

March 23, 1993

Warren A. Barnes
5210 Ash Bourne Lane
Indianapolis, IN 46226

Dear Hoosier User Group Member,

On the Sunday of March 21, 1993 I accepted a previous nomination of and became president of the Indiana Hoosier Users Group. It was a position I was reluctant to accept, but finally decided to based on a number of reasons. One of which is that I hope I can move the group into different directions and better achievements of it's charter; To promote support for the Texas Instruments home computer. But before I do so I need to know some information about yourself and what the group means to you.

So I ask that you please take a few minutes of your time to fill out and return the accompanying form. This will allow me to get to know you and what you expect from the club. I feel that as becoming members we all have made a choice that require each of us to participate on some level.

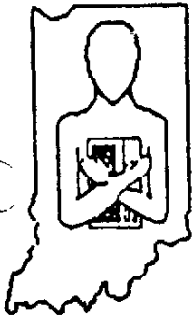
However, before I ask you to re-introduce yourself, I would also like to introduce myself and my background to you. I have been a member of the group for approximately three years and have owned a basic Geneve 9640 for the same amount of time. I have programmed many hours on the Geneve and TI using Assembler, Fortran, Pascal, and have recently begun exploring C on the Geneve. My main choice of programming languages are Fortran and Assembler in that order.

Over the years I have watched as the group has grown and shrunk. I believe it might be attributable to the dwindling world wide support but also believe the latest products developed will revitalize it. I hope that as being president, I will also be a part of the revitalization.

Sincerely,



Warren A. Barnes
President.



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THE HUGgers
HOOSIER USERS GROUP
People Helping People

MARCH 1993

The HUGgers Newsletter

Volume 12, Number 3

OFFICERS CORNER...

As mentioned in last month's column, our annual elections will be held at the March meeting, therefore please plan to attend. Also, our annual swap meet will be held at the March meeting, which is another good reason to attend.

At the last meeting the following individuals accepted nominations:

- Secretary/Treasurer: Fred Edstrom
- BBS Sysop: John Powell with Gary McQuade and Bill Lucid as Assistant Sysops.
- Vice President: Bryant Pedigo

For President, Warren Barnes has tentatively accepted. Although we hope that Warren will agree to be president this coming year, nominations are still open to anyone else that is interested or willing to be president, or run for one of the other offices. Ideally it would be desirable and something of a novelty to have at least two candidates for each office.

Anyone that can't attend the March meeting but who wants to vote (or run for an office) can send a post card to our P.O. Box, or leave a message on the BBS.

- B.C.P.

**REMEMBER MARCH IS
SWAP MEET MONTH**

INDIANA HAMFEST

Sunday, March 14, the Indiana Hamfest will be held at the East Pavilion building of the Indiana State Fairgrounds. Doors will open at 8:00 a.m. with admission of \$7.00. Over 500 tables will be set up featuring new and used computer related items, and ham radio equipment. This is the biggest of the local hamfests and generally features a wide variety of products, and some genuine bargains.

This news letter is brought to you by the efforts of the officers & members of the Hoosier Users Group.

THE OPINIONS EXPRESSED HEREIN ARE THE AUTHORS', and DO NOT NECESSARILY REFLECT THOSE OF THE PUBLISHERS.

MEMBERS ARE ENCOURAGED TO SUBMIT ARTICLES FOR PUBLICATION.-PLEASE!

REMEMBER

This is **YOUR** user group too!

MONTHLY MEETING LOCATION
 LITTLE HOUSE NEXT TO THE
 ST. ANN'S SCHOOL
 2839 S. McCLURE
 INDIANAPOLIS, IN
 MEETING STARTS
 AT 2:00 P.M.
 MARCH 21, 1993

SUPPLIERS OF TI99/4A COMPATIBLE PRODUCTS

February 1993

List compiled by Gary W. Cox

The following is a list of vendors of products for the TI99/4a and Geneve 9640 computers. The list is not complete as there are more suppliers than what is listed but this covers a good portion of them. Those listed with an asterisk (*) beside the name indicate that it has been a while since last contact with that company. Listings are in no particular order and information listed is correct to be best of my knowledge.

