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March 1991

The HUGgers Newsletter

Volume 10, Number 3

This newsletter will be real short. No one has contribited any news. I taken articles from other newsletters that we received, and tried to put something together. So here goest

First things first. Last month we held the elections. The new officers are:

PRESEDENT: VICE PRESEDENT/LIB.: Bryant Pedigo

Cary McQuade

SECRETARY:

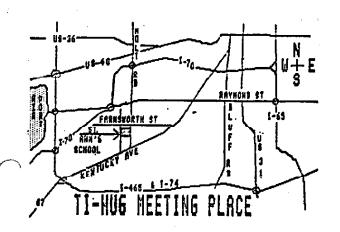
Jeff Overton

TREASURER:

EDITOR:

Walter Farmer

MONTHLY MEETING LOCATION LITTLE HOUSE NEXT TO THE ST. ANN'S SCHOOL 2839 S. M⊂CLURE INDIANAPOLIS, IN MEETING STARTS AT 2:00 P.M. MARCH 17, 1991



BITS AND PIECES

This will be a new section in your HUG NEWSLETTER. It is intended mainly for thoses of you that do not have access to the BBS.

Ιt will be items taken from the message base, but if you wish to send something that you think would be of interst to the members you can mail it. I pick up the mail daily.

There will be a deadline for items mailed, of ten days before the meeting. If you wish, (and you have a modem) you can call me and we will do a computer to computer download. My number is 299-2333.

Jeff Overton

From : DELBERT WRIGHT <026>

TO : ALL

Re : PRINTER CABLES

Date: 02/12/91 0 10:31:19

"SORRY ABOUT THAT!!"

ALL WHO HAVE PURCHASED PRINTER CABLES FROM ME:

I just found out that the cables you purchased from me have a logic chip in the cable to invert the "strobe", or the "timing pulse" for the data bits and therefore probably will NOT work with MOST printers. I think this cable originally sold for \$35 so they really are a bargin, but not worth a cent if it won't make your printer go! If you will contact me @ 895-1765, or bring your cables to the next meeting, I will exchange them for NORMAL cables.

Delbert

SOME NOTES ON VIDEO

By - Delbert Wright

These articles are being written using Sams a Howard W Sams & Co. book "COMPUTER CONNECTION MYSTERIES SOLVED" by Graham Wideman, as a reference. I HIGHLY recomend this book to all persons who have an interest in how to connect computer stuff & make it work properly. This includes installing & repairing as well as just wanting to know how it works.

The last article ended stating that a composite monochrome video signal had three parts on 1 wire. The signals were the HORIZONTAL sync (to move the beam across the screen), the VERTICAL sync (to move the beam down to the next line), and LUMINANCE (to vary the brightness of each phosphor struck by the electron beam).

In television this signal has to be mixed with the frequency of brodcasting station's carrier signal & transmitted to our TV. We select which of the many signals are in the air by using the channel selector of our TV. In many home computers we use a Radio Frequency Modulator or RF MODULATOR to "brodcast" to our TV. There is a switch to select channel 3 or channel 4 so we may choose the best choice at our location. One common misconception is if one of those channels is operating in your area, then it can't be used for our computers. The fact is that many times that channel gives better computer reception than the The signal from the RF unused one. Modulator will be much stronger & over ride the broadcasting TV station.

For COLOR video a picture tube with pixels of 3 colors (Red, Green, & Blue) must be used. These are arranged in VERY close proximity to each other, but a perferated metal mask and adjustments by a technician will allow each dot to be only hit by electrons from 1 of 3 "guns". There are 3 seperate "guns" in a color tube & each generates 1 of the R.G., or B beams in response to signals called CHROMA and SATURATION. Chroma

picks the combination of guns to be on, so any color can be made. Saturation determines how much color. The brightness signal varies the intensity of all guns at the same time. The Chroma and Saturation signals are added to the Composite Monochrome signal and now we have a COMPOSITE COLOR signal.

This system is ok for movies & pictures, but is pretty bad for viewing color characters and graphics from a computer. The technical reason is that the color signals are so slow that details tend to blur. This a fault of the METHOD used to transmit the COLOR information, not the CRT or picture tube itself.

