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THE HUGgers HOOSIER USERS GROUP People Helping People

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January/February 1996

The HUGgers Newsletter

Volume 15 Number 1

Editors Note:

On page 8 is an advertisement for the Hoosier User's Group. If you have access to any community bulletin boards, such as at librarys, shopping centers, etc., we would like to encourage you to post a copy of this advertisement. Perhaps doing so could bring in some new members....

Also of interest, the Indiana Hamfest is coming up on March 10, 1996 at the Indiana State Fairgrounds.

Tenitive HOOSIER USER'S GROUP meetings.....

Jan	21,	1996	Ju1	21,	1996
Feb	18,	1996	Auq	18,	1996
Mair	17,	1996	Sep	15,	1996
Apr	21,	1996	Oct	20,	1996
May	19,	1996	Nov	17,	1996
Jun	16,	1996	Dec	15,	1996

Hoosier User's Group meets at the White house next to St. Ann's School on south Holt Road. Doors open to the public at 2:00 pm. We support the Texas Instruments 99/4A and the Myarc 9640 Geneve computers.

Chicago TI International World Faire October 28, 1995. Evanston Public Library.



Bits, Bytes & Pixels

THE REARING OF FUNNELWEB'S FILES by Charles Sood Lima Dhio User Group

Listed below are the Funnelmeb files on our two 3 disk sets of complete 40 and 80 column sets. Next to each file is Charles Good's DSKU comment detailing the function of that particular file. These are all the current files from v4.4 and v5.01 for 40 columns, and from v4.4 and v5.21 for 80 columns. Any of the original v4.4 files not listed below are now obsolete. Any user can obtain either or both of these 3 disk sets by sending 3 disks and a paid return mailer to me at P.O. Box 647, Venedocia Ohio 45894.

40 Column files, Disk 1 of 3. Hain system files Filename TYPE Comment

```
AS
           PSM Assembly code ASSEMBLER part 1
AT
           PSM Assembly code ASSEMBLER part 2
Ct
           PGM Char set for use by central menus
C2
           PBM Another than set for central menus
CF
           P6H Configures all funnelmeb but editor
Cb
           P6M part 2 of funnelweb congfig program
(MOTE: 8 bit char sets have All Chars graphics)
CHARE1
           POR USA 8 bit IBR graphics char set
CHARE2
           PGM British 8 bit IBM graphics charset
CHARD3
           PGM French 8 bit IBM graphics char set
CHARE4
           PSM German 8 bit IBM graphics char set
CHARES
           PGR italian B bit 1BM graphics char set
CHARGA
           PGM Swedish 8 bit IBM graphics char set
CHARS?
           PGM Dutch 8 bit IBM graphics char set
CHARGE
           P6M Spanish 8 bit 18M graphic char set
(NOTE: These 7 bit char sets used in Eurowriter mode)
CHARA1
           PGM British 7 bit national char set
CHARBI
           PER French 7 bit national char set
CHARCI
           PSM Serman 7 bit national char set
CHARDE
           PSM Italian 7 bit national char set
CHARE 1
           PGM Swedish 7 bit national char set
CHARF 1
           PSN Dutch 7 bit national char set
CHAR61
           PGM No Spanish nationa 7 bit char set
CONF16/40 D/V Expanded editor config data file
           PGM "Disk Utilities" user list
DR
          P6H 40 column Disk Review, part 1
08
           PSM 40 column Disk Review part 2
EA
          PSH Needed on disk for FW loaders work
ED
           PGM 8 bit v5.01 40 column editor, part 1
          PSH B bit v5.01 40 column editor, part 2
FATIRE
           PBM British 40 column editor command line
F4T1BE
          PGM French 40 col editor command line
FATICE
           PSM Serman 40 col editor command line
FATIRE
          PGM Italian 40 col editor command line
FATTEE
           PSM Swedish 40 cal editor command line
FATRFE
        . PSM Dutch 40 col editor command line
FO
          PGN Text formatter part 1
FP
          PGM Text formatter part 2
FN
          POM MAIN FW PROGRAM FILE, boots as EAS
```

```
HELPAA
              PGM 40 cal help screen
   HELP48
              PSM 40 cal help screen
   HELP4C
              PSM 40 col help screen
   HELP4D
              PSM 40 cal help screen
  HELP4E
              PSN 40 col editor help screen
              PGM 40 col editor help screen /
  HELP4F
  HELP46
             PGM 40 col editor help screen
   HELPAH
              PGM 40 col editor help screen
             PGN 40 cal editor help screen
  HELP41
  HELP4J
             PGM 40 cal editor help screen
  INSTALL/ED PSM 40 col editor config software
              PGM LOW LOADER, needed to boot LL files
  LOAD
             PEN MAIN FW PROGRAM FILE, boots from XB
  ML
             PGM 40 column MULTI LIST user list
  80
             PEN QUICK DIRECTORY, use with formatter
  QF
             PSM part 2 of QUICK DIRECTORY
  SL
             PSM Needed to boot script load files
SYSCON
             PBM CF/CS configuration data file
             Pon Centeral menu "User List"
  40 column files. Disk 2 of 3. Other system files, docs
  Filename Type Comment
  -READ-ME D/V General v4.4 overview doc
  414REVIEW B/V C. Good's review of v4.4
  APRINTFILE D/V Sample source for editor help file
  5-01REVIEW D/V C Good's review of v5.01 editor
  5-OREVIEW D/V C Good's review of v5.0 editor
             PER Archiver v3.03
  CTTPFLIO
             D/F Used with C99 from within funnelmeb
  CHARAL
             PSN Char set for use with DSKU
  CHARUTIL
             PER Converts custom chars to 8 bit set
  CHRCOAL/S D/V Char set source code sample
  CON/ED
             D/V Condensed editor config data file
CP
             PGN Boots c99 & returns to funnelmen
  CT8K/D
             D/F Soots funnelweb from supercart
  DU
             PGM Birdwell's DSKU v4.2 part 1
  ħΨ
            PSH DSKU v4.2 part 2
· DW
             PSM DSKU v4.2 part 3
             PGM Basic 7 bit 40 col editor, part 1
  EE-BASIC
             PSM Basic 7 bit v5.01 40 col editor pt2
             D/F SAVE utility to make EAS programs
  FWDOC/EASH D/V PROGRAM EDITOR doc
  FWDOC/LOAD B/V The XB LOAD menu doc
  FWDOC/REPT D/V Bug and update report of FW & LOAD
  HELPHAKE40 PGM Turns DV80 source into 40col ed help
  LDFM
             D/F Boots FW from Minimem or EA module
```

