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**THE HUGgers**  
**HOOSIER USERS GROUP**  
**People Helping People**

May 1989

THE HUGgers NEWSLETTER

Volume 7, Number 4

### H.U.G. BBS NEWS

The H.U.G. BBS has recently been considerably upgraded by adding a Myarc Double Density Controller Card and a Smart One 2400 baud modem, and also two double sided drives. Fellow Tier's we now have a BBS with the capability of being a really good BBS, so please take ADVANTAGE of it, call it often and LEAVE any comments you may have. It now has enough storage space for a decent upload/download library, and a good sized message base. The current BBS software from the Ottawa Users Group is not compatible with TI's Terminal Emulator II, so please use any of the following programs which are fully compatible and available in our club library: Telco, Fast-Term, Mass Transfer and Omega. And if you find that you are having difficulties, feel free to call Gary McQuade for help at 888-5654.

The following is info about the use of the Smart One 2400 Modem.

SMART ONE(tm) 2400X MODEM  
Product Review by Art Byers  
Central Westchester 99'ers

The Dilemma? To Buy or not to Buy?

CONFUSION REIGNED!! Like the many computer owners who use modems, I have been tempted to move up from 1200 to 2400 baud but have held off not only because 2400 baud modems were expensive, but also, strangely enough, because prices have been dropping rapidly. I did not want to buy a modem and find in a few weeks that the cost had been reduced by \$25, \$50 or even more!

A year ago, 2400 baud modems cost from \$300 to \$800. Now they cost from \$120 to \$300. Had prices hit bottom?? Would they start up again? Were the units at the low priced end of the spectrum "stripped out" models with few features? In addition, mail order ads showed maybe ten different brand names. Which was the best? Length of guarantees varied from 90 days to 5 years. Some had special error screening called "MNP". Some were "upgradable" to 4800 baud or even 9600 baud. BUT - BBS's and services were not offering 4800 baud, and there was no agreement on a 9600 baud protocol.

Having decided that 2400 baud modem prices were about as low as they were going to get, what with chip prices rising daily and the dollar still dropping, I started a pretty thorough search, - reading advertisements, phoning toll free "800" numbers and asking questions. Finally I zeroed in on the SMART ONE(tm) 2400X external modem for several reasons. The three most important were the price (I paid \$119 plus shipping and handling, \$126 delivered), the fact that, except for the toggle on/off switch, it is completely solid state, and it came with a two year guarantee.

I also selected the SMART ONE(tm) because it had a miriade of options. The best of the features is that all switch settings are done by means of nonvolatile RAM via either the command state or software command programming. This means once you configure the modem with the AT commands, the non-volatile RAM stores the info and reloads it on powerup. Changing a switch setting is as easy as typing one short line of characters which is

they way it is done. The non-volatile RAM also can hold one telephone number of up to 40 characters that will be auto dialed on the ATG command.

I have had my fill of poking in the guts of circuit boards, the rear end of modems, etc. with a ball point pen to flip dip switches each time a piece of software demanded a change in DTR or DCD status. I did not trust those little switches. How many times could they be thrown before their tiny contacts wore out. Sometimes they had a stiff action. What would be involved to replace one if it broke? So you can see why a 100% solid state modem was of interest.

The SMART ONE(tm) is a truly powerful piece of equipment. It has 13 programmable registers, several of which are bit mapped, which means you are programming up to 7 items within those registers. There are over 32 factory set defaults that can be changed as needed. All this is most usually done from the command state. Obviously, without a good clear and well written manual, we would be unable to do more than accept the factory defaults as set on opening the box. That would be good enough for many uses as the modem worked, out of the box, with both TELCO and FAST-TERM with only one change in the factory defaults, setting the dial system from tone to pulse as I do not have touch tone dialing.

Manuals are one of the primary ways I judge a piece of equipment or useful software. The more powerful the item, the greater the necessity for an excellent manual. This manual is over 70 printed pages. It is very well organized and written with clarity.