If we replace the 9918A chip in our 99/4A computers with a 9928 chip, then with absolutely no, (none, 0, zero), other modifications we have a composite monochrome output (no color) that has startling resolution, even when using an RF modulator & a color TV. If you use your 99/4A for mostly text, then you maybe interested in this change. I'll tell you a secret in another installment on how with this chip, you can increase the COLOR output of your 99/4A too. Actually you will EITHER have better color, or better monochrome video. The monochrome change is "do it yourself, but the color change is more complicated and expensive. (but worth it!!)

I believe 9928 chips can still be purchased from:

L.L.Conner Enterprise 1521 Ferry Street Lafayette, IN 47904 317-742-8146

Resolution is what determines how much detail is displayed, but how is resolution measured? Resolution is sometimes stated in lines and some times in pixels. To some people, it means how close can 2 paralell lines be displayed to each other without appearing to touch each other. This is used in photography and not in computer displays, because to not touch we need a blank line between each displayed line, so our raster that cosists of 240 displayed lines is only 120 using this method.

(CONTINUED FROM PAGE 2)

THE measurement that IS used is the number of PIXELS or individual dots horizontally and vertically that COULD RE displayed. (Rember the entire surface is not used to display characters.) The vertical resolution of composite monitors is limited to 240 lines by standard circuitry, but the horizontal direction is limited by how fast the beam can be turned off and on.

Ok, if you are still here this part is both the most confusing and the part that will make sense of all that follows.

BANDWIDTH

Bandwidth is a term that can be used to indicate resolution. It is a measure of how fast the controller can turn the scanning electron beam ON and OFF and is expressed in millions of times per second, or Megahertz.

You can see that to display an 80 character line with each character being 8 pixels wide would require 8 times 80 pixels, or 640 pixels. If we only wanted to have every other dot on (as in some graphic characters), and the dots must be clearly on or off, then the maximum number of on/off cycles is 320 per line. It takes 64 microseconds for 1 line, but only about 45 microseconds is used to display information. So to find the speed needed to switch on/off 320 times in 45 microseconds, we divide 320 by about 7 Megahertz. This is the absolute MINIMIM for 80 column display!

The FCC and the National Television Standards Committee or NTSC has set the bandwidth of color TV at 3 Megahertz and 3.5 Megahertz for black and white TV. From the above calculations you can see that 40 columns of characters that are 8 pixels wide is the maximum that could be clearly displayed with these bandwidth restrictions. Actually with the 3 Megahertz bandwidth of a color TV, 32 is the maximum for a clear display of 8 pixel wide characters.

If the display is set at 240 lines, and we are using a character that was 10 pixels high, then we would have 24 rows of characters, but they would all touch,

so...if there were no dots used in the top or bottom row, we would have 24 rows of characters that were 8 pixels high and there would be 2 blank rows of pixels between each row of characters. This is how the TI came to have an 8x8 size character set as the standard.

In TI basic the display is 24 rows of 32 characters of 8x8 pixels. In other programs that have 40 collumn displays the CHARA1 file is a replacement character set that has been changed to squeeze the character into a smaller space & provide 8 more characters per line.

*****Next time will be about differences between TV & monitors, RGB & RGBI, RGB TTI. & RGB analog, CGA/EGA/VGA/Super VGA.

This is a reprint of an article that appeared in the FEB.91 newsletter for: SOUTHERN CALIFORNIA COMPUTER GROUP. "THE COMPUTER VOICE"

TI-WRITER AND PRINTER GRAPHICS. by Woody Wilson

Many articles have been writen in regard to using graphics with TI-WRITER, but here comes another one. This project on my part came about from conversations with two of our members. In one case the individual wished to use some transliterated Spanish characters in a letter and the other person desired to make a chart and use check marks to indicate where certain things were applicable.

Before we get too far into this, let me make one thing perfectly clear, this article is written for EPSON compatible 9-pin dot matrix printers. Prowriter printers were covered quite adequately in the Chicago User's Group TI-WRITER Supplement. (An excellent book to have in your library!)

You should also be aware that there are programs that will do most of the work that you will be doing here. This article is for those of you that do not have ready access to such programs as J.Peter Hoddie's FONT WRITER II, FRONTMAKER, ARTCONVERT by TRIO+SOFTWARE, and many other fine programs.

(CONTINUED FROM PAGE 3)

In order to print graphics via TI-WRITER, we must be able by means of software commands to put the printer in "bit image mode". In that mode we can control the firing of each pin of the print head. For the purposes of this description, we will consider only using the upper eight pins of the print head. (If you can figure this out you should be able to go on to nine pin printing!).