PGM DM1000 v3.5 part 2 SCRIPT D/V Sample SL file 1B47HLD PSH Boots TI FORTH from 18 many 40 column files. Disk 3 of 3. Bocumentation files Filename Type Comment

PGW DM1000 v3.5 part 1 of 2

MS

MM

FWDOC/DR40 B/V 40 cal Disk Review doc pt 1 FWDDC/DR41 D/V 40 col Disk Review doc part ?

Bits, Bytes & Pixels

```
FWDOC/EASH D/V PROGRAM EDITOR doc
 FWDOC/ED40 D/V v5.01 40 col editor doc part 1
 FWDOC/ED41 D/V v5.01 40 col editor doc part 2
 FWDOC/ED42 D/V v5.01 40 col editor doc part 3
 FWDOC/PSRV D/V Assembly links to FW doc
 FWDDC/SCLL D/V SL.UE.LL, and ML40/80 doc
 FWDOC/UTIL D/V CF.CP.FSAVE.LDFW.UL.LH.CT8K/D doc
 ********
 BO column system/Disk 1 of 3. Main system files
 Filename Type Comment
            PSM Assembly code ASSEMBLER part 1
 AT
            PGM Assembly code ASSEMBLER part 2
 CI
            PSM Char set for use by central menus
 C2
           PSH Another char set for use by central
 CF
            PGM Configures all funnelweb but editor
 CG
           POM part 2 of funnelweb congfig program
 (NOTE: The 8 bit char sets have IBM graphics)
           PSM USA 8 bit IBM graphics char set
 CHARUZ
           PGM British 8 bit IBM graphic char set
 CHARES.
           PGM French 8 bit 18M graphic char set
 CHARV4
           PSN German 8 bit IBM graphic char set
L'HARRS
           PBM Italian 8 bit IBM graphic char est
CHARWS
           PBM Swedish 8 bit IBM graphic char set
CHARMY
           PBM Dutch 8 bit 18M graphic char set
CHARRS
           PGM Spanish 8 bit IBM graphic char set
(NOTE: 7 bit char sets are for Europeiter ende)
CHANA1
           P6M USA 7 bit char set
CHARBI
           PGM British 7 bit national char set
CHARC 1
           PGM French 7 bit mational char set
CHARDI
           PBM German 8 bit national char set
CHARE 1
           PEN Swedish 7 bit national char set
PHADEL
           PGR Dutch 7 bit national char set
CHAR61
           PSM Spanish 7 bit national char set
be
           PGM 80 column Disk Review part 1
DE
           PSM 80 column Disk Review part 2
EΑ
           PSM Needed on disk for FW loaders work
ED
           PSH v5.21 80 column editor, part 1
EE
           PSR v5.21 80 column editor part 2
           P6M v5.21 80 column editor part 3
EF
FRITRE
           PBM French command line for v5.21editor
FRIICE
           PSH German command line for v5.21editor
FRITEE
           PGM Swedish command line for 5.21editor
FD
           PSM Text formatter part 1
FP
           PGM Text formatter part 1
FW
           PON MAIN FW PROGRAM FILE, boots as EAS
HELPBP
           D/V Program editor help file for v5.21
HELP8W
           D/V Text editor help file for v5.21
LDAD
           PER MAIN FN PROGRAM FILE. boots from IR
ML
           PEM 80 column MULTI LIST user list
29
           PEN GUICK DIRECTORY use with foreatter
DF
           PhM part 2 of QUICK DIRECTORY
SYSCON
          PSM CF/C5 configuration data file
UŁ
           PSM Centeral menu "User List"
```