(CONTINUED FROM PAGE 1)

There just is not enough space available to go into the full details of everything the manual covers. I can't squeeze 70 pages of concise information into a 2 page review. However, you should know that you can adjust anything and everything from your keyboard. This covers the volume of the loudspeaker, type of dial, pause times, modem timeout, Carrier detect response time, number of rings before answer, etc, etc and more etc. It will have to suffice to say that everything you need, with one exception, is in this fine manual. I have never owned a Hayes Modem, but judging from the manual, the SMART ONE(tm) is FULLY Hayes compatible. All the modems I owned in the past were only PARTLY Hayes compatible and I never realized the how many many MANY extra useful features were omitted. Now I have them all. I may never use some, but they are there to be had if I ever need them.

The manual has one flaw. To my immense surprise, there is no diagram or explanation of the pin in/out of the modem's RS232 port. No RS232 device I have ever purchased, before this, ever left out this necessary information. Therefore, for those of

you who may buy this modem because of my recommendation, here are the connections to the TI-99/4A RS232 port #1:

2400X	TI-99/4A	
RS232	RS232/1	
PIN#	PIN#	
1-----	1	SAFETY GROUND
2-----	3\	
		;-TX AND RX DATA
3-----	2/	
4-----	20	TI RECEIVED DTR
5-----	5	CLEAR TO SEND
7-----	7	LOGIC GROUND

I was no technical genius to figure this out, this was the pin in/out for my old 1200 baud modem and it works just fine here. The pin 1 to pin 1 safety ground is probably not really needed in order for the modem to work, but just the fact that it is called the "safety" ground should tell you something. That's my word to the wise for today!!

In addition, the SMART ONE(tm) has two self test features, a speaker, to enable you to audibly monitor call progress, with volume control that is adjusted from the command state AT commands, & a full set of front panel LED's to tell you what is happening. To top it all off, It came with a free Compuserve sign up kit that has \$15 in free connect time PLUS on disk BITCOM(tm) communications software for IBM/compatible computers. That also has a thick manual.

I am extremely pleased with this modem. It's a professional piece of equipment that is huge leaps and bounds ahead of any modem I've had in the past and it cost less than my first 1200 baud modem. - AND -as of this writing, You can't beat the price.

MANUFACTURER: Best Data Products Inc.  
5907 Noble Ave  
Van Nuys, CA 91411

Mail Order Source: QUICK ELECTRONICS  
Order line: 1-800-338-4072  
Technical Support line: 813-546-0311

Also available from several other mail order sources.

H.U.G. LIBRARY NOTES

There are quite a number of new programs that have been added to the library in the last few months that are of interest. Unfortunately there are far too many to describe in any detail. Therefore, rather than describing several in some detail as was done last month, what follows is a list of new programs and updates to older programs.

- MCOPY v1.1 - disk utility
- COMIC SHOW - art/animation
- UPU - printer utility
- FPAK - XB utilities
- COPY-C - disk utility
- RAG SOFTWARE UTILITY PROGRAMS
- ARCHIVER 3.03 - archive utility
- ALIENRAIN - game
- ARGROIDS - game
- BHXP1 - flight game
- TI-SINGS - music
- HONEYHUNT - game

- WIT - game
- VALENTINE - Grog game
- QUIZWRITE - educ. utility
- CALENDAR - calendar prog.
- GEE - graphics language
- RATINFEST - game
- SEGREGATION - game
- COLUMNTEXT III - TIW utility
- CROSSWORD - crossword puzzle
- MAX-RLE 2 - graphics utility
- OMEGA - terminal emulator
- TITRIS - game
- ZODIAC v2.0 - Wheel of Fortune
- GENEALOGY - family tree util.
- VCRLIST - VCR database
- GOLF - golf game
- ROULET - roulette game
- EXTENDED DISPLAY PACKAGE -for XB
- SPACESTATION PHETA v.1.1 - game
- INTRUDER -froggy game

Look for descriptions of some of these and others next month.

- B.C.P.