It is helpful to make a grid, 8 squares by 8 squares.

It is customary to assign certain powers of 2 to each square like this: 1 2 4 8 16 32 64 128

Notice that the lowest square has a value of 1, the next 2, on up to 128 for the top square. these values are the same for all squares that are in the same row. If we draw a figure in the 8 by 8 grid and then get the total of filled squares in each column, we will come up with eight numbers. Jot those numbers down reading from left to right. Put a comma between each set of numbers, but do not put one after the last number. It could look some thing like this: 0,4,2,1,2,4,8,16

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HUG OFFICERS

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V.President Bryant Pedigo 255-7381
Secretary Jeff Overton 299-2333
Treasurer Walter Farmer 539-2679
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PROGRAMS ON THE BBS

If you don't have a MODEM and ever wondered what you are missing, here is a list of all the programs that are available to you on our bulletin board at this time. New files are being added all the time.

I find the MODEM very easy to use and they are not as expensive as they once were. You might check prices with Larry Conner or one of our officers. [O] TEXT

DOWNLOADS AVAILABLE

Name Size Description

80COLDOC 037 80 COL ASSEBLY DOCS. 80TRACKTID 028 ti dsk cntrler 80 trk 96400RTI 009 assembly code to tell. 158 ASSEMBLY tutorial exa ASSEMELY BBS/FILES 146 Helpfull files number BOBARC 082 ASGARIO CONFERENCE BOXFIX 040 Switching power supply BUDCONE 056 BUID MILLS CONF - ARCED OHARSO-255 018 chars 0 to 255 051 asgard conference CRISCON DIGITIZER 039 Text file on Imagewise. DM-SOURCEA 142 HUG LIBRARY DISK DM-SOURCEB 086 HUG LIBRARY DISK FORSALE 146 HARDWARE SOFTWARE GARYBOWSER 056 CU FROM GENIE 057 DATA SETTINGS FOR HDS HD-DATA 090 MORE INFO ON HD'S ARC'D HD-STUFF 028 HELP file for this bbs. HELP HUMOR 054 TEXT FILE 047 MEP ANALOG SOURCE CODE JOYSTKMEP 138 BBS PHONE number list. LOCALBBS MIDIARCC! 056 conf on TI midi. OFFICERS 003 NEW GROUP OFFICERS FOR OPAXCONFER 091 OPA CONFERENCE FRM DELP OPACONARC 153 20PA CON DELPHI PALLCONF 048 paulc conference PERCOM 041 minutes of a hard sig 018 LONG DISTANCE phone #s. PHONE RS232 106 Assembly notes prog. RTELAPR8 032 R. TABLE, GENIE APR 8 SWITCHING 039 add a switching power s TI/W/HELP 131 HUG LIBRARY DISK TIPOOKS 059 TI BOOKS reference. TI WR/TUT 101 TI WRITER TUTORIAL VGA-CABLE 059 VGA to 9640, Digit, etc WINDOW-TXT 020 descript of 9640 GUI XETUTOR 208 XB TUTORIAL TI-FEST 006 TEXT CHICAGO TIB/TEXT 082 Updated TI bbs listing HEXBUSMANU 071 4a hex-bus interface us BERRYARC 058 berry miller conference E4000AFC 015 CODE4000 DOCS BUSINESS 022 REVIEW OF BUSINESS GRAP ESD-CONF 102 ESD conf - new HFDC 1/9 4A-NEWS 008 New publication for 4A

(CONTINUED ON PAGE 6)

Now that you have these values, what can we do with them? Well, to make this simple, we have limited our graphic (part of a font, really) to an 8 by 8 grid. Since the maxiaum width of our graphic is going to be 8 columns, the foraula we have to use to give the print er commands is very easy to use. Here is what we will need to provide:

- What character will we transliterate in TI-WRITER?
- 2. What density of print should we use?
- 3 How many columns of dots are to be printed?

Let us fill in a few answers:

- 1. We can use the tilde (FCNT W) which has an ASCII value of 126.
- 2. For this trial we will use Single Density Printing which on the Panasonic printer is "K" or ASCII 75.
- 3. WE have arbitrarily set the the maximum number of columns of dots to

We can write our transliteration as follows:

(NOTE: We have to place an exclamation mark (or something) shead of the .TL since we can NOT print (in the newsletter)s line beginning with a period. You should NOT do this in the actual program.)