filename Type Comment 5-01KEVIEW D/V C Good's review of v5.01 editor AR PSM No Archiver v3.03 C99PF1:0 D/F Used with C99 from within funnelweb CHARAL PSN Char set for use with DSKU CON/ED D/F Short version of CONFIG/ED . CONFIG/ED D/V Configuration data/use with INSTALL80 P6H Boots c99 & returns to funnelmeb CP CT8K/0 D/F Boots funnelweb from supercart PSM DSKU v4.2 part 1 DU DV P6M DSKU v4.2 part 2 DW PGM DSKU v4.2 part 3 FSAVE D/F SAVE utility to make EAS programs FWDOC/E128 B/V Doc for v5.21 80 caluen editor INSTALL80 PSM Configures v5.21 80 col #ditor LDFW D/F Boots FW from Minimem or EA module

PEN LINE HUNTER assembly utility

PSM LOW LOADER, needed to boot LL files

PGM Needed to boot script load files

80 column system/Disk 2 of 3. Other system files, ed doc

80 column system/Disk 3 of 3. Docs Filename Type Comment

PGM DM1000 v3.5

P6M DM1000 v3.5

D/V Sample SL file

1841MLD PSM Boots 11 FORTH from 18 menu

LH

LL

M6

MH

SCKIPT

SL

FREAD-RE

D/V Seneral v4.4 overview doc

4844KEVIEW

D/V C. Sood's review of v4.4

FNDUC/DR80 D/V column Disk Review doc

FNDUC/DR81 D/V column Disk Review doc

FNDUC/DR82 D/V column Disk Review doc

FNDUC/LOAD D/V The IB LOAD menu doc

FNDUC/LOAD D/V The IB LOAD menu doc

FNDUC/PSRY D/V

FNDUC/SCLL D/V SL,UL,LL, and HL40/80 doc

FNDUC/UTIL D/V CF.CP.FSAVE.LDFW.UL.LH.CT8K/0 doc

##DONE##

HUG S&T BBS Hoosier User's Group 300/1200/2400/4800/9600 Baud, 24 Hours Daily 317-782-9942 8N1

Now with 80 Megs Storage

This is taken from a series of messages on the Chicag EBS and has been edited for use on the HLG bbs. William M. Lucid, Co-sysop HLG EBS

Msg#: 11 *Announcements*

95/12/18 11:24:40 pm (Read ** times)

From: Michael Maksimik #1

To: ALL

Subj: protocols

Here is a guide for all users to connect to this bbs...

If your computer is a TI99/4A, use TERMBO (a new emulator which I am currently evaluating) or TELCO, or Mass Transfer. TELCO has some nice windowing features, and it supports 80 column cards using the V9938/V9958 video processors. Mass Transfer, in all it's inceptions, has some unique file transfer protocols for sending bunches of files to/from the BBS.