# BITS, BYTES & PIXELS

REPRINTED FROM:  
LIMA 99/4A USERS GROUP



MAY 1989 VOLUME 5 #5

## MULTI USER GROUP CONFERENCE UPDATE:

Saturday May 20, 1989  
Student Activities Building  
Lima Ohio Campus, Ohio State University

This conference deals entirely with the Texas Instruments 99/4A computer and compatibles. As the conference date approaches we expect additions to the list of user groups, dealers, and formal presentations given below. Doors open and setup begins at 7:30am. Scheduled events begin at 9am and conference activities will continue until 5 or 6pm. Food service will probably be available from 11-1 immediately adjacent to the exhibit area. There is NO ADMISSION CHARGE.

## DIRECTIONS AND ACCOMODATION:

Exit Interstate 75 at state 309 and go 2.5 miles East on 309. Turn left (North) onto Mumaugh Road. The campus entrance is 0.5 miles on the right. Lima is served by trains from Chicago, Washington, and New York. Conference guests can take trains from the east and arrive at Lima in the wee hours of May 20 (trains from the east arrive at 5:02am and 6:37am), attend the conference, and leave by train the same night (departures eastbound at 11:59pm and 1:29am). The Lima UG will arrange to pick you up and deliver you back to the train station if you inform us in advance. Recommended nearby motels include the Holliday Inn (419-222-0004, single \$55 if you tell them you are attending our conference), and Motel 6 (419-228-0456, single \$21.95 plus \$6 for each additional person in the room).

## TABLES IN THE EXHIBIT HALL:

- Lima Ohio User Group; We will offer free copies of anything new in our library since the 1988 conference to a designated representative of ANY user group attending, even representatives of groups that do not schedule exhibit space. User groups we know will be attending will receive a library listing in the mail prior to the conference. Provide your own blank disks or purchase blank disks at the RAMCHARGE COMPUTER table. Our listing will also be posted at the conference. This offer is not made to individuals, who can gain access to our library by joining the Lima UG.

The Lima UG will also be releasing to the TI community a music medley of Andrew Lloyd Weber's THE PHANTOM OF THE OPERA programmed by our own Andy Frueh. We will be giving this away, charging for only the cost of the disk. If you like it, you can make a fairware donation to Andy.

Also for sale at the Lima UG table will be Jack Sughrue's PLUS! v2.0, which will have its official release at the Lima Conference, and Milo Tsukroff's MX-DOS v3.0. Milo is author of Chinese Chess and other PD and fairware programs. MX-DOS v3.0 will be the subject of one of the conference room presentations.

- GREAT LAKES SOFTWARE; software sales, including CERTIFICATE 99 v2, JOY PAINT, and other assembly language software

- MICRO SERVICE; Fort Loramie OH; printer sales and repairs to TI hardware

- OTTAWA USER GROUP; Ottawa Canada

- CIN BAY USER GROUP; Cincinnati and Dayton Ohio areas

- GREAT LAKES USER GROUP; Detroit area

- BUD HILLS SERVICES; sales of Horizon Harddisks and P-gram cards.

- ST. LOUIS 99ERS; St. Louis MO area, sales of SUPER BASIC

- TIGERCUB SOFTWARE (Jim Peterson); Sales of original software, plus many VERY inexpensive disks full of public domain software.

- C.O.W.N.I. the Columbus Ohio user group.

- COMPUERVE (Jim Horn, TI sysop); signing people up for this national information service.

- GENIAL COMPUTERWARE; software sales. Barry Traver, the well known TI columnist for Computer Shopper, will represent Genial at our conference.

- ASGARD SOFTWARE (Chris Bobbitt); software sales. Chris told us recently that PRESS may be ready in time for our conference (or sooner). We sure hope so!!

- CLEVELAND AREA USER GROUPS; Cleveland Ohio area. Among other things they will have for sale TI BASE; as well as PICTURE\_IT, PRINT\_IT, JIFFY FLYER, FORM SHOP, JIFFY CARD (a new release) and other software by Rodger Merritt; as well as software by Glenn Bernasek.