1.TL 126:27,75,8,0,0,4,2,1,2,4,8,16

The 126 is the ASCII value for the tilde; the 27 is the escape code that is used to tell the printer that the following numbers are printer codes; the 8 tells the printer that there are 8 columns of bit image graphics; the 0says that there are less than 256 columns; and the following group of 8 ere the powers of 2 values of the pins the printer will operate.

OK, we have our little font(?) transliterated so let us use it in TI-WRITER. For test purposes write a few lines such as these:

1.TL 126:27,75,8,0,0,4,2,1,2,4,8,16

I find it necessary at this point to break into my article to insert a note of explanation in regard to some items Roland Anderson and I ran into tonoght. We found that a CR can be used at the end of a .TL line or nothing at all will also work. However, text lines with or without graphics included in them MUST have a LF at the end. Another thing to watch out for is the difference in size of

the transliterated character and the regilar printed Pica letter. If you try to put the check mark we developed in this program into a box made useing Function A (1), you will find that 12 boxs with check marks inside them will take up more space than 12 boxes with regular letters or number. Roland Anderson and I ran in to this problem tonight as we tried to put check marks into a grid he had made. Everything shifted to the right several spaces so we were forced to make a slight change in the design of the check mark. Here is what we came up with:

1.TL126:27,75,6,0,4,21,2,4,8

Notice that we changed the 8 column width to 6, and we also droped the first 0 and the last 16 from the formula we used above. The result was a smaller check mark that did not move the boxs to the right.

Now to get back to the rest of the article:....

You may use either of two methods that I used to place LF's sysbols after the end of lines where needed. 1) Use the special character mode as follows: Press Control U, Shift J, Control U with the cursor at the end of the line on which you need the LF. You can remain in the special mode and use the FCTN X key to go to the next lind and then press Shift J to place LF. 2) The second method id is a little longer but works very well for long letters or documents. Save your letter to disk in the ordinary way, then go to the formatter and print the file to Disk, not to your printer. Be sure you use a different filename, to save it or you could possibly write over your master file if it is on the disk to which you are writing. Saving this way puts LF's after every line. You then ahould load file back into the TI-WRITER Editor and use FCTN 3 to eliminate any extraneous lines. I HIGHLY recommend that you go into TI-WRITER IN Fixed mode(press Control 0 (zero) and note that the cursorchanges to a hollow shape.) before you do anything to yuor documentafter changing the CR's to LF's. The slightest error on yuor part can cause the document to reformat in to one big mess. You may want to save a back-up copy fbefore you experiment with your text/graphic file.

CONTUNED ON NEXT PAGE

Since each line in your document ends with a LF, you must print it through the formatter with your print command changed from PIO.LF to PIO.CR. Do the same thing if you use a serial printer; change the LF to CR.

(CONTINUED FROM PAGE 4)

C17 G4423

DOWNLOADS AVAILABLE

Name	Size	Description
*CATALOG	142	HUG LIBRARY DISK
5GAMES		5 GAMES
ALIENRAIN	025	TI GAME
ARGROIDS	017	TI SAME
AUSSIE1		BAMES FROM AUSTRALIA
BAGOFGAMES		
BASIC-1		HUG LIBRARY DICK
		HUG LIBRARY DISK
BASIC-11	232 (HUG LIBRARY DISK
BASIC-12	224 I	HUG LIBRARY DISK
BASIC-13	0621	HUG LIERARY DISK HUG LIERARY DISK HUG LIERARY DISK
BASIC-2	240 I	HUG LIBRARY DISK
BASIC-3	242 I	HUG LIBRARY DISK
BASIC-4	204 I	HUG LIBRARY DISK
BASIC-5	234	HUG LIBRARY DISK HUG LIBRARY DISK HUG LIBRARY DISK
BASIC-6	247 F	HUG LIBRARY DISK
		-UG LIBRARY DISK
BASIC-8	2 32	-LIG LIBRARY DISK
BASIC -7	211 H	LIBRARY DISK
HHYLT	120	LI FLIJGHI SIMULATOR
ereakout	02 0 (FREAT GAME, TRY IT!!
COREWAR-C	07B a	a c game ported by cp.
E/A-1		HUG LIBRARY DISK
E/A-3	180 H	HUG LIBRARY DISK
FREDIDY/ARC	125 F	RED – Keep On Climbin'
		LUG LIBRARY DISK
GAMES		FI GAMES
GOLFTI .		SOLF FOR THE TI
HOCKEY	145 H	HOCKEY GAME
HONEYHLINT		
L060-1	051 F	LUG LIBRARY DISK
MANCALC	029 4	A LOGIÇ GAME
MBF-1	OB6 F	IIG I TERARY DISK
MINIMEN-1	174 F	LUG LIBRARY DISK
MP4BU5/Q1	144 F	IUG LIBRARY DISK
MP4BUS/02	168 F	LIG LIBRARY DISK
FULL I IPLANI	225 H	UG LIBRARY DISK
		LUG LIBRARY DISK
MLMMY/E	041 E	ENG. VER OF A GERMAN