TM Direct Product Marketing
1650 Broadway
Redwood City, CA 94063
1-800-336-9966

Texcomp
P.O. Box 33804
Granada Hills, CA 91344
(818) 366-6631

Joy Electronics
P.O. Box 542526
Dallas, TX 75354-2526
(214) 243-5371
(800) 442-3892 Texas
(800) 527-7438 Outside Texas

Bud Mills Services
166 Dartmouth Drive
Toledo, OH 43614
(419) 385-5946

L.L. Conner Enterprise
1521 Ferry Street
Lafayette, IN 47901
(317) 742-8146

Rave 99
112 Rambling Rd.
Vernon, CT 06066
(203) 871-7824

Asgard Software
1423 Flagship Drive
Woodbridge, VA 22192
(703) 491-1267 7-10pm EST
(716) 778-9104 11am-7pm EST

Tigercub Software
156 Collingwood Ave.
Columbus, OH 43213
(614) 235-3545

Texaments
53 Center Street
Patchogue, NY 11772
(516) 475-3480
(516) 475-6463 24hr BBS

Harrison Software
5705 40th Place
Hyattsville, MD 20781
(301) 277-3467

Competition Computer Products
2219 S. Muskego Ave.
Milwaukee, WIS. 53215
(800) 662-9253 (national)
(800) 242-7902 (wis)
(414) 672-1600

Hunter Electronics
4 N. 370 Pine Grove
Bensenville, IL 60106
(312) 766-9503

Comprodine Software
1949 Evergreen Ave.
Fullerton, CA 92635
(714) 990-4577

Arcade Action Software *
4122 N. Glenway
Wauwatosa, WI 53222

Crystal Software
635 Mackinaw
Calumet City, IL 60409-4014
(708) 891-2315

Ramcharged Computers
6467 E. Vancy Dr.
Brookpark, OH 44142
(800) 669-1214
(216) 243-1244

Electronic Sys Development *
P.O. Box 23805
Washington, DC 20006
(301) 322-6150

J.P. Software
2390 El Camino Real #107
Palo Alto, CA 94306
(415) 328-0885

Western Horizon Technologies
Don O'Neil
10225 Jean Ellen Dr.
Gilroy, CA 95020
(408) 848-5947

Jim Leshar
722 Huntley
Dallas, TX 75214
(214) 821-9274

The Bunyard Group
P.O. Box 62323
Colorado Springs, CO 80962-2323
(719) 488-2572

CaDD Electronics
81 Presscott Road
Raymond, NH 03077
(603) 895-0119

Alboes Computer/Suppliers *
6298 Hamilton Rd.
3G Main Street Village
Columbus, GA 31909
(404) 327-4900

Braatzs Computer Services
719 E Byrd St.
Appleton, WI 54911
(414) 731-3478 (order line)
(414) 731-4320 (after 6pm)

McCann Software
4411 North 93rd St.
Omaha, NE 68134

Notung Software
7647 McGroarty St.
Tunjunga, CA 91042
(818) 951-2718

OPA
432 Jarvis St. Ste. 502
Toronto, Ontario M4Y 2H3
Canada
(416) 960-0925

LGMA Products
5618 Applebutter Hill Rd.
Coopersburg, PA 18036

D. Wright Stuff
185 North Post Road
Indianapolis, IN 46219
(317) 895-1765

Media Ware Software
2141 NW 64th Ave Suite 15
Sunrise, FL 33313-3950
(305) 749-4690

MS Express Software
P.O. Box 498
Richmond, OH 43944-0498
(614) 282-5627

Secure Electronics
South 81 West 18878 Apollo Dr.
P.O. Box 132
Muskego, WI 53150
(414) 679-4343 or (414) 529-2173

S&T BBS Software/Tim Teach
3804 North 75th St.
Milwaukee, WI 53216
(414) 464-4946 (voice)
(414) 464-1978 (BBS)

TI/GENEVE SUPPORTIVE PUBLICATIONS

Micropendium Magazine
P.O. Box 1343
Round Rock, TX 78680-1343
(512) 255-1512
\$25 year (U.S.)