- OH MI TI USER GROUP, Toledo OH and southeastern Michigan areas.

- L.L. CONNER ENTERPRISES (Larry Conner), hardware and software sales. This well known dealer often advertises in Computer Shopper and is the exclusive dealer for TURBO PASCAL 99. Myarc Hard and Floppy disk controllers will be among the items for sale.

- P&A SOFTWARE (Paul Scheidenantle), software sales including a probable new release relating to computer graphics and art. SPORTS INSTANCES (another new release), DISK LABELER 99 v2, TI ARTIST FONTS 2-5, TI ARTIST BORDERS 2-3, and PICASSO BORDERS will be for sale.

- THE FORT'S USER GROUP, Fort Wayne IN area.

- RAMCHARGE COMPUTERS (Ron Markus), Brookpark OH. Original and rare TI modules, Databiotics modules, modulators, keyboards, power supplies, 2 drive cable sets, bulk disks, fairware library (\$2 each disk or 3 for \$5), recent software.

NEXT PAGE

# Bits, Bytes & Pixels

**CONFERENCE ROOM SCHEDULES** Note: These presentations will be videotaped and made available to any user group for the cost of the required TWO blank VHS tapes and postage. Group representatives can leave two blank tapes and \$2 book rate postage at the Lima UG table.

## ROOM 160

- 9:00 am. Barry Traver, RECENT SOFTWARE FROM GENIAL COMPUTERWARE

- 10:00AM. Barry Traver (his second presentation), LINKING XB TO ASSEMBLY LANGUAGE VIA "CALL LINK".

- 11:00AM. Chris Bobbitt, THE LATEST RELEASES FROM ASGARD SOFTWARE.

- NOON. User group officers meeting. Suggested topics include: another group hosting the 1990 Multi User Group Conference; a central register of Ohio area user group meetings to be published in all group's newsletters; and a rotating schedule in which each area user group formally invites all other user groups to attend one of its regular monthly meetings.

- 1:00pm. Bud Mills, THE LATEST ABOUT HORIZON HARDDISKS AND THE P-GRAM CARD.

- 2:00pm. Andy Frueh, PROGRAMMING MUSIC ON THE TI

- 3:00pm. Ron Markus, THE BIJIT SYSTEMS AVPC CARD

## ROOM 150

- 9:30 am. Jim Horn, SERVICES AVAILABLE ON COMPUSEVE

- 10:30am. Martin Sauley, TI BASE TUTORIAL.

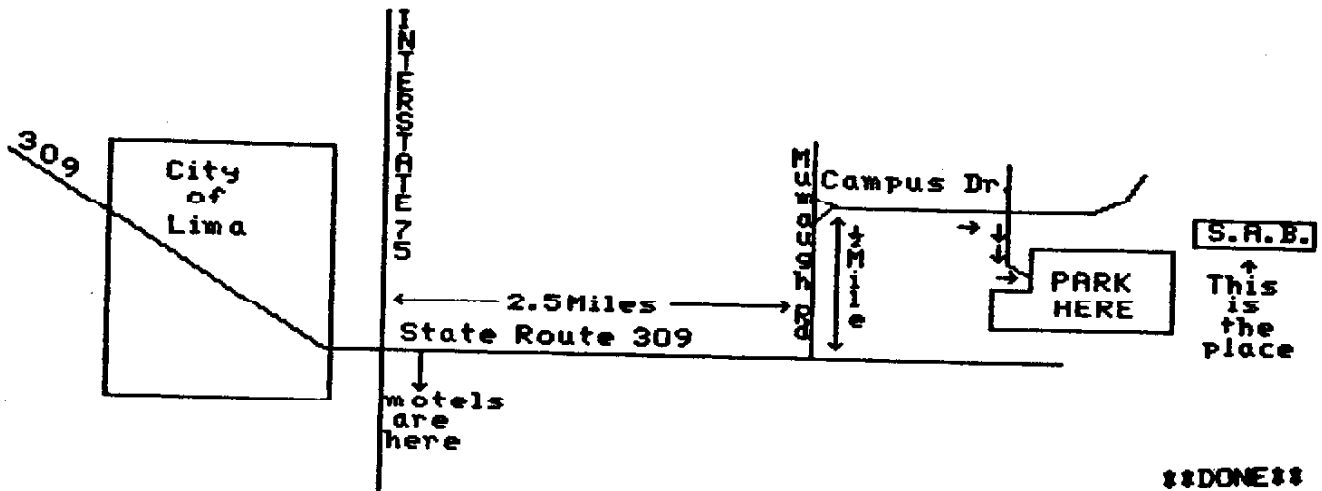
- 11:30am. Paul Scheideantle, HOW TO CONVERT FROM "ARTIST" FORMAT TO ANOTHER.