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FRISON .
          038 Use ADVENTURECartridge
          024 HJG LIBRARY DISK
PRK-1
CLEST
          215 TI QUEST
SPACE INVADERS GAVE
SPECHSYN-1 215 HUG LIBRARY DISK
TE'S-1
          164 HUG LIBRARY DISK
TE'S-2
          062 HUG LIBRARY DISK
TE'S-3
          119 HUG LIBRARY DISK
TE'S-4
          200 HUG LIBRARY DISK
TE'S-5
          194 HUG LIBRARY DISK
          069 tetris, one of the best
TETRIS
          102 HUG LIBRARY DISK
TEXAS-1
TEXAG 2
          211 HUG LIBRARY DISK
TEXAS-3
          106 HUG LIBRARY DISK
TEXAS-4
          108 HUG LIBRARY DISK
TEXAS-5
          078 HUG LIBRARY DISK
TEXAS-6
          260 HUG LIBRARY DISK
TEXAS-7 135 HUG LIBRARY DISK
TEXAS-8 138 HUG LIBRARY DISK
        081 HUG LIBRARY DISK
TEXAS-9
THE/MINE
          066 SWELL GAME! XB Loader
VALENTINE 131 VALENTINE CARD
          040 Good Word Game fry It!
WORDFLAY
          143 XB GAMES
XEGAMES
XTENDED-1 215 HUG LIBRARY DISK
XTENDED-10 229 HUG LIBRARY DISK
XTENDED-11 202 HUG LIBRARY DISK
XTENDED-12 113 HJG LIBRARY DISK
XTENDED-14 222 HUG LIBRARY DISK
XTENDED-2 212 HUG LIBRARY DISK
XTENDED-3 193 HUG LIBRARY DISK
XTENDED-4 212 HUG LIBRARY DISK
XTENDED-5 209 HUG LIBRARY DISK
XTENDED-6 214 HUG LIBRARY DISK
XTENDED-7 231 HUG LIBRARY DISK
XTENDED-6 218 HUB LIBRARY DISK
XTENDED-9 217 HUG LIBRARY DISK
LOTTO/PICK 006 PICK LOTTO NUMBERS ON "
BUZZAROBAI 024 TI GAME
BASEBALL
          047 BASEBALL GAME
OF/ABBEEY
          142 A GAME FROM ENGLAND
GUARDIAN
          037 TI GAME
HONEYBEES 096 COLLECT THE HONEY
NIBBLE
          029 LIKE PAC MAN
          105 SPACE STATION PHETA
PHETA
THALL
          073 GAME OF TRADE WARS
HRT-N-SOUL 006 2 PLAYERS BY M. MOORE
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בשנדונודו [2]

Name

DOWNLOADS AVAILABLE

	•
!TOOLKIT #SBUG	208 Assembly routines. 190 FREEWARE SUPERBUG II
1000WERDS	Q44 TI-WRITER UTILITY

Size Description

(CONTINUED FROM PAGE 6)

80COLED	141	80COL ADDINS FOR FWEB
ALIBN/ARC		Alignment of disk drive
AMORTIZATN		Three Amortization Proc
ARC303		LATEST VER 3.03 ARCHIVE
		