Genial TRAVELER Diskazine
835 Green Valley Drive
Philadelphia, PA 19128
(215) 483-1379 (on disk)

9640 News (Geneve owners)
P.O. Box 752465
Memphis, TN 38175-2465
(901) 368-0112 (BBS)

For repairs contact:

Texas Instruments Inc.
Attn: 99/4a Repair Center
2305 North University Ave.
Lubbock, TX 79408
(800) TI-CARES
(806) 747-1882

Western Horizon Technologies
Don O'Neil
10225 Jean Ellen Dr.
Gilroy, CA 95020
(408) 848-5947

(Repair of Comcomp products)
99 Computer Repair
c/o David Lynch
2101 W. Crescent Ave. Unit A
Anaheim, CA 92801
(714) 539-4834

Secure Electronics
South 81 West 18878 Apollo Dr.
P.O. Box 132
Muskego, WI 53150
(414) 679-4343 or (414) 529-2173
(authorized Myarc repair)

Comments

When a virus isn't a virus

Last month's virus scare is this month's sigh of relief. A number of TI users called and wrote to explain the problem that was described in last month's issue as a virus was really a problem with the Horizon RAMdisk. Here's the explanation from Allen Rogers, of Clearwater, Florida:

"The problem Bill Gaskill encountered is in the hardware of his Horizon RAMdisk and, in my letter to him, I advised that he contact Bud Mills, of Horizon Computer, who would probably fix it for him gratis.

"You see, about two years ago I alarmed several members of the Cin-Day user group (to which I also belong) by telling them that I had this problem. Finally, one of them suggested that I call Bud Mills. I did that and he knew right away what the problem was. He told me to send the HRD card to him and he would fix it and return it.

"It seems that what makes it appear to be a virus is the unfortunate choice of the "!! GOTCHA!" in one of the messages in the ROS (RAMdisk Operating System) software. However, the problem is generated by the HRD hardware and must be fixed before it is safe to keep it in the system. Using the system without repairing the HRD could destroy more disks."

I've also been told that the !! GOTCHA! message was programmed into the Horizon ROS by Gary Bowser of OPA. Bowser has said that "I thought I had gotten rid of that thing."

So, in any case, TI users can breath a little more easily. I'm sorry if I may have alarmed anyone by printing the virus article last month, but at the time I thought it was better to get the information out just in case it proved to be as infectious as computer viruses in the PC/Mac worlds. The fact that it turned out not to be a virus is, in my opinion, very good news indeed.

D. Wright Stuff IT PAYS TO JOIN!

Send us a copy of your paid receipt for your '93 dues to a TI User Group and get \$5 off an order of \$35 or more. This offer will also be valid at the Lima TI Conference to be held May 14 & 15. *Orders must be postmarked by May 30, 1993.*

- ★ **200 Watt Switching Power Supplies** — for a mini tower case. It's easy to change the power supply in your P-box. Comes with step-by-step instructions on tape. \$30
- ★ **101 Key Enhanced "Click Touch" Keyboards** — for Geneve, Rave or XT/AT compatibles. \$32
- Disk Drives** — Full Height \$20 Half Height \$40
2 Half Heights with cables \$80
- ★ **Broukes Diskettes** — Preformatted for TI & Geneve.
DS/SD \$7 a box or DS/DD \$8 a box
- Switch Boxes**
 - 36 pin Centronics A-B (Printer) \$15 with 2 cables \$25
 - DB25-25 pin A-B (Serial) \$13 with 2 cables \$23
- TI Modules** — Educational \$9 or 4 for \$32
- Games & Business \$6 or 4 for \$20 — Call for Selection
- TI Joysticks** — \$5 a pair
- TI Keyboards** — Grey \$5 or 3 for \$12
- ★ **Modems** — 2400 Baud External \$79
- Disk Drive Cleaners** — 5¼" & 3½" \$3 or 2 for \$5

Send Check or Money Order to
Del & Darla Wright
185 N. Post Rd.
Indianapolis, IN 46219
317-895-1765

Free shipping in U.S.
Min. Order \$10
Indiana residents add 5% tax
Please include phone number
with your order.

1-800-3-4DSTUF

Line Noise and the Problems it Can Cause with File Transfers

Many people have left messages on my bulletin board asking me why there are so many 'garbage' characters on their screens and why file transfers are riddled with errors. These garbage characters are really line noise and can be introduced in many different places. One of the more common and familiar introduction points of line noise is in the telephone company's system and even here there are several ways noise is introduced. A signal is routed through multiple stations before it eventually makes it to the other end and some of these stations aren't exactly new. Older areas may have older, less sophisticated equipment that is more apt to be affected by ambient noise. This is one reason some people continue to have noise problems even after hanging up and calling back multiple times. Also, a given physical connection

at one of these junctions may not be up to snuff. If your particular bout of line noise is solved by hanging up and calling back, then it's probable that you were previously connected through an intermittent or 'dirty' connection. Some of these trunk lines (large, multi-caller 'pipes') may pass through an area that has a lot of ambient RFI (Radio Frequency Interference) present although this is not usually the case.

