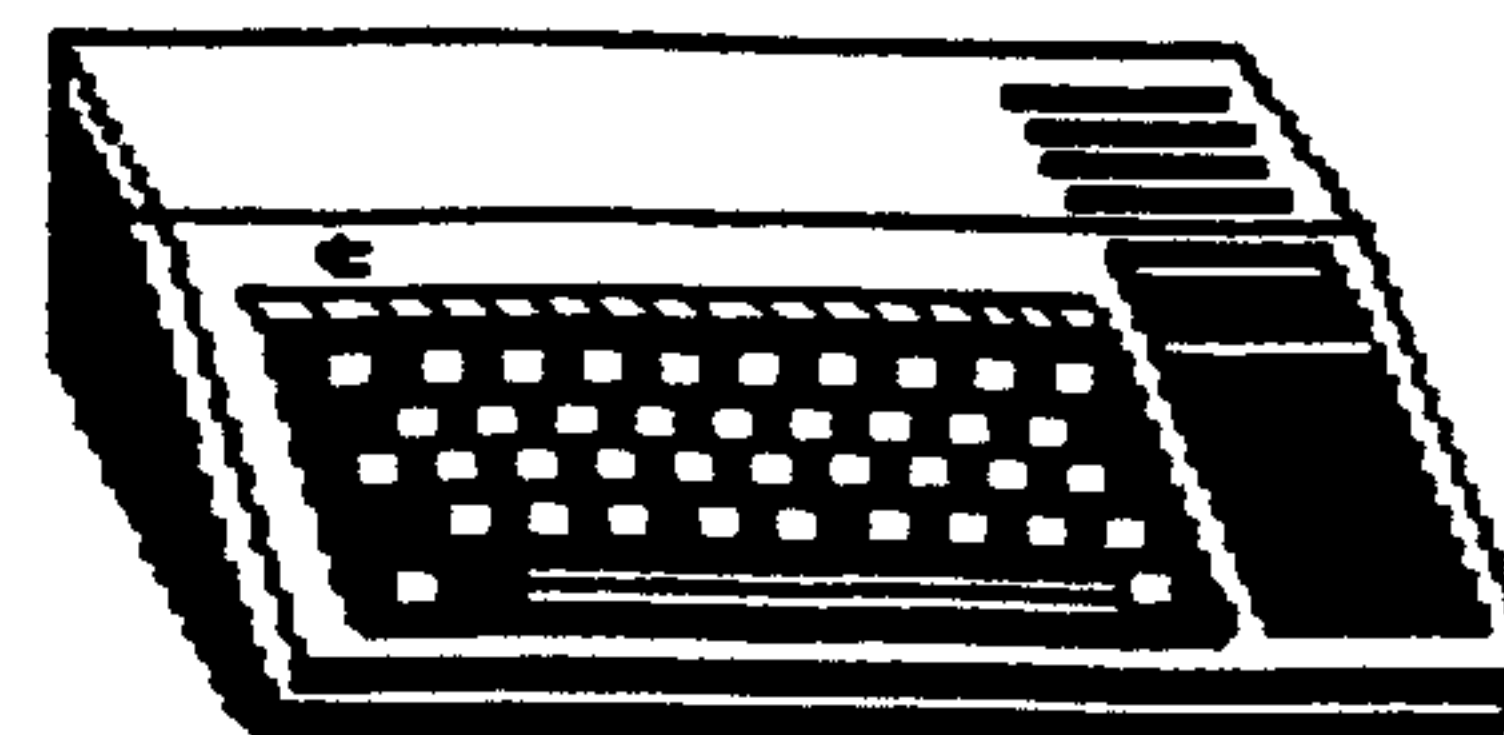




# CLEVELAND AREA

## TI-99/4A USER GROUPS

NOVEMBER 1992



OFFICE	TI-CHIPS	MEETINGS
CO-PRESIDENT	Glenn Bernasek 238-6335	10:00 AM
CO-PRESIDENT	Dinny Stockdale 1345-5239	N. Royalton
TREASURER	Lin Shaw 235-3912	County Library
MEMBERSHIP	John Parken 331-2830	State Rd. SO. of 4172 W. 217th St. Fairview Pk., OH 44126
SECRETARY	Tim Bodemiller 234-4297	Route 82 1/4mi <u>EVERY THIRD SAT.</u>
DISK LIBRARY	Matt Andel 676-9759	NOVEMBER 21,1992
TAPE & MODS	John Parken 331-2830	December 19,1992
HARD COPY	Harry Hoffaan 631-2354	January 16,1993

OFFICE	NORTHCOAST	MEETINGS
CO-PRESIDENT	Ken Gladyszewski 1357-7274	1:30 PM
CO-PRESIDENT	Walt Ryder 921-8223	Euclidian Room
Treasurer	Frank Jenkins 283-8526	Euclid SQ. Mall
MEMBERSHIP	Martin Sooley 1-257-1661	E.260th off I-90 (South)
SECRETARY	Bernie Zuckerman 381-4088	<u>EVERY THIRD SAT.</u>
DISK LIBRARY	Martin Sooley 1-257-1661	NOVEMBER 21,1992
TAPE & MODS	Frank Jenkins 283-8526	December 19,1992
HARD COPY	Dick Alden 1-352-9172	January 16,1993



### From the Editor's Desk:



Hi Tiers,

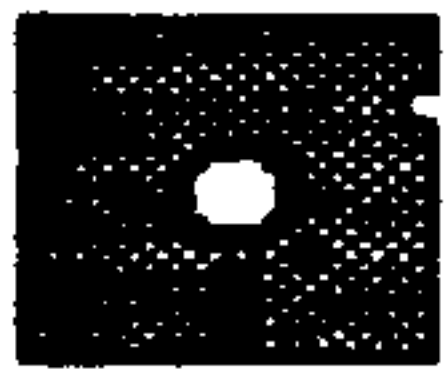
When you read this Newsletter, it will be obvious that Nina and I had a great time at Chicago/Milwaukee. If you think there is too much Harry in this issue, get mad and write an article to keep me from monopolizing!!!

I must apologize to Glenn Bernasek for the delay in putting his "PUBLIC DOMAIN" article in the Newsletter three issues back. There is no excuse for this, and I'm very sorry for my lapse.