TERMSO supposedly allows ANSI cursor emulation, in 80 columns using a standard TI display. If you have a standard V.22 1200 baud modem, should be able to connect to this bbs with no trouble. Bell 103 modems (300 baud) are also supported, but for your phone bill's sake, upgrade! V.22bis (2400 baud) will work with the TI, but it is really the limit that the TI can display easily unless you have some type of processor upgrade, or hardware flow control (RTS/CTS signals from modem get controlle from the terminal program to prevent loss of data) I have tested TELCO at 4800 baud, and it is marginal. Super Mass Transfer, 80 columns and ANSI monochrome, is better suited to 4000 baud/9600 baud. Some 2400 baud modems have the data compression feature and this allows a terminal rate higher than the line rate. DJ, you have such a v.22 modem (2400)carrier. but V.42/V.42bis error correction and data compression)

Such a modem (2400 line rate, with compression and error correction) needs a higher host rate so it efficiently compresses/decompresses and corrects errors with no overrun errors. On such

a modem, make your terminal rate 7600 baud, which is 4 times the line rate. IT is rare that the modem will generate long sequences of 9600 band data, but the decompression can produce bursts of 9600 baud packets, esp. with text data which is highly compressable. Make sure you use ITU-T V.42/V.42bis (or LAP-M) protocols. Don't use protocol unless you to for have maintaining a stable connection. phone lines now can handle higher baud rates, and since this EBS supports a maximum carrier of 14,400, you may want to invest in at least a modem of this Computer faires are practicall giving away V.22bis/V.42bis modems (2400) baud modem with compression)

The TI and 9600 baud

It is very difficult for the TI to keep up with 9600 baud, not that it is a slow computer, but because most terminal programs use the video circular buffer for receiving characters. When a character is sent through the RS23 port, the interrupt routine will grab the character, and put it into the vide RAM. This is the secret of how TE-I. works.

TI is slow in this routine for a comple of reasons. First, there is only CNE IRO line to receive interrupts from ALL peripherals. A second line was planned for the TI99/8, and an interrupt ID scheme WAS developed but implemented, allowing faster detection of the interrupt. The problem occurs when an interrupt is detected, the TI does not know which peripheral generated it. It must then turn on each card and pass control to the card so that if can check itself for a possible intermupt.

Some cards implement an interrupt routine consisting only of a return instruction, other cards actually check for a data byte. The RS232 card checks for interrupts on EVERY port (serial and parallel ports) and if you have two RS232 cards, that means sis ports are checked for an incoming character. If you have a DIGIT video card, it also ha an interrupt routine, and generally. It cards are scanned.

Some cards (like the Myarc 512k card) does some type of bank switching on interrupts, the buttom line is that the computer is doing a lot of unnecessary searchine for one little character, which takes a lot of processor time.

The problem is compounded when we actually get the character, we need to store it somewhere. Well, the TI wasn't made with any large amount of CPU ram, so we must store it in slow VDP ram....

VDP RAM access is byte oriented, and it is pretty slow. Having a faster video (even if it is in 40 column mode) helps...a V9938/V9958 processor is a much better choice because it can handle data faster from the CPU.

You can also do some other things to speed system up a bit:

- 1) Get the WHT keyboard module, which includes an updated system ROM, containing a much better interrupt scanning routine. It is more efficient than the old console routine, and the new unit allows use of new FC keyboards (101/102 key keyboards), and it adds some usable system memory.
- 2) You can boost processor speed during terminal I/O by having a switchable 16 MHz crystal. The TI uses a 12 or 48 mhz crystal. The 48 Mhz crystal is used with the TIM9904 chip. You can substitute a TIM9904A, and use the 12 MHZ crystal instead, and use a switch to "turbo" the system to 16 mhz. Be aware that this will screw up baud rates, so allows a custom TOLCO, which calculated band rate taking into account the increase in system clock speed.
- 3) Use some flow control. Although there are no terminal programs available which use flow control (TERMBO may use it, I haven't found out yet) this allows a high line rate, and controlled terminal rate so you don't lose data, and it is easier to start/stop the flow of data.

On the Geneve, I have been able to use Super Mass Transfer in GPL mode, with much better results. In fact, if you combine this with TEXEC, which is EXEC modified to allow use of a single interrupt input from ONE RS232 port (serial port 1) then the only scanning done on interrupt (EXTINT) will occur to serial port 1. This devotes more processor time to useful scanning for characters, and you can actually connect at a rate of 9600 (true rate) with a line rate of 9600 if you like. I have tried higher rates, but TEXEC doesn't really keep up at higher that 12,000 bps, and many modems don't allow those terminal rates.