- 12:30pm. Steve Karasek, SUPER BASIC v2. This demo will be given by the software author. See the SUPER BASIC version 1 review in the Feb 89 issue of Micropendium, and the version 2 review in this issue of BB&P. Version 2 will be officially released at the conference.

- 1:30pm. Irwin Hott, NOW THE BLIND USE SPEECH.

- 2:30pm. Milo Tsukroff (Not in person. This is a videotaped presentation produced especially for our conference.), AX-POS V3.0 AN ICON BASED GENERALIZED PROGRAM LOADER WITH DISK MANAGEMENT FUNCTIONS.

There are still afternoon time slots available for more demos and space in the exhibit room for a few more tables. Any individual, user group, or dealer who wishes to schedule a demonstration or reserve table space may do so. **THERE IS NO COST FOR ANYTHING. THIS EVENT IS TOTALLY FREE.** For more information write us at P.O. Box 647, Venedocai OH 45894, or call Dave Szippel evenings at 419-228-7109.



## LETTER TO THE EDITOR AXIOM PRINTER INTERFACE

Dear Charles:

Received the newsletter (4/89) and would like to make a comment on the AXIOM printer interface. Lacking money for an RS232 card, many moons ago I purchased the AXIOM. It has been in service for over 3 years and with no problems. I was frustrated each time I encountered a program specifying RS232, VARIABLE 132. This involved changing printer parameters to a lengthy "OPEN #1:"PIO.LL=132, VARIABLE 132" (the AXIOM command for 132). The manual (page 13) explains how to change to RS232 but the user loses any printer

options. So... why not have the best of two worlds. I installed a BP/DT toggle switch (Radio Shack) on the front edge of the AXIOM case and, following the manual, wired "PIO" to one side of the switch and "RS232" to the other. Now I simply toggle back and forth to either option. I have yet to encounter problems. As you would state, DONE

Harry Allston  
10300 Kings River Road #57  
Reedley CA 93654-3622

\*\*\*DONE\*\*\*

THE GREAT VIDEO CAPER II  
(A SEQUEL)

By Glenn Bernasek - TI-Chips

"So, if your video display is giving you fits, or suddenly goes out to lunch, don't despair--it's probably the TV/Computer modulator acting up. With these words of "wisdom", I closed an article I had written for the October, 1987 issue of the CLEVELAND AREA 99/4A USER GROUPS newsletter concerning analysis of possible problem areas to look at if and when your TV display starts to act up.

I have had the opportunity, since then, to investigate and repair (correct) another contributing factor to the sporadic video display problem. It seems that not only is the TV/Modulator pin plug and cable subject to stress and strain, but the pin plug receptacle (located in the rear of your console) is also susceptible to the same strains. The damage in this case occurs in the form of loosened or broken contacts of the pin plug receptacle with the main circuit board.

One way to determine if this is the case is to check out the Pin Plug/Cable connections first, and if there is no problem; then take a look at the modulator receptacle. If the receptacle feels loose when wiggled, or the video display comes and goes while lightly wiggling the pin plug while it's plugged in, then the solder contacts to the main circuit board are probably broken. This is the result of TI's computer designs which places both the GROM connector and the Modulator port at 90 degrees to the circuit board (resulting in solder contact strains and breakage). We've heard about the GROM port problems before. Now it's the Modulator pin plug receptacle's turn.