There is more on the Chicago/Milwaukee Faires on other pages, so this will be short. Fifteen+ vendors were present, including Recharged Computers (Ron), Eight+ User Groups, including the Dutch TI Users Group from Netherlands with new hardware/software from Europe. Lots of new hardware/software, much of which I didn't see. Seminars all day, again didn't see too many. The most exciting products were the SCSI card, from Bud Mills/Don O'Neil, and "First Draft", from Asgard/Art Gibson. A fantastic update to Art's News Print program. See more in other articles.

This is the first time we have had to look elsewhere for articles, so I found an page written by Jerry Keisler from the Paris 99ers of Texas. He is using Ken Gladyszewski's analog to digital program with great success and plans on expanding it even more. Good going Ken and Jerry!

See you all at the meeting.....



# NORTHCOAST 99ers

By Bernie Zuckerman

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OCT. 17, 1992

The October meeting of the Northcoast TI-99/4A Users Group was called to order by Co-President Ken Gladyszewski at 1:30 P.M. There were 21 members present. Treasurer, Frank Jenkins gave his report showing a balance of \$2785.44 after expenditures of \$159.38 and income of \$112.87. Under old business, Deanna advised that she has disks for the label program previously demonstrated. Harry requested that any articles for the Newsletter should be in his hands the first week after the meeting to be able to get the copy to the printer in time for mailing.

A discussion followed regarding the Cincinnati bulletin board. Larry Kee had received a disk that provides full instructions on how to use the bulletin board which simulates the board and is very helpful.

" ? " received a letter from Great Lakes Consultants who had worked with Howie Winkler on the Howie Ram disk. They advised that there were additional lines of code necessary to use the Ram Disks with the Howie Board and that these will be available. Also they have several ram disk boards that they will sell at a "competitive" price. It was not stated as to whether the boards were complete and ready to use or were kits or bare boards. Ken suggested that the company be contacted for more information and that the group is interested. " ? " has a copy of the instructions for assembly and the schematic. He also has received information that a control card for a hard drive is coming out, the SCSI Hard Drive Controller for the 994A and the Myarc, no price stated, but connectable to a Winchester Drive. Les Kee stated that Bud Mills is coming out with a SCSI controller for a hard drive but no price stated. TI Chips is planning to purchase a ram disk.

Harry announced that the TI Chips Group wants to put on a demo next month on communicating with a BBS but do not

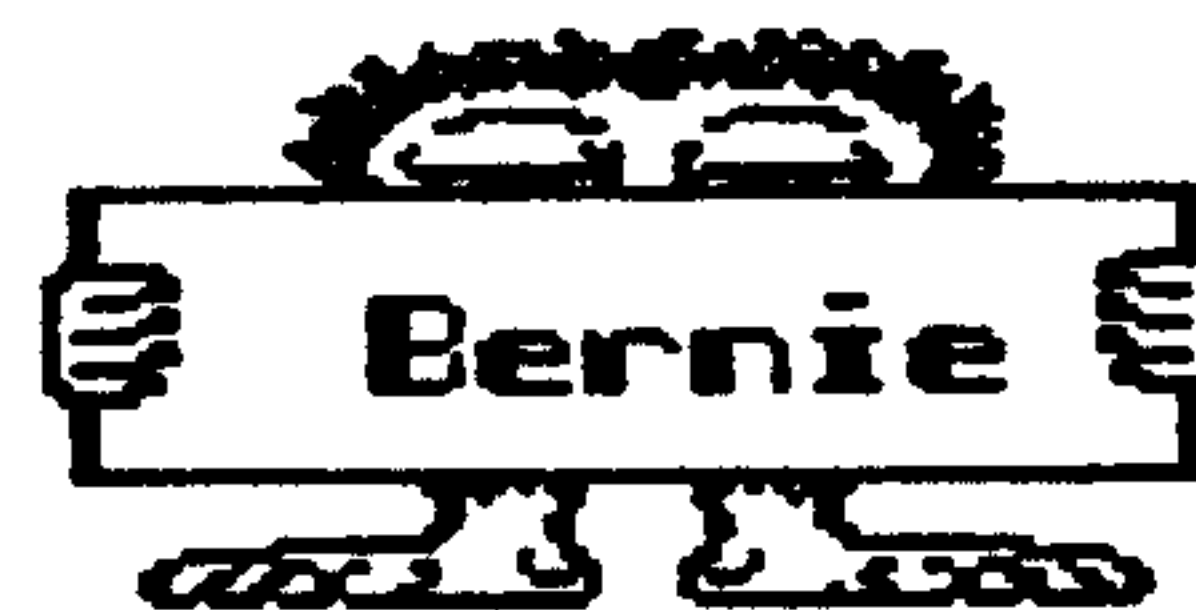
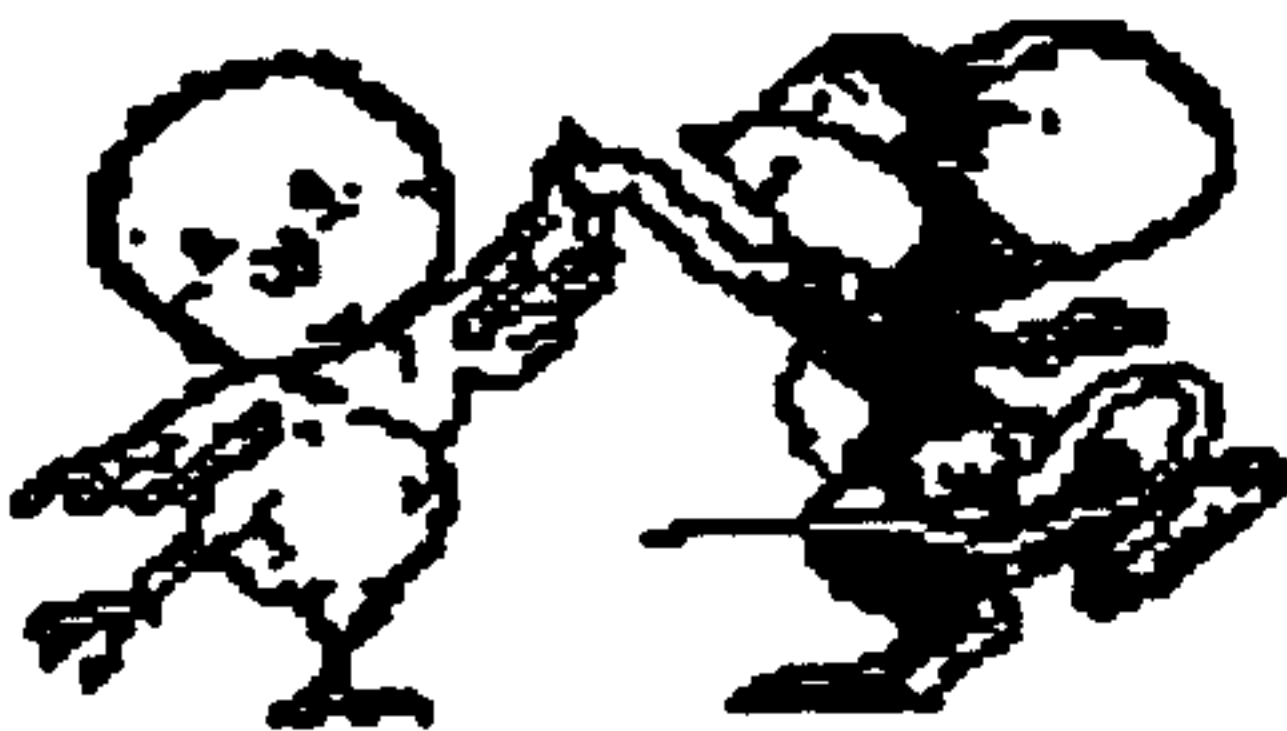
have a computer program. Deanna said that the library has such a program. It was also suggested that if a telephone line can be brought in to the room the demo would be easier.