You have to understand that line rates (300,1200, 2400, 4800, 7200, 9600, 12000, and 14,400) are rates negotiated on the line itself, between the two modems. Your terminal rate must be one of the following (300, 1200, 2400, 4800, 9600, 19200, 38400, 57600, 115,200)

If your modem connects at 14400 bps, you must have a terminal rate of at least 19200, to allow for software compression and error correction to work properly. Since at these rates, interrupts for programs like TELCO, MASSBO, superMASSBO, GEN-TRI, etc. usually fail, you must keep the rate at 9600.

If you implement flow control on the modem, this forces the modem to buffer data while the computer is busy. On PC's, the buffer is usually built into the 16550AF uart, which has a 16, 32 or 64 byte buffer for receiving character overruns when the CPU is busy doing something else, like drawing a screen. For our geneve, we have no buffer and the CPU must read each character before the next one comes in or we lose data.

Tim has made PORT work with the interrupt routine in native MDOS mode, using high speed system memory to allow successful interrupt scanning and video (monochrome) update. Color screens at that high speed require a generally video mode. and æ color interpreter. So you need to enable FLOW CONTROL and the modem must support this feature if it a high speed modem. your modem has HARDWARE FLOW SLIFE CONTROL, which uses the R5232 pins 4 and 5 to control the flow of data.

This will allow you to use FORT's

enhanced color ANSI features and high speed YMODEM-G file transfer routines, and also high baud rates which most new modems use and require for successful data compression and error correction. I normally run FORT at 30,400 with full flow control using the "MIKE" cable design.

TI	 moden
2	
3	 2
5	 20
7	 7
8	 4
20-	 5

The pin 2 is data from rs232 card to modem pin 3 is data from modem to rs232 card pin 5 of rs232 is used to control DTR signal on modem, for fast hangup pin 7 is ground on both modem and rs232 card pin 8 of rs232 represents request to send flow control. Internally, the TI rs232 has one lead cut, and jumper soldered. This allows PORT additional control line to switch this wire on and off independently of whether or not we want to send data. This line is like a faucet which shuts off the modem from sanding us data, and the modem can thereby tell the remote system to stop sending data in turn. pin 20 of the TI is the inbound clear to send flow control. It is used by the modem to stop the Ti rs232 from sending data. If the modem encounters a line error, or if the distant modem stops flow, then this

The distant modem may encounter errors, or the modems may negotiate data packets : or may be in the process of rangino-These situations must prevent eith system from sending data so both clear to send lines on both ends deactivated, These lines (RTS and CTS) are very important, because they allow a faster serial device to access a slower computer or host, and the flow lines prevent loss of data. They allow your computer to accept data as fast as it can receive and they allow your computer to send data as fast as the remote system can handle reception.

Jeff's cable design is similar to mine, but he uses pin 5 to activate the flow control, and pin 8 is used to handle DTR hangup, or you just disable DTR hangup in other programs which toggle that line during transmission.

In other words, if you use TELCO and FORT, with jeff's cable, you have to disable DTR hangup in TELCO and use the three plus character and ATH to hangumark My cable (mike) does not require this change and you can still use DTR hangup in FORT, Mass Transfer, and TELCO with no changes.

Jeff's cable design is ideal for those who have a non-Ti card, and who do not wish to make the mod to their rs232 card to add the extra CRU line.

Msg#: 342 *General Messages*

95/11/08 12:32:33 am (Read 13 times)

From: William M. Lucid #1

To: ALL

Subj: v9t9 Cables

The Hoosier User's Group has eight cables left from the Chicago Faire that are for use with Edward Swartz's v9t9 (TI Emulator) program. These cables are 15 foot serial cables with male/female connectors, plus an special adapter for proper handshaking. Cable and adapter are required for dumping rom/grom from TI 99/4A sytem to the IBM pc. Price of the cable is \$20.00. Shipping and handling \$5.00 or pick at a HUG meeting for no shipping and handling.

If you are not in the Indianapolis area, order from William M. Lucid, 6005 Elaine Street, Speedway, IN 46224-3032.

Make check or money order out to: Hoosier User's Group.

These adapters have been tested and known to be functional. Bye now before they are gone!!!