Another common noise introduction point is in your home. Most residential homes have televisions, radios, microwave ovens, VCR's, and if you are reading this, a micro-computer. All these devices radiate radio waves that can (and often do) get into the phone lines and cause noise. Electric motors and mechanical dimmer controls can introduce noise into the electrical wiring in your house and cause problems. If your line noise problem does not go away after repeated hanging up and calling back, then you may be suffering from one of these household problems. If you are suffering from this problem, you can take steps to eliminate it. First of all, turn off EVERYTHING except the fridge (if it IS the fridge, then you're SOL. Can't live life with your ice box unplugged) and see if the noise persists. If it goes away, then start turning things back on, checking the computer each time until you see the noise start up again. It may be that a single device is not bugging you but several devices plotting together to annoy you. This elimination tournament may take awhile.

Another area to check is your wiring at the computer. Use noise suppressors on your power connections to both the PC and the modem (if external). Use a shielded RS-232 cable to connect your modem to the PC. Ribbon cables (especially long runs of it) are great antennas and will cause problems. Re-route the RS-232 cable so it does not run next to the PC power supply or any other transformer. Many 'clone' monitors do not have internal metal shielding and can radiate lots of noise. Make sure the cable does not run near the monitor. If you are particularly adventuresome, you can line the interior of the monitor with foil and ground it with a ribbon grounding strap. Be VERY CAREFUL if you attempt this. Monitors generate THOUSANDS of volts of electricity and can knock you clear into next week. You'd best NOT attempt this unless you are experienced in electronics. If you live near a freeway or highway, then interference from CB radio can present a problem. Many interstate truckers have 100+ watts of power (illegally) on their CB rigs and frequently have sloppy amplifiers that can emit spurious radiation all over the radio spectrum.

And now a little discussion about the modem itself. First of all, I'd like to clarify a commonly misused term - BAUD. The term "Baud" is actually a man's name - J.M.E. Baudot (Pronounced: Baw-doe) a French Telegraphy expert. 1,200 and 2,400 Baud is NOT the same as 1,200 and 2,400 BPS (Bits Per Second).

The usage of "Baud" to describe line speed in terms of data through-put is incorrect. 1,200 and 2,400 BPS modems both operate at 600 Baud. Basically, without getting to technical, a Baud is a "blip" of information. 1,200 BPS modems use four states per blip (or Baud) and 2,400 BPS modems use sixteen states per blip. If you want more information on what Baud and BPS mean and a full explanation of how data is actually represented and transferred by the modem, please refer to PC Magazine Volume 4, Number 9 (May 12, 1987).

Modems operating at 2,400 BPS are much more intolerant of line noise than are modems operating at 1,200 BPS. Conversely, modems capable of 2,400 BPS operate better at 1,200 BPS than do 1,200 BPS only modems. If you are being hopelessly attacked by noise at 2,400 BPS, trying calling back at 1,200 BPS. It's very possible that the noise will be greatly reduced or disappear altogether. I know, you didn't buy a 2,400 BPS modem just to retard it to 1,200 BPS. The brand of the modem plays a part in the immunity to line noise. Some modems can digest more noise (lower signal-to-noise ratio) than others. PC Magazine (same issue mentioned above) ran a test on 87 different modems. You might check the results to see how your modem ranks. Most 2,400 BPS modems operating at 1,200 BPS have approximately -8 to -10 db error threshold while the same modem has about -14 to -20 db threshold operating at 2,400 BPS. For this reason, line quality is much more critical at 2,400 BPS operation.

Additionally, a friend of mine who runs a bulletin board from their office has been plagued with line noise problems at 2,400 BPS but very little noise at 1,200 BPS. The culprit is the office's centralized telephone system. Many office buildings have a given number of trunks that actually enter the building while there may be many, many more extension within the building. These types of telephone systems have their own controllers and line assignment devices and are frequently not as high in quality as a hard-wired MaBell line. The acceptable signal-to-noise ratio in some of these inter-office phone controllers are lower than necessary for reliable 2,400 BPS operation but not too low for 1,200 BPS.