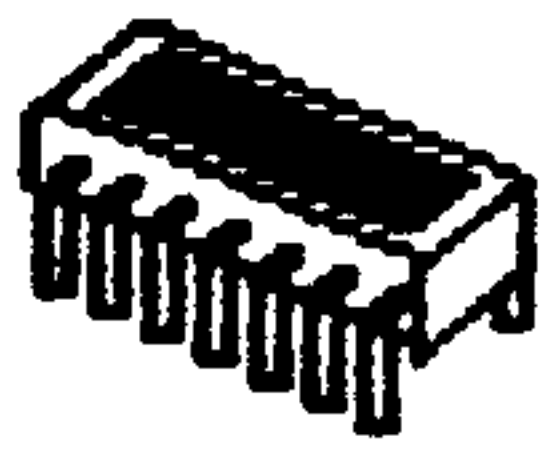
There will be three members who are going to Chicago to the TI Faire. Walt Ryder requested any information on articles in Micropendium on the Ram disk. Les said that he has an index of the Micropendium articles that has been kept up to date (yearly); he has converted it to DV-80 files so that it can be easily printed out. An updated version of TI Writer 4.3 as well as some other updates was received from Bud Mills; it also has REDISK-IT in an Arc'd file. A copy of the disk was made for the library. This ended the regular business session.

The first demo was by Earl Blewitt who presented a Wheel of Fortune program (part of the Terrware disk in the library) with the help of Ken, Wes R., and Bruce R. He also showed how your own puzzle lines can be introduced into the program. Then he demonstrated a Solitaire program (on Disk 2232 in the library) which had a display very similar to the cards as actually played. Ron Minadeo then demonstrated another Solitaire program (not in the library, (contact Ron) both as written and as he modified it. Next was a dice game demo by Bruce Rodenkirch called Challenge and which was downloaded from the Cincinnati BBS (not yet in our library). The game caused much comment since, when playing against the computer it made its own rules on scoring its plays.

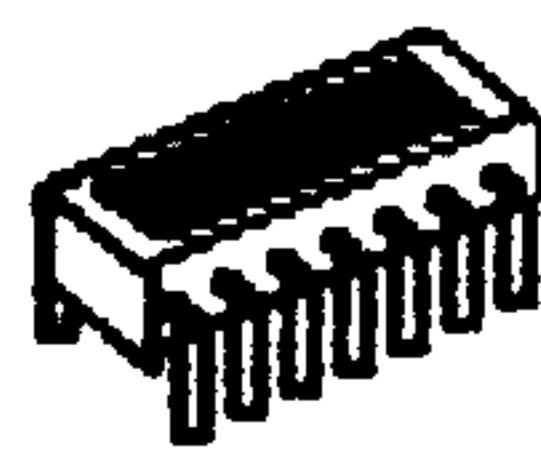
Following the game demos, Walt Ryder showed how he had taken Ken's Extended Basic program used with his Analog to Digital converter and rewrote a portion into assembly language. This provided 10 channels of information and presented the results significantly faster than the original program. The assembly program as written by Walt basically simulates the "Call Joystick" command in extended basic.

Bernie





# TI-CHIPS Notes



by **Chris Bodenmiller**

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TI-CHIPS (17 OCT 1992)

The October 17th meeting was called to order by Glenn Bernasek with 18 members present. Glenn mentioned that we were still looking for a telecommunication demo. After a short discussion, John Parken arrived and told us that he had Telco on his ramdisk, and his computer was in his car, so he would be glad to give us a short demo.

The treasurer reported that we have \$1248.43, and Glenn said that we should consider what to do with the money. Several ideas were mentioned, including the purchase of a ramdisk or hard drive. The purchase of a SCSI hard drive was approved, and the prospect of having the entire club library available at meeting is certainly exciting.

John reported that the membership is holding, and tapes and cartridges are available. He is also looking for a program that keeps track of a bowling league. If you have or know of this type of program, please let John know.

Ron Markus arrived, and the ramdisk vs. hard drive discussion was re-started. Ron mentioned that the SCSI is still in development, and is not as tried and tested as the ramdisks. It will be an excellent product when it is finished, but he advised us to hold off for now. Les also mentioned that a hard drive would require house-cleaning every so often. With this in mind, the club decided to have Harry buy a 1 meg ramdisk in Chicago, and to wait before purchasing a hard drive.

Les Kee demonstrated a program that prints out scales for circles. This unique program can also be used to make

scaled drawing rulers, but it is primarily designed for marking cylindrical objects. It prints out in millimeters, and is very accurate. This is an excellent example of using the TI for practical applications.

Glenn then began his demo of Sidewriter IV, the saga continues... He noted that the program handles a minimum of 40 columns, and this is why it wouldn't work last time. The program does an excellent, and fast job. It runs far quicker than other sideways print programs, and it even allows you to change the column sizes. This is disk #91063 in the club library. Congratulations on the successful demo!

John gave us a brief overlook of Telco, and promised to give a more complete demo next month. This is something we have all been looking forward to, and I hope you will all be able to come. Telco is all menu driven, and comes with a great many features. It has an ANSI terminal, and allows you to auto-dial if you have a Hayes compatible modem. Some of the program can be figured out by following the menus, but there are lots of questions still to be answered. Join us next month for a good look into using Telco. I'm sure a lot of us can't wait to get more involved in the modem world.