Repairing (or correcting) this problem is rather easy to accomplish. The following is a list of items you will need:

1. A small flat blade screwdriver and a medium to small Philips screwdriver.
2. A low wattage pencil soldering iron and resin core electrical solder.
3. A magnifying glass is optional, but handy when observing small areas on a printed circuit board.
4. And as usual, a well lit - static free work space.

If you're ready, let's get started. The first thing you realize is that you are going to have to OPEN UP your 99/4A for some corrective "minor" surgery. If you've never done this, and you feel uncomfortable with the prospect of taking your TI apart; then I'd recommend that you take your 99/4A and this article to the next meeting of your user group and ask a fellow member for help. NO ONE (and I mean NO ONE) will turn you down! But if you are willing to give it a try, the following procedure is simple and easy to do.

Lay the TI face down with the keyboard edge nearest you. Observe that there are seven(7) screw indentations. These are Philips head plastic tapping screws, and they are to be removed at this time. Don't lose them!

Now lift the keyboard edge of the 99/4A plastic bottom slightly, and pull the ON/OFF switch STRAIGHT out. If this seems to be difficult, take the small flat bladed screwdriver and press lightly on the flat surface of the

switch just inside the cover as you pull out. (There's a small molded spring retaining clip built into the switch.) Don't lose the switch!

You can now lift the bottom of your 99/4A free from the console. Look carefully at the insides of your computer! It's important that you remember just where everything is! If you don't, let's 'o luck in getting it back together! Not only that, but knowing where all the cable connections and screws are will prevent any "OOP'S" while you are taking things apart.

You will note that the insides are divided into three(3) seat areas (the underside of the keyboard, the backside of the 99/4A power supply (I HOPE YOU UNPLUGGED THE 99/4A FROM THE WALL BEFORE YOU STARTED!!!) and a galvanized steel shell housing the main circuit board). The galvanized steel shell is what you are interested in: I am NOT recommending that you go any further than directed at this time. If curiosity gets the better of you ... you're on your own!

Look carefully and you will see that there are three(3) plastic tapping screws and three(3) machinist screws with nuts holding the large galvanized steel shell together and in place in the console. First, remove the three(3) plastic tapping screws that hold down the main circuit board; then remove, by SLIGHTLY lifting the main board from the console (BEING CAREFUL TO LIFT STRAIGHT UP ABOUT ONE(1) INCH TO CLEAR THE GROM CONNECTOR INSIDE FROM ITS SLOTS AND NOT TO BREAK OR DISTURB THE CONNECTING CABLE TO THE KEYBOARD.), and remove the three(3) machinist screws. Be careful not to lose screws, nuts or washers in this process! Then remove the two(2) sheet metal edge clips from the shell. Lift off the steel shell from the circuit board by lifting up on the RIGHT side and sliding the shell to the LEFT to clear the I/O port edge connector. With experience, this whole procedure shouldn't take more than 15 minutes. (Assuming you want experience in the first place!)

What you are now looking at is the underside of your 99/4A's main circuit board. This is what you are going to work on. Once again, if you get curious about what everything else looks like ... you're on your own! The TV/Modulator receptacle is located at the RIGHT REAR corner of the board. There are five(5) pins soldered to the board and two(2) support ears soldered to the edge of the board. If you wiggle the receptacle you will see the solder pins and the ears move. It is suffice to say that NOTHING should move! These are the points that will have to be re-soldered. OBSERVE HOW THE CIRCUIT BOARD IS LAID OUT AT THIS TIME! You don't want stray or excess solder bridging or shorting the board!

Now apply a SMALL dab of solder to the pre-heated soldering iron, and LIGHTLY touch the tip of the iron to the solder point you are repairing on the board. Repeat this procedure until all points are re-soldered firmly in position. Inspect and clean-up around each point. This will prevent any accidental shorting.