If you gets transmission errors while downloading or uploading a file, don't fret it. The Xmodem (or whatever protocol) incorporates an error checking/correction mechanism that automatically detects and corrects any errors that may occur during transmission. The very fact that Xmodem reported the error in the first place means that he caught it and corrected it. The only errors you have to worry about are the ones that Xmodem does NOT report. Any reported error has already be corrected. Xmodem, especially the CRC flavored one, is a very reliable file transfer protocol. Even if you got 100 errors during transmission, chances are still pretty slim that the file got corrupted. Occasionally, a file will be corrupted after transfer, but many times this may be due to a bad ARChing of the file or perhaps a disk error that may have occurred sometime during the files' past.

I hope this text helped explain some facts about modems, line noise, and file transfers. If you have other, more specific questions, concerning modems or communications in general, leave a Comment to the SYSOP on the PC Consultant. I'll try to answer them.

the PC Consultant
SYSOP: Robert K. Ricketts
P.O. BOX 42086
Houston, TX 77242-2086

Node 1 (713)270-7408 - Free and open to all.
Node 2 (713)270-8129 - Contributors only.

Modem Noise Killer (alpha version)

With this circuit diagram, some basic tools including a soldering iron, and four or five components from Radio Shack, you should be able to cut the noise/garbage that appears on your computer's screen.

I started this project out of frustration at using a US Robotics 2400 baud modem and getting a fare amount of junk when connecting at that speed. Knowing that capacitors make good noise filters, I threw this together.

This is very easy to build, however conditions may be different due to modem type, amount of line noise, old or new switching equipment (Bell's equipment), and on and on. So it may not work as well for you in every case. If it does work, or if you've managed to tweak it to your computer/modem setup I'd like to hear from you.

I'd also appreciate any of you electronic wizzards out there wanting to offer any improvements. Let's make this work for everyone!

Please read this entire message and see if you understand it before you begin.

OK, what you'll need from Radio Shack:

1 #279-374 Modular line cord if you don't already have one. You won't need one if your phone has a modular plug in its base. \$4.95

1 #279-420 Modular surface mount jack (4 or 6 conductor) \$4.49

1 #271-1720 Potentiometer. This is a 5K audio taper variable resistor. \$1.09

1 #272-1055 Capacitor. Any non-polarized 1.0 to 1.5 uf cap should do. Paper, Mylar, or metal film caps should be used, although #272-996 may work as well. (272-996 is a non-polarized electrolytic cap) \$.79

1 100 ohm resistor - quarter or half watt. \$.19

1 #279-357 Y-type or duplex modular connector. Don't buy this until you've read the section on connecting the Noise Killer below. (A, B, or C) \$4.95

First off, open the modular block. You normally just pry them open with a screwdriver. Inside you'll find up to 6 wires. Very carefully cut out all but the green and red wires. The ones you'll be removing should be black, yellow, white, and blue. These wires won't be needed and may be in the way. So cut them as close to where they enter the plug as possible. The other end of these wires have a spade lug connector that is screwed into the plastic. Unscrew and remove that end of the wires as well. Now, you should have two wires left. Green and red. Solder one end of the capacitor to the green wire. Solder the other end of the capacitor to the center lug of the potentiometer (there are three lugs on this critter). Solder one end of the resistor to the red wire. You may want to shorten the leads of the resistor first. Solder the other end of the resistor to either one of the remaining outside lugs of the potentiometer. Doesn't matter which. Now to wrap it up, make a hole in the lid of the mod block to stick the shaft of the potentiometer through. Don't make this hole dead center as the other parts may not fit into the body of the mod block if you do. See how things will fit in order to find where the hole will go. Well, now that you've got it built you'll need to test it. First twist the shaft on the potentiometer until it stops. You won't know which way to turn it until later. It doesn't matter which way now. You also need to determine where to plug the Noise Killer onto the telephone line. It can be done by one of several ways:

A. If your modem has two modular plugs in back, connect the Noise Killer into one of them using a line cord. (a line cord is a straight cord that connects a phone to the wall outlet. Usually silver in color)

B. If your phone is modular, you can unplug the cord from the back of it after you're on-line and plug the cord into the Noise Killer.

C. You may have to buy a Y-type modular adaptor. Plug the adaptor into a wall outlet, plug the modem into one side and the Noise Killer into the other. Call a BBS that has known noise problems. After you've connected and garbage begins to appear, plug the Noise Killer into the phone line as described above. If you have turned the shaft on the potentiometer the wrong way you'll find out now. You may get a lot of garbage or even disconnected. If this happens, turn the shaft the other way until it stops and try again. If you don't notice much difference when you plug the Noise Killer in, that may be a good sign. Type in a few commands and look for garbage characters on the screen. If there still is, turn the shaft slowly until most of it is gone. If nothing seems to happen at all, turn the shaft slowly from one side to the other. You should get plenty of garbage or disconnected at some point. If you don't, reread this message to make sure you've connected it right.