Harry said that he needs any articles for the newsletter within ONE WEEK after each meeting. Special thanks to Glenn for printing a "Happy Sweetest Day" banner. I am looking forward to next month's Telco demo.

Respectfully submitted,  
Timothy C. Bodenmiller



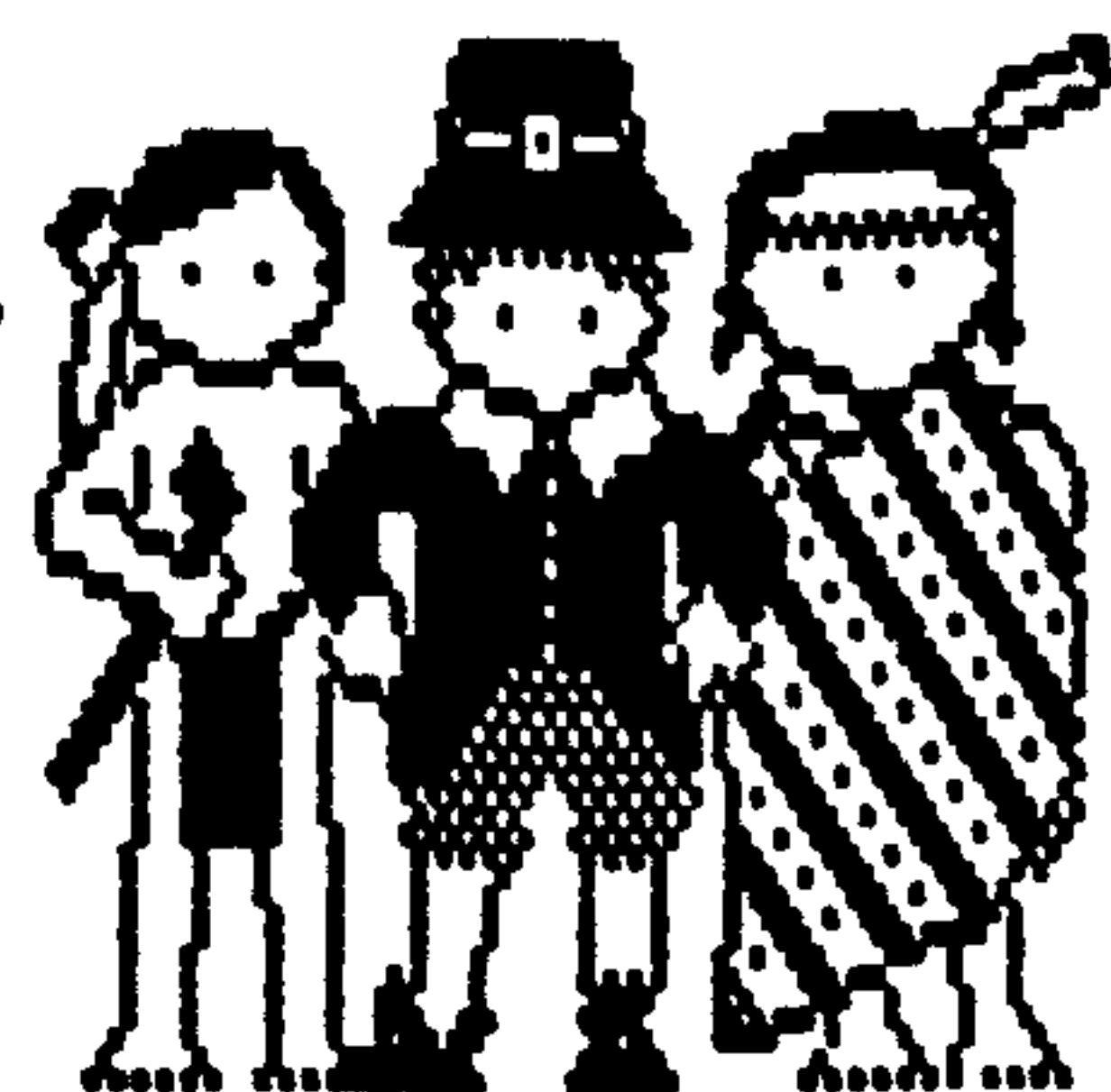
THANKSGIVING DAY

May the good LORD bless  
us all on this special  
day, and continue HIS  
favor, always, in all  
ways.





## From the Editor's Desk:



"Thank the LORD for every  
gift HE has given us"

Chicago/Milwaukee Faires 1992

Nina and I set out for Chicago on Wednesday, the 28th of October. We definitely wanted to see the History museum's Egyptian display and never got there on previous years. This time a few extra days were needed to make this more like a vacation for BOTH of us. We bumped into Ken Gilliland (Disk of, Fame), who came early for the same reason. More on this later.

Friday is always the real beginning of the Faire. The Chicago group has a hospitality room set up in the Hotel by noon. There they have a computer, and folks just come and go all day. Coffee and goodies are available while you chat with old friends and meet new ones. Friday evening is the Social Mixer, again more opportunity to talk and listen to TI'ers from all over the world.

Saturday is the BIG DAY of the Faire! Now comes a list of what was available and who:

Bud Mills, A new Horizon Ram Disk - 4000 series using 512k chips and expandable to 16 Meg. (I think?).

Bud Mills/Don O'Neil, Small Computer Standard Interface(SCSI) card that runs Hard Drives, Floppy Drives(5 1/4 or 3.5"), Tape Back-up, CD ROM's, and more. It will run eight of these devices. You can use any combination of Hard/floppy drives, etc., as long as they are SCSI formatted devices. You have to keep your old disk controller in the PEBox in order to run your old disk drives. Don and Bud will try to make available SCSI drives, rebuilt or otherwise. The card is selling for \$170.00 and several were sold (more available), but you will have to wait until the DSR is finished to use it! I don't know when this software will be finished. Other products Bud is selling are the P6ram card, Memex and Phoenix for the Geneve.

Ken Gilliland, Notung Software, brought a new program called "Disk of the Ancient Ones". This is a beauty! Many TI-Artist pics of Egyptian Art and Hieroglyphics; a Maze game that is pretty tricky; and a program to change text you type in to Hieroglyphics. Print it out for coded messages. There are 4 disks in the package (SSSD) and chocked full of good stuff. His TI-Artist tutorial on

video will be out soon. Ken has many other good programs for sale! See Ron Markus for prices!

