC PROGRAM AND TYPE THE WHOLE RANGE JUST TO SEE! PETER HODDIE'S FONT WRITER AND GRAPHIC EXPANDER HAVE THE SCAN OPTION, BUT PERHAPS YOU DON'T OWN THEM; AND THEY HAVE A DRAWBACK: ALL CHARACTERS BEING LISTED TOGETHER, THE SYMBOLS AND PUNCTUATION CHARACTERS ARE HARD TO SPOT. SO I WROTE THIS QUICKIE, TO DISPLAY THE CHARACTERS IN FOUR CATEGORIES: UPPER CASE, LOWER CASE, DIGITS, AND OTHERS (SYMBOLS AND PUNCTUATION). " IF PRESENT, IS DRAWN ON THE SCREEN IN ACTUAL SIZE." THE LETTER "A"

THE DIS/VAR 80 FONT FILE IS READ LINE BY LINE; WHEN A SOLE CHARACTER IS ENCOUNTERED IT MEANS "THIS IS THE CHARACTER DEFINED NEXT"; LINE 220 WILL TAKE IT'S ASCII VALUE A, AND THE SUB HC WILL SHOW IT ON THE SCREEN, IN THE APPROPRIATE CATEGORY; IT WILL ALSO BE ADDED TO A STRING FOR THE PRINTOUT. IF THE CHARACTER IS AN "A", THE PROGRAM JUMPS

TO A SUBROUTINE.

To draw the "A", we Linput the next line in the file: in line 320, we extract the TOTAL COLUMNS AND ROWS; WE DON'T NEED THE THIRD VALUE IN THE LINE, "PIXEL JUMP". EACH SUBSEQUENT LINE CONTAINS THE DECIMAL EQUIVALENTS OF THE HEX BYTES FOR ONE CHARACTER DEFINITION, SEPARATED BY COMMAS. THESE VALUES ARE READ AND TRANSFORMED INTO THEIR HEX VALUE BY CALL CBYTE; WHEN THE STRING C\$ IS COMPLETE, WE CALL CHAR A CHARACTER ABOVE 127 AND CALL HCHAR IT IN THE UPPER CORNER OF THE SCREEN (FOR VERY BIG CHARACTERS, COUNTER K REVERTS TO 91 UPON REACHING CHARACTER 142, ALREADY USED FOR THE SCREEN DISPLAY).

WHEN ALL THE FILE HAS BEEN READ, YOU CAN SCAN (A)NOTHER FILE, (P)RINT A LISTING (MINUS THE GRAPHIC "A"), OR (Q)UIT. IF YOU WISH TO GET A GRAPHIC DUMP OF THE SCREEN, WITH THE "A", YOU CAN USE AN ASSEMBLY SCREEN DUMP AT THIS POINT (CALL LOAD THE FILE

BEFORE LINE 150; CALL LINK REPLACES 310-320).

(I CHANGED THIS PARAGRAPH TO REFLECT THE FACT THAT THE PROGRAM LINES TO SCAN C.S.G.D. FONTS ARE ALREADY ADDED. [WOODY]). IN C.S.G.D. FONTS THE "A" WILL NOT BE DISPLAYED, AS I DON'T KNOW YET HOW IT'S DONE! THESE FONTS FOLLOW THE SAME PATTERN: UC ONLY, UC/DIGITS /OTHERS (ALWAYS THE SAME ONES), UC/LC/DIG/OTHERS; THE VALUE A, THE TOTAL NUMBER OF CHAR. IN THE FILE TELLS THE STORY. WHEN YOU WISH TO SCAN A C.S.G.D. FONT YOU MUST ADD THE "/CH" SUFFIX TO WARN TEX

100 REM 88 TI-ARTIST FONTSCA N / L.Dorais, Ottawa U.6> /A pril 1989 110 ON ERROR 430 :: CALL CHA R(142, "000000FF", 143, "007E42 SASASA427E*) 120 Bs=RPT\$(" [".8):: Ls=RPT\$ (CHR\$(142),18):: LD\$=8\$&SE6\$ (L\$,1,12):: L\$#B\$&\$E6\$(L\$,1, 20):: F\$#*1.* 130 60T0 150 :: As,Bs,Cs,DTs ,F\$,LC\$,P\$,SB\$,UC\$,A,C,DT,HB .K.LB,LC,P,R.RS,S,SB,UC.V,I, 140 CALL HCHAR :: CALL KEY : : CALL CHARSET :: CALL ERR ! 150 DISPLAY AT(6,1) ERASE ALL :"UPPERCASE":L\$: :L\$: :"LOWE RCASE*:L\$:L\$: :LD\$:*DIGITS ":LD\$: :LS\$: "OTHERS":CHR\$(14 3)1'=space":L\$1 160 DISPLAY AT(1.1): "SCAN WH ICH FONT?": : "DSK"&F8 :: CAL -L CHARSET :: UCs.LCs.DTs.SBs 170 ACCEPT AT (3,4) SIZE (-12) B EEP:Fs :: Fs='DSK'&Fs 171 IF POS(F\$,*/CH*,6)>0 THE # 605UB 423 :: 60T0 280 180 IF POS(Fs, " F", 4)=0 THEN FS=FSA" F"