All that is left to do is to put it all together again! Just remember where everything was, and you'll do alright. (PAY PARTICULAR ATTENTION TO THE POSITION OF THE ON/OFF POWER SWITCH ASSEMBLY.)

Plug in your TI-99/4A and give it a road test. Your video display should be "rock solid"! If I come across anything else that contributes to THE GREAT VIDEO CAPER, you can bet there will be another SEQUEL.

## GET THE MOST OUT OF PRINT WIZARD

REPRINTED FROM:

*Deanna Sheridan, Northcoast 99ers, Cleveland, OH 12/88*

Print Wizard was introduced by TRIO+ Software last year at the Chicago Faire. It has gotten some nice reviews lately in the various newsletters on our exchange list.

If you have ever seen or used Print Master for the MSDOS machines, you will recognize that Print Wizard is patterned very closely after this package (within the limits of the TI's memory space). As with most long IBASIC programs, it takes a long time to load and get ready to run. In scanning the code, I cannot determine if it has utilized any Pre-Scan operations and it seems to take forever to start running.

As with Print Master, Print Wizard offers you a choice of greeting cards, signs, or letterheads. The manual is one of the best I have come across in a long time and guides you through each step. You are allowed a border, text and graphic at the same time. The card does print in all the right places to fold for a standard greeting card.

You have a choice of 3 sizes for your graphic and depending on that choice, a variety of ways to place that graphic on your screen. There is a small box on the screen which shows you how many of your graphics can go on a side and where you can choose to place them. If you also want text, it sometimes becomes tricky not to intermingle them.

You get all of the above with Print Master, also, except that with the additional memory available, you can actually see what the finished product will look like before it is printed. There are now many libraries of graphics available for Print Master, but I have yet to see any new fonts or borders. This is where our slow-poke Print Wizard has the advantage. You can convert your TI-Artist fonts and graphics (in fact all the graphics and fonts on Print Wizard come from a companion disk for TI-Artist produced by Trio+ Software) and convert them to Print Wizard format. Although I have not tried it, there are instructions to create your own borders. This makes Print Wizard a very versatile program.

But, if it wasn't so slow, you say. It takes up to 45 minutes to create and print just one card. There is no way to save your cards, or is there? There is an advertisement currently running for a discount department store where the woman chants with a one-purpose thought, "paper towels, paper towels". Computer users should always be thinking "print to disk, print to disk". This will make Print Wizard a completely new program for you.

At the menu screen, where you are asked to configure your printer, use `DSK1.FILENAME` (whatever you want to call it) and when it comes time to print the card, it will print it to disk. The time will be the same as when printing to the printer, but if you want multiple copies, they are printed in a fraction of the original printing time.

The idea for this came from Tom Wynne of the Tacoma 99ers last fall. He said most of the graphic programs could be printed to disk and then run through an IBASIC program for multiple copies and speed (since the printer commands are already converted). In the case of Print Wizard, I saw a little program similar to:

```
100 OPEN#1:"DSK1.FILENAME",INPUT,VARIABLE 128
110 OPEN#2:"PID.CR",OUTPUT
120 IF EOF(1) THEN 140
130 LINPUT #1:AO :: PRINT #2:AO :: GOTO 120
140 END
```

With this in mind, I have geared up to use Print Wizard in the following manner. I have printed out all the borders and given them the same names as in the manual. I am planning to take my favorite graphics for special occasions such as Christmas, Easter, Valentine, Birthday, etc. and make up a disk. Then as I run onto some favorite sayings or poems, I will create a disk with the various fonts provided or convert some others. THEN, when I need a card for that special occasion, I can print it out in about 5 minutes or less. If you return your paper to the starting position after printing the border, or graphic, or text, it will be perfectly placed on the paper just as though it had been printed all at once. Also, using this method, I can mix and match borders, graphics, etc. and can also print in a variety of colors and can even use more than one graphic on a page. It has been using Print Wizard a pleasure instead of frustrating. The little program above could be enclosed in an array so that multiple copies could be made without resetting. A person with a set of templates and the above program would not even need Wizard to create cards.