Bruce Harrison, Harrison Software, has many Assembly programs; music disks with D/V 80 files to read or print-out that explain about the composer; music for the sound chip and the Midimaster99; many game programs; Golf Score Analyzer, etc. Ask Ron!

Nike Sealy, MS Express Software, Adventure games; player hints and tips manual; Sliding Block puzzles; Galactic Emperors, and more. P.O.Box 498; Richmond, OH 43944-0498. Phone 614-282-5627

Chris Bobbitt, Asgard Software, doesn't stop at software. He has a new card for our PEBox. A 128K program memory card that has the original 32K+ 4K blocks, up to the size of the card to put in larger programming features. This card is expandable. A free programmers kit is available by sending a postcard to:

Asgard Software  
P.O.Box 10306  
Rockville, MD 20849

Asgard also offers a brand new page maker/word processor called First Draft which allows PPRO pics and TI-Artist instances to be printed along with your text. It is TI-Writer compatible. Great for spiffy letters, posters/flyers, Newsletter editors. There is a 25,000 word Spell-it built in. Price: \$39.95 with a \$10.00 discount to registered Spell-it owners. This program was written by Art Gibson of NL Printer fame! See Ron about getting it for you.

Mark Wacholtz, Media Software, has a CS6D to Artist Instance converter, a XBasic to Artist Font converter, with many CS6D pics already on the disk to convert. He also has many other picture disks. Write for catalog:

Mark Wacholtz  
2141 NW 64th Ave #15  
Sunrise, FL 33313-3950

Looks like a full page to me. Any ??, more at the meeting. Harry

DISK 92031 and DISK 92032

These two disks are a collection of TI Artist drawings of airplanes, most of them warplanes. They include the Osprey, Foche, Corsair, Mig fighters etc. There is a load program on each disk which will display and/or print each picture selected from a menu but it will only work with the Drawplot feature of the Super XB cartridge. The pictures can be viewed however using TI Artist or equivalent.

DISKS 92033 thru DISK 92040

A collection of eight archived disks with text from the Bible. This is a large collection because there are about 5000 unarchived sectors. Included is a program which will read and display these DV/80 files. There is also an assembly program called BIBLE/KS which is half of the program. The other half is BIBLE/KT and is missing from the disks we got from Lima. If anyone has the missing section(s) please let us know so they can be added to these disks. I imagine this program has a search feature or perhaps a Bible quiz.

DISK 92041

CRUTST V 3.0. If you know what the CRU chip in your computer is then you may want to know what information is in it. If so this is the program for you. This includes the documentation and the source code.

DISK 92042

Genie File 4639 from W.Dunnells. 50 SPECIAL EVENT PICTURES (ie...NEW YEAR, FATHER'S DAY, ARBOR DAY etc.) For PAGE PRO 99.

DISK 92043

Genie File 4565 from R.Kellogg. PAGE PRO XMAS CARD (XMAS/91 210 sectors). Also on this disk are two TIA pictures of Cheryl Tiegs converted from GIF pictures.

DISK 92044

Genie File 4527. CHECK+ : I did not run this but it is intended to help keep track of your check book records. It is somewhat self explanatory but complete documentation can be obtained for \$15 from Bill Gaskill, 2310 Cypress Court, Grand Junction, CO 81506.

DISK 92045

Genie File 4735. The first file is a review of the 12 pin Panasonic printer in case you are in the market for a new printer. The second set of files is the Feb 1992 newsletter of the British Columbia user group. It has some very interesting articles, one by Jim Peterson and there is another technical one which tells how to modify your computer power supply. The author has included a file and printing program which prints up a terrific diagram of how to make the modifications.

DISK 92046

Contains the familiar Woodstock animated cartoon by Kazner but it has another cartoon called Odie which I haven't seen before. Also has the game GROM which is also by Kazner which you may already have. There are also two TIA files converted from GIF, BEAUTY and NINJA.

DISK 92047

40-COL-UTIL Version 2.3 by Brad Snyder. Also has a newsletter formatter (NEF) by Bill Gaskill. I downloaded these two files from Genie and unpacked they add up to two full disks of programs and documentation. I spent some time with the 40-column routines and feel this is really a worthwhile tool for anyone who does even simple XB programming. It allows use of windows and scrolling text in the windows, the ability to have two screens in memory at the same time, screen dumps of text and graphics and easy use of 40 column screens in your own programs. It is quite simple to use but it does require using some variations of the DISPLAY and ACCEPT commands. I have a program where I keep track of my stocks etc. and it is really nice to have a 40 column screen to work with instead of the 28 column screen in XB. There are assembly routines which are loaded in at the front part of your program which permit this. Try it, you'll like it!

#### DISK 92048

Two Genie downloads which are both text files. Genie 4782 is one of a series written by Mike Wright and has the "B" section of an encyclopedia on the TI99/4A. These are lists of programs, cartridges, hardware etc. I will have more of these on subsequent disks. Genie 4876 is the British Columbia newsletter for July 1992. This contains essays, tutorials and programs. Other issues of the British Columbia newsletter are in the library and there are more to come.

Also on this disk are nine downloads from packet radio, humor, puzzles, information etc. I hate to see a disk with unused space.

#### DISK 92049

Genie file 4807 is a catalog of products available from Competition Computer in Milwaukee. 4873 (MUSIC3) is a collection of music from Bud Wright and is one of a series. 4878 is the July 1992 issue of the British Columbia newsletter. 4881 contains music from "The Phantom of the Opera".

#### DISK 92050

Genie 4809 is Part 1 of the Tigercub catalog dated May 1992. 4875 (MUSIC1) and 4874 (MUSIC2) are from a series of music by Bud Wright.

#### DISK 92051

Genie 4784 is section (0-9) from Bud Wright's Encyclopedia. 4808 is Part 2 of the Tigercub Catalog. 4868 is an Asgard Press release on their new products dated July 1, 1992. 4877 is the June 1992 issue of the British Columbia newsletter.

#### DISK 92052

The first program on this disk is ACCORDIAN which is a very good solitaire game. It is an XB game and very fast and absorbing. Also on this disk is the CIN-DAY newsletter for April 1992. There are seven interesting XB programs and nine tutorials on various subjects. One of the XB programs is ELECTION which will allow you to use your TI to predict the election results. Just type in the

names of the candidates and the information and the vote tallies in each state as they come in and the TI will project the winner and update it as more returns come in. It's pretty clever and you might have fun using it in November. The LOAD program on this disk is quite nice and can be used on other disks with XB or basic programs because it will catalog them, print the catalog, and run the XB program of your choice.