ARCHIVER		3.03g FDR 9640 HFDC
BANKINES		CHECKING PROGRAM
EAUD		Gives u/load d/l time
BOOT1289	090	BOOT v.12/13/89 - Great
EOTH-ARC	022	Print on both sides of
CARTDUMP	216	DUMP CARTS TO DISK
COPY-C		Track copier, TI,Corcom
CS1-DSK-FA	008	Transfer adventure game
DI 99V2	104	DISK CATALOG PRINT LABE
DM1000/4		DM1000 Version 4.0
FAST-TERM		FAST-TERM JPH archived.
FUNI		FWEB 4.21 PARTA
FUN2		FWEB 4.21 PARTB
FUNDOC		DOCS FOR FWEB 4.21
FWEB4*3-1	207	1 OF 4 FWEB 4.3 DISKS
FWEB4*3-2	173	2 OF 4 FWEB 4.3 D15K5
FWEB4*3-3	244	3 OF 4 FWEB 4.3 DISKS
FWEB4*3-4	248	4 OF 4 FWEB4.3 DISKS
FWEEFIX		FIXES FOR FWEB 4.21
GENP		E/A GENEOLOGY PROGRAM
GIFVIEW		gif viewer mdos only
HOTEUG		
		PROGRAM DEBUGGER
LAREL		LABEL PROGRAM
		GRAPHIC LABEL MAKER V3
		SGWi*1 does letterheads
MAC-CONVT		MacInt. text file conve
MASS 4/1	158	HUG LIBRARY DISK
MEP;C	017	C SOURCE CODE PROG.
MDH5129		HFDC VER 1.27
MENU7 03		NU for Horizon RD
MENU-V73		HORIZON MENU VER 7.3
MG		DM1000 Version 3.8
MH		
		Part II DM1000 Ver. 3.8
MFLANBLD		MULTIPLAN HOME BUDGET
MYARC-DM		MYARC-DMIII
NOLAN		HANDY UTILITIES ARC'D
PRINTER	019	Prowriter commands 8510
PR_BASE	145	FR BASE
RAGASMV7P1	182	macro asm v7 part1
RAGASMV7P2	112	macro asm v7 p2
		macro asm v7 p3
RAGLNKV2		rag linker ver 2.0
RAMTODISK	041	HUG LIERARY DISK
R05814		HRD ROS VER 8.14
SCAN*IT		SCAN YOUR ORLI ADDRESSES
	040	SLAN YOUR UND ADDRESSES
SECONE20	V25	7vz7uF50 dN+L!} <u>thH,F[+</u>
T-SHELL	ധം	adds DSK commands to XB
TIDIAG1		TI/DIAGNOSTIC PART 1
TIDIAG2		TI/DIAGNOSTICS PART 2
TIDIAG3		TI/DIAGNOSTICS PART 3
TRACK	08 0	French track copier.
TRACKER	011	Myart FDC track copier.
VIDEODISP	009	VIDED BULLITEN BOARD
VOTE-ARC		Ballot for elections.

MINDAXB 170 Name WINDYXE this is a FWEB4*3A-1 531 NEWEST FLINNELWEB DISKI FWEB4*3A-2 372 LATEST FUNNELWEB DISK2 4CHANGE 271 CHANGESFW4.30 TO 4.3A 019 ARCHIE - EA5 loader ARCHY MODEARC 009 SET VIDP MODES - 9938 MDMV_130 216 for HFDC, last version PARK_146 019 for HFDC - arc. XXB15 174 MORE XB COMMANDS 304 DEMO OF TI TIDEND CFS1 171 CREATIVE FILING SYS 1 CFS2 213 CREATIVE FILING SYS 2 CFS3 135 CREATIVE FILING SYS 3 GEN/DOC 137 GENEULOGY DOCS GENEOLOGY 069 GENEOLOGY PROGRAM CATCHAT 027 CATALOG AND ADD COMMENT

[3] MLBIC

Name

DOWNLOADS AVAILABLE

Size Description

BOJANGLES CHIPM ISIC CHRISTMAS	049	GDODBYE SAMMY Dueling Banjoes OK! HUG LIBRARY DISK
MUSIC-1 MUSIC-2	083	HUG LIBRARY DISK
POPMUS/ARC	077	a demo of music and gra
XEMLISIC S_MOORE_1		Sam Moore Jr. Music 1
5_MDORE_Z S_MDORE_3		Sam Moore Jr. Music 2 Sam Moore Jr. Music 3
S_MOORE_4 S_MOORE_5		Sam Moore Jr. Music 4 Sam Moore Jr. Music 5