190 OPEN #1:F#, IMPUT :: UC,L

E=4 :: DT.SB=12 :: RS=21 ! d

isplay column 200 ! ## scan file ## 210 LIMPUT \$1:85 :: IF EDF(1) THEN 280. 220 IF LEN(80)>1 THEN 210 EL SE A=ASC(B\$)! found a char.(LEM=1) 230 IF A>=65 AND A<=90 THEN CALL HC(8,UC,A,UC\$):: IF A<> 45 THEN 210 ELSE BOSUB 350 : z 6010 210 ! upper case; if A. draw it 240 IF A>=97 AND A<=122 THEN CALL HC(13.LC.A.LCs):: 60TO 210 ! lower case 250 IF A>=48 AND A<=57 THEN CALL HC(17,DT,A,DTs):: 60TO 210 ! digits 260 IF A#32 THEN A=143 ! sna ce shows as a square on scre Ėħ 270 CALL MC(RS.SB.A.SB\$):: I F SB(30 THEN 210 ELSE SB=12 :: RS=22 :: 6070 210 280 CLOSE 01 :: DISPLAY AT(2 4, 2) BEEP: "IAJNOTHER [P]RINT [8]UIT" ! end 290 CALL KEY (3, K, S):: IF \$=0 OR K()65 AND K()81 AND K()8 0 THEN 290 300 IF K=65 THEN FS=SE68 (FS. 4,2):: 60TO 150 ELSE IF K=81 THEN END 310 DPEN #1: "PID" :: B\$="

" :: C\$=CHR\$(14)! print 320 PRINT #1:BSEBSE* FONT: "&C\$45E5\$(F\$,6,10): :B\$4"UP PER CASE: "AUCS: BOL"LOWER C ASE: "MLCS: BSLBSL DIGITS: "EDTS: BSLBSL "OTHERS: "ASBS 330 PRINT 81: ": ": ": :: 50T 9 280 340 : 82 sub draw "A" 88 350 DISPLAY AT(1,19) BEEP: "A) :: LIMPUT #1:A# :: C=VAL(S E6s(As,1,1)):: R=VAL(SE6s(As ,3,1)):: K=127 360 FOR I*1 TO R :: FOR Y*1 TO C :: LIMPUT \$1:A\$:: 5=1 :: C\$=** 370 P=POS(AS, ", ",S):: IF P=0 THEN PULEN (AS)+1 380 V=VAL(SE6\$(A\$, \$, P-\$)):: IF V=0 THEN CS=CS4*00" :: 60 TD 400 390 HB=INT(V/16):: CALL CBYT E(HB,C6):: LB=V-168HB :: CAL L CBYTE(LB, CS) 400 S=P+1 :: IF S(=LEN(AS)TH EN 370 410 CALL CHAR(K.CS):: CALL H CHAR(I,Y+23,K):: K=K+1 :: IF K=142 THEN K=91 420 MEIT Y :: MEIT I :: RETU ŔН 422 ! 11 sub C.S.D.G. 18 423 OPEN #1:F\$, INPUT , INTERN AL, VARIABLE 254 ii IMPUT \$1: 9T9

A.C.P.R 424 IF AK28 THEN 428 ELSE IF A>44 THEN 425 ELSE 426 425 LC5= abcdefgh: jklanopgrs tuvexyz" :: DISPLAY AT (13,2) 426 BT9="0123456789" :: DISP LAY AT (17, 10) : DTS 427 S\$4="10.,"":-" :: DISPLA Y AT(21,11):586 428 UCS="ABCDEFSHIJKLNNOPORS TUVWIYI" :: DISPLAY AT(8.2): LC1 429 EALL HCHAR(21,12,143):: \$84="sp "&\$8\$:: RETURN 430 CALL ERR(I,Y,HB,LB):: IF X=130 THEN ON ERROR 430 :: RETURN 170 tif error is 1/0: go back to accept filename 440 DISPLAY AT (24.1) BEEP: *ER ROR: ":I:" in LINE": LB :: STO P! other errors 450 !BP+ 460 SUB HC (R. Y. A. AS) :: CALL MCHAR(R.I.A):: IF A()143 THE M AS=AS&CHRS(A)ELSE AS="Sp LAS 470 I=I+1 :: SUBEND 480 SUB CBYTE(I,CS):: IF 1(1 O THEN CS=CS&CHR\$(I+4B)ELSE CS=CSECHRS (X+55) 490 SUBEND 20 Page