#### DISK 92053

CIN-DAY newsletter for May 1992. Has an editorial about the Geneva, a tutorial on how to load various types of programs and a chart. Also a chart which serves as a perpetual calendar which can be printed, an editorial by Jim Peterson, a conference that was on Delphi and several XB programs. PUZZLE-15 is a program puzzle which displays a square block of 15 numbers on a 4x4 grid and the numbers are slid around to get them in order. I'm sure you have seen this one. It's a little slower than actually sliding the numbers with your finger but absorbing. Convert will convert numbers from Hex to Decimal and vice versa and also display the binary and Ascii. AQUARIUM calculates the volume of water needed for an aquarium. COMPACTOR reduces the size of an XB program which has been put in merge format. DAYS\_AWAY calculates the number of days between calendar dates. BOX-DOTS is a two person game but not a very good one.

#### DISK 92054

This is Genie File 4806 and is the June 1992 issue of the Cin-Day Communique, a diskazine/newsletter published by the Cin-Day Users Group. Included in this issue are these files: CHALLENGE, LOAD, MIN:APR92, OPA1, OPA2, OPA3, OPA4, OPA5, PAYMENT, PIRACY, REMOVE, VARNANE, and XB20. CHALLENGE, PAYMENT and REMOVE are XB programs; the first is a familiar dice game in which five dice are thrown simultaneously and the number of matches are considered. The player selects which dice to pick up and rethrow or he may opt to not rethrow. His opponent, the computer or a human tries to beat him in the same number of throws. An excellent, fast simulation of this familiar game. PAYMENT is a loan calculator and REMOVE will strip the REM statements from a program. The other files are interesting DV/80 files. The OPA files are about Oasis Pensive Abacutors products.

# A WOMAN'S POINT OF VIEW

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HELLO,

We have just returned from the T.I. Faire in Chicago and I thought I would like to share with you my impression of this yearly event.

Harrison and I chose this time of year to make an extended vacation, so we made a long weekend out of this trip. We arrived on Wednesday after an 8 1/2 hour drive and found our room to be very comfortable. The hotel itself is a very nice place to stay. It offers many amenities---pool, sauna, cable T.V., Movies, free rides to and from area malls and stores, free breakfast, and if you want in the evening a free trip to and from the area comedy club. They also offer a free happy hour in the lounge. All in all a pretty way to spend a weekend.

Thursday we visited their FIELD MUSEUM. It was an astounding visit, so much to see and not enough time to do it. We spent almost four hours there and only saw about one fourth of the exhibits. I found the Egyptian exhibit superb. It was just like being inside a real pyramid. The whole exhibit took up three floors and if you visited the Egyptian tour here in Cleveland it paled in comparison.

Friday I went to one of the area malls and visited a discount store. Chicago seems to have the latest in fashion and there were some good bargains. Friday evening we were joined by fellow club members Ron and Ada Markus. The guys talked shop and Ada and I enjoyed each others company.

Saturday was the Faire and Vonn and Maryanne Malcuit joined us. We visited to Faire for a little while and then Maryanne and I took the ride to the Meadows Mall by the Hotel bus. We did some Christmas shopping and did get some very good bargains. The Hotel bus was there within 10 minutes to bring us back so I must say the service was excellent. Saturday evening we went to Dumas Walkers for supper and had a great time. Since it was Halloween almost everyone there was in costume and it was fun watching them carry on. The menu was varied and the food we chose was delicious.

Sunday we drove up to the Milwaukee T.I. Faire. Along the way we stopped at the Guerney Hills outlet center and again some very good buys. The Quality Inn in Milwaukee is very nice and their restaurant really great. The wives chatted and rested while the guys enjoyed the Faire....not too sure about Ron and Ada as they were working hard while the rest of us having a grand time. We said goodbye to Ron and Ada as they started for home after the Faire. The rest of us stayed overnite, enjoyed a breakfast together and went our separate ways. Maryanne and Vonn headed for home and Harrison and I made a stop at Steepers and then headed for home. We took the scenic route this time and stopped for awhile at the Golden Pyramid in Madsworth Illinois and then drove the the Lake Shore ride into and thru Chicago. It was a beautiful ride, so many gorgeous homes and estates.

We stayed overnite in South Bend Indiana and then started out for home Tuesday morning. We stopped off in Toledo Ohio and visited the Libby Outlet, again some good buys for Christmas. We arrived home about 4 P.M. The trip proved to be very enjoyable and was a good chance for us as a couple to regroup. I really enjoy this time and each year that we go there is so much to see and do. I encourage wives to accompany their mates here and in Lima as it is always a fun time,

I would like to add a few personal comments to this article if I may. When Harrison first joined the T.I. Club I was glad for him but since I am not an avid computer user I personally was not interested in joining. However, over the years I have met many nice people at the meetings and have made good friendships. Some of us use the Saturday meetings as a get together day and really enjoy each others company. The Faires have broadened my knowledge of computers and the people connected with them. I have traveled to new cities, found new shopping opportunities, and found new things to do and see, but most of all as contrary as it might seem my husband and I now have more quality time to relax and enjoy each others company. Here the maxim does apply----YOU CAN MIX BUSINESS WITH PLEASURE..... Nina Hoffman