[4] GRAPHICS

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Name 	Size	Description
ANIMATEM	207	ANIMATE TI-ARTIST PICS
ARTOON	208	Converts Printshop to P
ARTIST_1		HUG LIBRARY DISK
ARTIST_2	145	HUG LIBRARY DISK
ARTIST_3	165	HUG LIBRARY DISK
ARTIST_4	159	HUG LIBRARY DISK
EASEL,	121	DRAWING PROGRAM
ELFGIF	046	picture of she elf.
GIF99	071	AD BARRY BOONE GIF
MAX	025	RLE PICTURE UTILITY
M_LINK	131	MISSING LINK DEMO DISK
PP-HIRESOL	. 083	PagePro Printer Util.
SLIDE	292	SLIDE SHOW
TRS9HDW	033	DISPLAY TRS HR GRAPHICS

(CONTINUED FROM PAGE 7)

PP-FDNTS1 071 ARC new for PagePro

[5] 9640

DOWNLOADS AVAILABLE

Name	Size	Description
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9640HELP 039 from MIAMI USERS GROUP
BDEND 009 3 MYRasic demo programs
CONFERENCE 025 DELPHI CON. 13TH JINF
FREEWARES5 143 HUG LIBRARY DISK
DM ARK 065 9640 DIRECTORY MER
EXEC 028 MDOS E/A 5 loader v1.3
FRACTALS 030 fortran fractal generat
GRADEREPOR 041 grade report generator
HDOS 481 SEE 9640 MESSA. RASE!!!
MOTH-PAD 047 MGS calculator prog by
MDOS_114 358 rename as SYSTEM/SYS
MDOS_114F 358 latest SYSTEM/SYS
MDOS_17H 358 latest SYSTEM/SYS
MDOS_17H 358 latest SYSTEM/SYS
MDOS_18H 107 MGS 118F ARY DISK
MRASIC 182 MYRASIC 2.99A Archived
PATCH_97V2 002 MDOS .97 patch, ver. 2
PALLCARC 049 CONFERENCE WITH PALL C.
GDE21/ARC 032 GUICK DIRTY EDITOR
MDCS_97M 388 FULL floppy support!
MDOS_115 291 PALL CHARLTON LATEST

FREWARE-12 167 HUG LIBRARY DISK
FREWARE-16 136 HUG LIBRARY DISK
FREWARE-17 187 HUG LIBRARY DISK
FREWARE-18 134 HUG LIBRARY DISK
FREWARE-19 145 HUG LIBRARY DISK
FREWARE-19 154 HUG LIBRARY DISK
FREWARE-11 145 HUG LIBRARY DISK
FREWARE-11 145 HUG LIBRARY DISK
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[8] MAC GIF PICS

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EAGLE 030 GIF picture of an EAGLE F-15 030 GIF PICTURE OF F-15

FROM COMPUTER BRIDGE (VOLUME 7, NUMBER 2, FESSUARY 1983)

THE NEW CURSOR +++++++++++++ By Rich Renth

In this short little routine that follows, you can change your cursor to whatever character you please. routine is an old but useful To change the character simply change the 8 numbers after the 12288 in line 110. These numbers must be in decimal form not hex. To convert your 16 character pattern indentifier (used in CALL Char) to decimal, split it up into 8 pairs for the 8 rows. The first number of the pair should be multiplied by 16 and added to the second. The letters in hex to decimal A=10 B+11 C=12 D=13 E=14 are F=15. Here is a small example -E7 = 14 X 16 + 7 a pair 231. just When this program is run. Your new Cursor will stay this way until you exit extended basic. Cursor below is underline. HAVE FUN !!!!!

100 CALL INIT :: CALL LOAD(8
196,63,248):: CALL LOAD(1637
6,67,72,65,78,71,69,48,8
)
110 CALL LOAD(12288,0,0,0,0,0,0,0,0,0,124)
120 CALL LOAD(12296,2,0,3,24
0,2,1,48,0,2,2,0,8,4,32,32,3
6,4,91):: CALL LINK("CHA
NGE")

DISCLAIMER

This newsletter is brought to you through the efforts of the officers and members of the HOOSIER USERS GROUP. Every member is encouraged to submit articles.

If you have an article you would like to share with the other members mail it to:

Bryant Pedigo 6461 N. Sherman Brive Indianapolis, IN 46220

Opinions expressed are those of the author and not necessarily those of the HOOSIER USERS GROUP.



"I'm his mother. I've been helping Jimmy with his math since the third grade."

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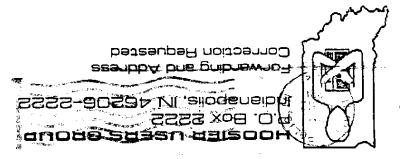
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