END OF ORIGINAL FILE

ADDITION TO ORIGINAL FILE - 2/29/88 - Mike McCauley - CIS 71505,1173

First, a personal recommendation. THIS WORKS!!! I have been plagued with noise at 2400 for some time. I went round and round with Ma Bell on it, and after they sent out several "repair persons" who were, to be kind, of limited help in the matter, I threw in the towel. I saw this file on a board up east a few days ago, and thought I'd bite. Threw the gismo together in about 10 minutes, took another five to adjust the pot for best results on my worst connection, and guess what? No more worst connection! A few pointers:

- 1) The pot need not be either 5K or audio taper. I used a 10K 15 turn trim pot. Suggest you use what is handy.
- 2) I used 2MFD's of capacitance (two 1MFD's in parallel) Two R.S. p/n 272-1055 work fine. Remember that about 90 Volts will appear across red & green at ring, so the caps should be rated at 100VDC+.
- 3) I ended up with a final series resistance value (100 ohm + pot) of 2.75K. I speculate that one could probably use 2MFD and a fixed 2.7K resistor and do the job 90% of the time. The adjustment of the pot is not very critical. Changes of +/- 1K made little difference in the performance of the circuit.

Hope it works as well for you as it did for me.

Mike McCauley

HUG OFFICERS

President	Gregory Larson	783-4575
Vice Pres	Bryant Pedigo	255-7381
Secretary	Dan H Eicher	241-994A
Treasurer	Fred Edstrom Jr	898-7300
Librarian	Bryant Pedigo	255-7381

Personal News Byte

It comes to our attention that, Mrs. Lett, the wife of George Lett, of Marion is ill. George is a long time member of the Hoosier Users Group.

Our thoughts and prayers are with you, Mrs. Lett, for a speedy and complete recovery.

SPEECH CARD

I READ THE ARTICLE BY AL BEARD OF THE 9T9 USERS GROUP IN THE JANUARY 1993 HUGGERS NEWSLETTER. THE ARTICLE "TALES OF A POWER SUPPLY" HAS TO DO WITH INSTALLING A NEW POWER SUPPLY IN THE PEB.

IN THE COLUMN TITLED "RESULTS", HE DESCRIBES HAVING TO MODIFY THE CARDS AND MAKES AN INCORRECT STATEMENT AS FOLLOWS: "--AND A SPEECH SYNTHESIZER CARD (SOMEWHAT USELESS IN THE GENEVE UNTIL THE NEXT MDOS RELEASE)."

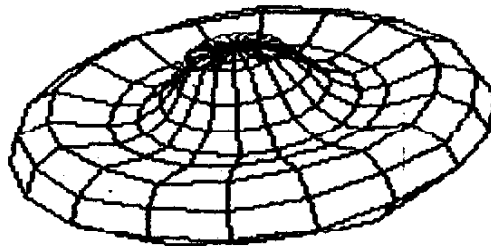
IF A PERSON WAS THINKING OF BUYING A GENEVE OR A RAVE SPEECH CARD TO ADD THE SPEECH CAPABILITY TO THEIR GENEVE, A STATEMENT LIKE THIS CAN BE A CONFUSING STATEMENT. I RECALL HOW I WAS THINKING OF THE LOSS OF SPEECH WHEN I PURCHASED MY GENEVE BEFORE I BOUGHT MY RAVE SPEECH CARD.

SO, JUST TO CLEAR UP THE CONFUSION CAUSED BY THIS KIND OF STATEMENT. A SPEECH CARD IN WHICH THE SPEECH CAPABILITY IS ADDED TO A GENEVE WILL WORK EXACTLY THE SAME AS THE SPEECH SYNTHESIZER ON THE SIDE OF THE TI CONSOLE. GAMES, SUCH AS STAR TREK, PARSEC, AND SPEECH EDITOR, ALL FUNCTION AND GIVE SPEECH WHEN USED WITH A SPEECH CARD AND A GENEVE OR A SPEECH CARD IN THE PEB AND THE SMALL TI CONSOLE. YES, IT IS THE SAME SPEECH AS YOU GET WITH THE SPEECH SYNTHESIZER PLUGGED INTO THE TI CONSOLE. ALSO, IF YOU PROGRAM OR HAVE AN EXTENDED BASIC PROGRAM WITH SPEECH IN IT, THE SPEECH WILL FUNCTION AS IT SHOULD. I REALLY HATE TO SEE PEOPLE MAKING LOOSE STATEMENTS BLOCKING THE GENEVE AND TI WHEN THEY MAY BE TALKING ABOUT A CERTAIN SET OF CONDITIONS.