PAGE 7

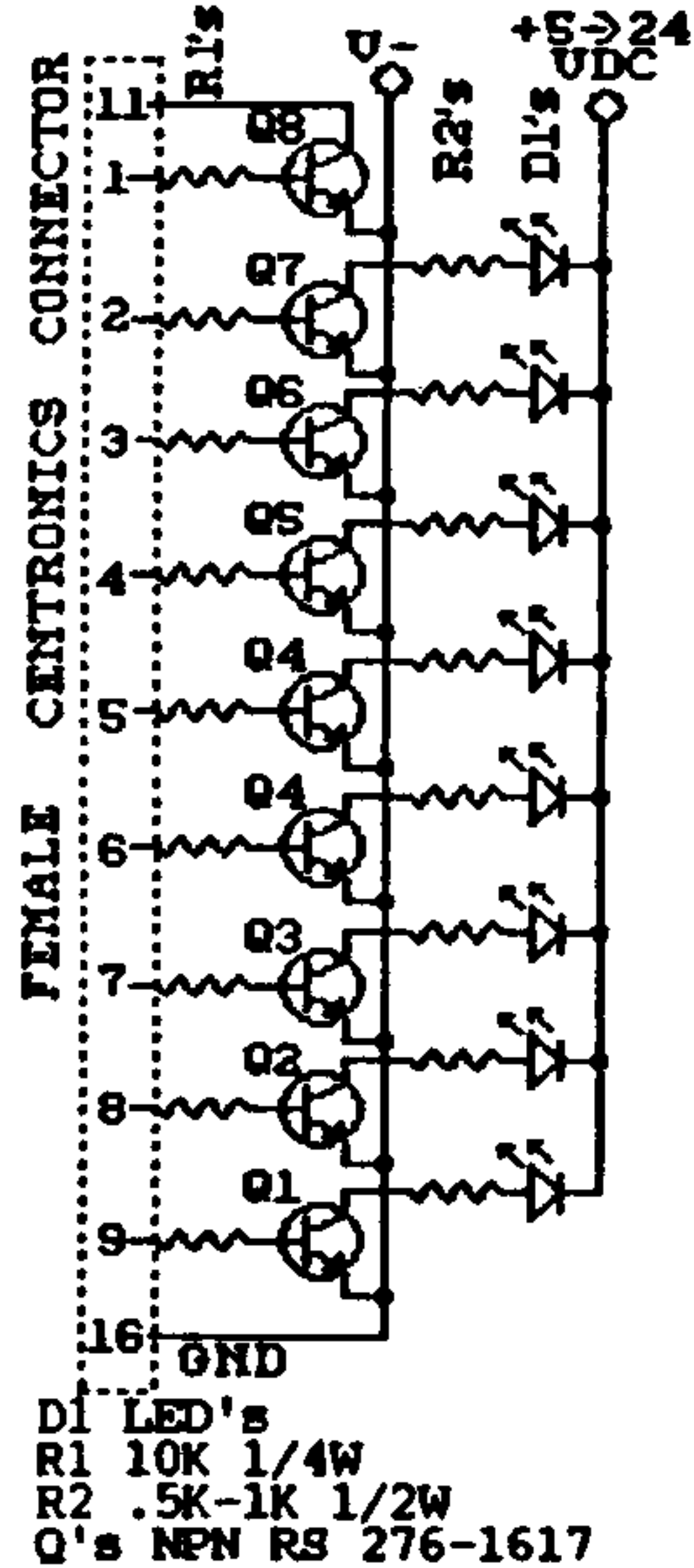
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Have a Joyous  
Thanksgiving!



# OUTSIDE CONTROL THRU THE PIO PORT



| CONTROL THE WORLD |  
 | WITH YOUR TI |  
 | by Jerry Keisler |

The last newsletter showed how Ken Glodysewski controlled a robot with the TI. This same idea provides us with the ability to control anything with extended basic. We have input thru the joystick (JS) and output thru the PIO port.

This could be increased by using speech, a clock and your printer.

### IMAGINE

10pm the computer says.  
 "10 P M TURN THE NEWS ON."  
 10:20pm Two wires 1/8 inch apart are shorted by a rain drop turning on a high gain transistor across a JS port.  
 "1020 P M IT IS RAINING OUTSIDE".  
 10:30pm someone trips the low level sonic beam by your front door and turns the light on. A JS input is shorted by a relay in parallel with the light.  
 "1030 P M SOMEONE IS AT THE

FRONT DOOR. THE PORCH LIGHT IS ON." The wet rain sensor is dried by the wind.  
 "1035 P M THE RAIN HAS STOPPED."  
 "1035 P M THE PORCH LIGHT IS STILL ON."  
 "THE TIME IS 11 P M FRIDAY SEPTEMBER 11 1992."

.....  
 6:30AM the coffee pot is turned on.  
 6:50AM the stereo is turned on low.  
 "7AM WAKE UP. 7AM WAKE UP. 7AM WAKE UP."  
 You throw a shoe at the TI. It missed.  
 "705AM WAKE UP YOUR LATE. 705AM WAKE UP YOUR LATE."  
 All of this can be printed on the printer and saved to disk.

???HOW DOES IT WORK???  
 Ken's circuit provides 10 input sensors thru the joystick port and 8 line outputs thru the PIO port. Therefore you can tell the TI 10 things by opening or closing a switch. You can control 8 things thru the PIO using some type of drive such as the transistors and relays or transistors and solid state switches.

### ---PIN ASSINMENTS---

PIO port	CENTRONICS connector	ASCII code
OUT 1	1	
DB7 2	2	128
DB6 3	3	64
DB5 4	4	32
DB4 5	5	16
DB3 6	6	8
DB2 7	7	4
DB1 8	8	2
DB0 9	9	1
IN 10	11	
GND 11	16	

If you want to have more than one thing on at a time you need to sum the ASCII code of the outputs you want on. Then that sum must be sent to PIO.

I will include more installments as I have time to build and test them.

The following program and circuit on this page has been tested on the axiom PIO and the TI RS232 PIO.

```

100 !SAVE DSK4.PIOCON
110 !CONTROL THE WORLD
    !THRU THE PIO
  