I have spent most of my time on Print Wizard doing cards as it seems to have more potential than others we have for doing that. The sign program is also nice, but there are much better programs available for Letterheads, and I don't plan to use that feature at all. For \$19.95 and the above suggestions, you could do some very creative Christmas cards next year!

OTHER VIEWS AND NEWS

A monthly survey of exchange publications and TI news.

By Carl Clark

INCREASING YOUR CLOCK SPEED BY ABOUT 15% --- The Front Ranger --- Ray Dyer --- April 89 --- This brief note tells how to soup up your console with a 14.318Mhz crystal wired in with your 12 Mhz

LF STRIPPER-CR ADDER --- PUNN Newsletter --- Jim Swedlow --- March 89 ---These two very brief programs do just what the title says. They may be handy when working with TI WRITER.

GRAPHICS COMPATIBILITY --- Cleveland Area U.G. Newsletter --- April 89 ---This full page article is a good review of the features of the major TI graphics programs and what printers they support.

HORIZON CHANGE NOTICE --- PUG Peripheral --- April 89 --- This notice by Bud Mills details two simple but very useful modifications for the Horizon Ramdisk. One enables the ramdisk to reset on powerup thereby keeping it shut off until the voltage stabilizes. The other is how to install a switch that will allow you to make the ramdisk invisible to the computer without dumping everything stored on it. Super support from one of Tidom's best suppliers!!

THE ZENO BOARD UPDATE --- I spoke to Mr.Zeno last week and he has been working very hard on getting the board into production. Even though he has been going through some unsettling times personally he is having the beta test version made now. How these ten boards work in the real world will determine when we see the finished product. My guess is another month or two. The price still looks like \$15 or less.

HUGgers will have a table at the Lima Conference May 20. All members are welcome to sell any computer related items that they no longer use. A small percentage will go to the club treasury. If you can't go send your goodies with someone who is going.

OFFICERS

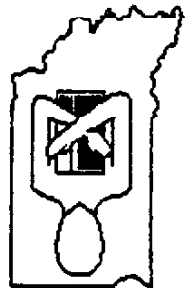
PRESIDENT....JOHN POWELL 786-3270
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\* (317) 782-994A \*
\* 300/1200/2400 BN1 \*
\*\*\*\*\*
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ST.ANN'S SCHOOL
2839 S. McCLURE
INDIANAPOLIS,IN
MEETINGS OPEN AT
2:00 PM
MAY 21 1989

**TIME DATED**  
May 21 1989  
**MATERIAL**

**HOOSIER USERS GROUP**  
P.O. Box 2222  
Indianapolis, IN 46206-2222  
Forwarding and Address  
Correction Requested



## APPLICATION FOR MEMBERSHIP

Below you will find an application for membership to the Hoosier Users Group. Active membership entitles you to the Newsletter, up and download on the HUGbbs, attendance and voting rights at regular club meetings, access to the HUGger Library of Programs, special club activities and special guest speakers for one year. Subscribing members will receive the **NEWSLETTER** only.

Make check or money order payable to **Hoosier Users Group**. Send completed application to:

**HOOSIER USERS GROUP**  
P.O. Box 2222  
Indianapolis, IN 46206-2222

(Cut on dotted line)

Check One:

### Active Member

New: \$20 \_\_\_\_\_

Renewal: 15 \_\_\_\_\_

### Subscribing Member

New: \$10 \_\_\_\_\_

Renewal: 7.50 \_\_\_\_\_

Amount Enclosed: \$ \_\_\_\_\_

# \_\_\_\_\_ D \_\_\_\_\_  
S \_\_\_\_\_

Name: \_\_\_\_\_ Today's Date: \_\_\_\_\_

Address: \_\_\_\_\_ Apt. # \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

Phone: (\_\_\_\_\_) \_\_\_\_\_ - \_\_\_\_\_

Interests/Comments: \_\_\_\_\_