MANY OF THE BAD THINGS THAT I HEARD ABOUT THE TI LONG AGO HAVE PROVED TO BE WRONG.

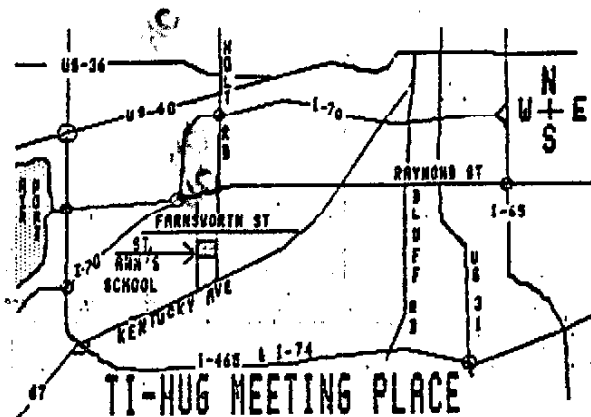
WHEN I TYPED THIS AND RAN IT THRU THE COLUMNIZER OF PAGEPRO IT MADE AN ERROR. I FOUND AT THE LOCATION OF THE ERROR THAT A CR RETURN MARK WAS NOT VISIBLE. I KNOW THAT I HAD MADE A LINE INSERT AND APPARENTLY THE COMPUTER PUT AN INVISIBLE CR MARK AT THAT LOCATION. SO, TO CORRECT THE ERROR I PUT A VISIBLE CR MARK. IF YOU HAVE FORGOTTEN HOW TO DO THIS, PUT THE CURSER WHERE YOU WANT THE CR MARK. THEN, PRESS CTRL U THEN SHIFT M THEN CTRL U. THAT FIXED THE PROBLEM AND THE RESULTING FILE THEN WAS PROPERLY COLUMNIZED.

ROGER PRICE, 1015 RIVER DRIVE, MARION, INDIANA, 46952 INDIANAPOLIS HUGGERS. PAGEPRO-COLUMNIZER.



GRAPHIC PRODUCED BY THE GEOMETRIC APPRENTICE

REMEMBER MARCH IS SWAP MEET MONTH



Annual membership is \$19.00
Due in May
New membership is prorated as follows:
April - \$20.00
May - \$18.50
June - \$17.00
July - \$15.50
August - \$14.00
September - \$12.50
October - \$11.00
November - \$10.00
December - \$9.00
January - \$8.00
February - \$7.00
March - \$6.00
April - \$5.00
Annual + \$21.50

Name: _____ Today's Date: _____

Address: _____ Apt. # _____

City: _____ State: _____ Zip: _____

Phone: (____) _____ - _____

Interests/Comments: _____

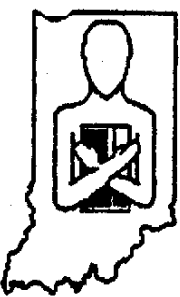
(Cut on dotted line)

Below, you will find an application for membership to the Hoosier Users Group. Active membership entitles you to the Newsletter, and download on the HUCbbs, attendance and voting rights at regular club meetings, access to the HUCger Library of Programs, special club activities and special guest speakers for one year.

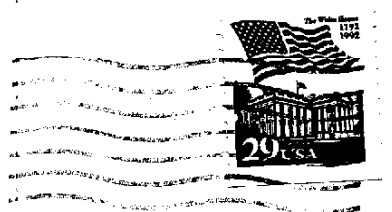
Make check or money order payable to Hoosier Users Group. Send completed application to:

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

APPLICATION FOR MEMBERSHIP



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



TIME DATED
March 21, 1993
MATERIALS

May 1993

Dan H. Eicher
524 Howell Lane Apt. C
Indianapolis, IN 46224

Hoosier Users Group BBS
317-782-9942 300-2400 8N1
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