```

```

120 A$(0)="OFF"
130 A$(1)="ON"
140 ! PORT VARIABLE A()
    !SET ASCII VARIABLE B()
150 B(0)=1 !DB0
160 B(1)=2 !DB1
170 B(2)=4 !DB2
180 B(3)=8 !DB3
190 B(4)=16 !DB4
200 B(5)=32 !DB5
210 B(6)=64 !DB6
220 B(7)=128 !DB7
230 ! SET OUTPUTS TO 0
240 OPEN #1:"PIO.CR"
250 PRINT #1:CHR$(0)
260 ! DISPLAY OUTPUT CONTROL
270 DISPLAY AT(1,3)ERASE ALL
    : "OUTSIDE WORLD CONTROL"
280 DISPLAY AT(3,1): "OUT ON
    OFF STATUS": ; "DB0 0 P "
    ; A$(A(0)): ; "DB1 1 Q "; A
    $(A(1)): ; "DB2 2 W "; A$(
    A(2))
290 DISPLAY AT(11,1): "DB3 3
    E "; A$(A(3)): ; "DB4 4
    R "; A$(A(4)): ; " = END"
    : "DB5 5 T "; A$(A(5)): ; "
    DB6 6 Y "; A$(A(6))
300 DISPLAY AT(19,1): "DB7 7
    U "; A$(A(7)): ; "ALL 8
    I"
310 DISPLAY AT(10,18): "PICK
    ONE"
320 ! ACCEPT INPUT
330 CALL KEY(0,K,S):: IF S=0
    THEN 330 ELSE ONN,OFF=9 ::
    DISPLAY AT(10,18): "WORKING "
340 ! SET LINES TO TURN ON
350 IF (K>47)+(K<57)=-2 THEN
    ONN=K-48 :: A(ONN)=1 :: GOT
    O 410
360 ! SET LINES TO TURN OFF
370 OFF=POS("POWERTYUI",CHR$(
    K),1)-1 :: IF OFF>-1 THEN A
    (OFF)=0 :: GOTO 410
380 ! END PROGRAM
390 IF K=64 THEN PRINT #1:CH
    R$(0):: CLOSE #1 :: END ELSE
    310
400 !ACTION TO PIO
410 TOTAL=0
420 IF K<>56 THEN 450
430 ! ALL ON
440 FOR I=0 TO 7 :: A(I)=1 :
    : NEXT I :: GOTO 490
450 IF K<>73 THEN 490
460 ! ALL OFF
470 FOR I=0 TO 7 :: A(I)=0 :
    : NEXT I
480 !TOTAL LINES/SEND TO PIO
490 FOR I=0 TO 7 :: TOTAL=A(
    I)*B(I)+TOTAL :: NEXT I
500 PRINT #1:CHR$(TOTAL):: D
    ISPLAY AT(24,5): "ASCII TOTAL
    =" ; TOTAL :: GOTO 280
  
```

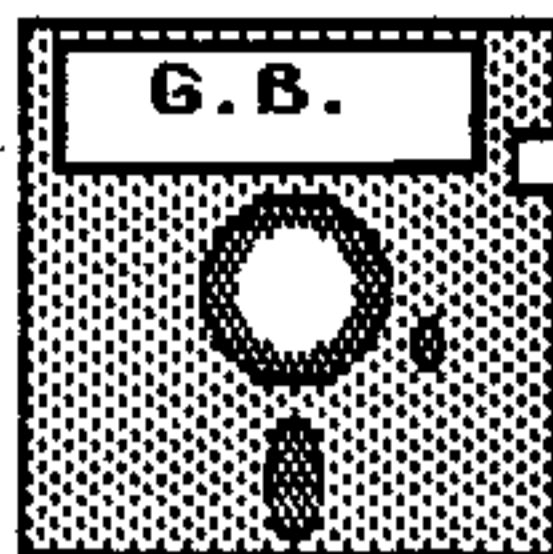


# A "CONDITIONAL" RELEASE

## TO PUBLIC DOMAIN

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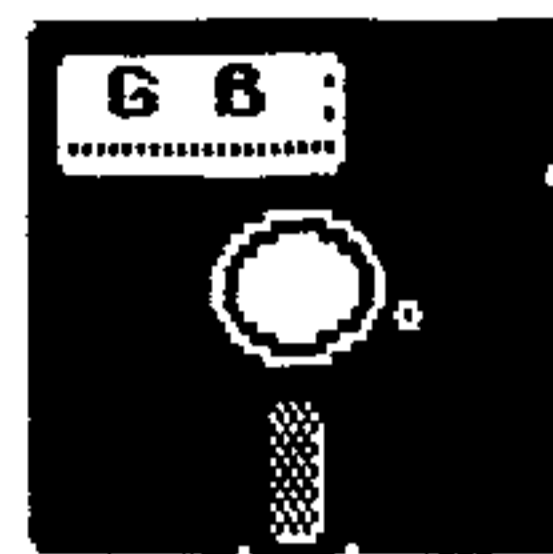
---



By Glenn Bernasek  
TI-CHIPS, Cleveland, Ohio

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I am pleased to announce that, as of July 18, 1992, I have "conditionally" released any and all software I have and will author for the TI-99/4A, for general public usage, to PUBLIC DOMAIN. The "conditional" part of this release is one in which I retain authorship of these routines, as per my copyright notification(s), the software I have or will author must be made available to TI-99/4A users at NO CHARGE other than any copying and shipping reimbursement that may apply, and that software I have or will author be not incorporated in any product for profit without my written consent.

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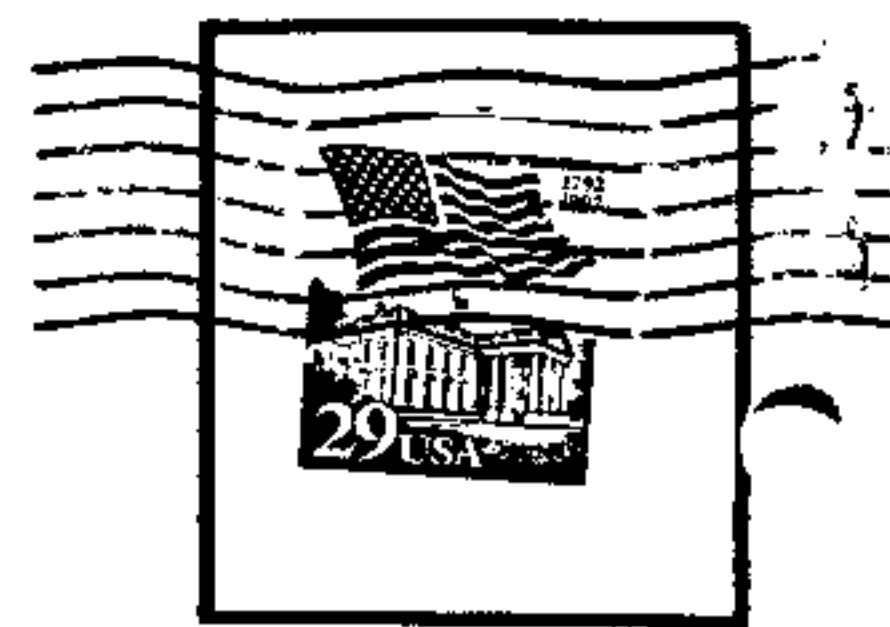
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### Editor's Note:

Glenn has written many fine programs, some of which I am unaware of to be sure. Short Sheet, Lotto 53, and some very interesting 2liners are in my disk library, but there must be more, as Glenn is very proficient at the keyboard! Check with Matt, our librarian.



Cleveland Area User Groups  
 \* Harry Hoffman  
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