* ORIGIN: HUG TI 99/4A BBS (317)-782-9942 / 9N1 / 24 hours [0/0:0]

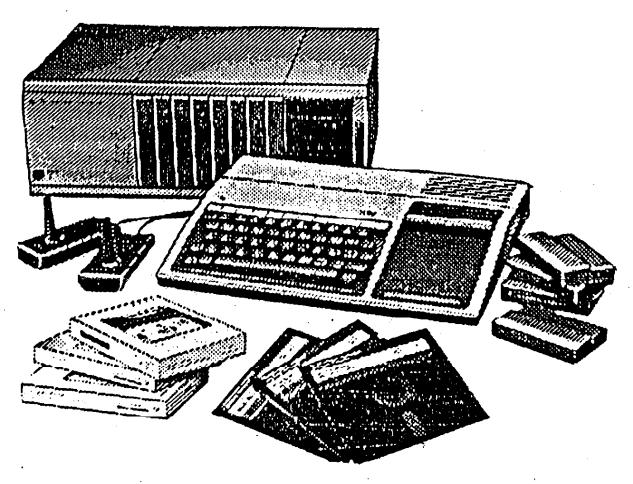
MULTIPLAN

CONTROL COMMANDS

HOME TAB NEXT NEXT NEXT REL/	CEL					
TAB BACK NEXT WORD WORD WORD WORD WORD						
CURSOR S D F G HI J BACK CHAR	1					
Z X C V B N M						
CTRL	CTN					
FUNCTION COMMANDS						
LOWER BACK BACK HELP RECALC BACK DEL RIGHT SPACE NEXT 1 2 3 4 5 6 7 8 9 0	=					
MENU COMMANDS						
Q W E R T Y U I D P						
IALPHA SORT DELETE FORMAT GOTO HELP LOCK NUMERC A S D F G H J K L						
XTERN COPY VALUE BLANK NAME MOVE						
CTRL .	CTN					
Pointer Movement Error Values						
Cell Window #DIV/O! Attempt to divide by 0 *** **Price - E - Ctrl						

HUG OFFICERS (Area cod	le 317)
President Ricky Bottoms	392-2312
Vice Pres Bryant Pedigo	255-7381
Secretary Greg Larson	783-4575
Tresurer Greg Larson	783-4575
Librarian Byrant Pedigo	255-7381

Recognize Me?



If you want to know more about me, contact the

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

For more information, contact (317) 783-4575

Msg#: 49 *For Sale Messages* ***Edited for Newsletter***

95/08/02 08:30:50 pm From: Steven Bundy #324

To: ALL

Subj: TI 99/4A Computer

I have a TI 99/4A computer and accessories for sale. Also a Gramkraker and manuals. Also a large number of programs and TI modules. Call me for prices or call and make me an offer.

My phone number is 317-462-2127.

Msg#: 55 *For Sale Messages* ***Edited for Newsletter***

95/11/22 02:52:14 pm

From: Fred Edstrom, Jr. #10

To: ALL

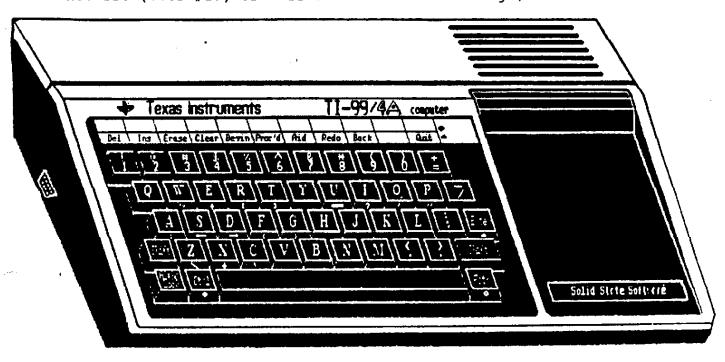
Subj: Selling of TI 99/4A System

I'am selling all my TI 99/4A system with the following items:

Black and Silver TI 99/4A console

P-box, Flexcable interface, RS232, MBP Clock with analog to digital functions, Corcomp Disk Controller (Double density capability), three full height DS/DD disk drives (two in a external IBM disk drive enclosure), Modem cable for Zoom modem, Hitachi 14 inch color monitor.

Have many modules and manuals included. All computer items are in working order and can be seen upon request. Please contact on HUG BBS (User #10) or call 317-898-7300. Asking \$200 or o.b.o.



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Kenewals:	•	
	City/State	
00.22\$	Phone, number	

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

Make check or money order payable to Hoogier Users Group, Send completed application to:

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 nghts at regular club meetings, access to the HUGger Library of Programs, special club activities and special guest speakers for one year.

APPLICATION FOR MEMBERSHIP



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

Forwarding and Address Correction Requested



TIME DATED
January 27 1996
MATERIAL

May 1996

Dan H. Eicher 2720 Palo Verde Ct. Indianapolis, IN 46227

Hoosier User's Group S&T BBS 300/1200/2400/4800/9600 Baud 8N1 317-782-9942 24 Hours Daily