

GROUP HOOSIER USERS HOOSIER USERS GROUP USERS GROUP HOOSIER SROUP HOOSTER USERS

Hoosier users group users group hoosier users group hoosier users group hoosier users group hoosier users group hoosier

THE HUGgers HOOSIER USERS GROUP People Helping People

users group hoosier GROUP HOOSTER USERS

HOOSIER USERS GROUP USERS GROWP HOOSIER

GROUP HOOSTER USERS HOOSTER USERS GROUP

users group hoosier users group hoosier users group hoosier users group hoosier group hoosier users group hoosier users group hoosier users group hoosier users

JANUARY, 1986

THE HUGGers NEWSLETTER

VOLUME 3. NUMBER 10

THE OFFICER'S CORNER_

Another year has come and gone and the future of the computer that refuses to die looks brighter than ever. the expected arrival of a new computer by Myarc and new products recently released such as Millers Graphics Gram Kracker and Orphan Chronicles: Myarc's Ram Disk and Extended Basic II; and New Horizons Ram Disk brings new life to our old friend.

The winner of the Myarc Ram Disk raffle is John Powell. I'd like to thank all members who participated in our first raffle; and thank Larry Conner, who furnished the Ram Disk and donated half its cost to the users oroup.

This month's workshops are the Programmers' Corner and the Gram G Greg Larson has more information on the Programmers' Corner on page 3 of this New sletter. I'll be giving a demo on the Gram Kracker. will be a learning experience for me since I haven't used the Gram Kracker to its full potential. One of the workshops will be delayed so everyone will be able to sit in on both.

See you January 12, at 2:00 pm. J.Steven Sims

SOUTH REGIONAL MEETING

Because σf several scheduled activities. I will not be able to have a southside meeting during the month of January. I will speak with some of the who usually attend southside meetings to arrange for a February date. The February date will be printed in the Feb. newsletter.

THE NEXT MONTHLY MEETING WILL BE JANUARY 12, 1986 STARTING AT 2:00 PM AT CREATIVE LOGIC. SEE YOU THERE!

WORKSHOPS: GRAM KRACKER PROGRAMMERS' CORNER

TWAS THE NIGHT BEFORE CHRISTMAS

(A true story) by Pam Sims

Twas the night before Christmas and all through the house. not a creature was stirring, not even our mouse. My stocking was hung by my computer with care. in hopes that St. UPS soon would be there. With visions of Bonz and mice dancing in their heads... Snoopy and Bootz, our dog and our cat, had just settled in for their long winter's maps. When from outside a rumbling we heard, Snoopy and I sprang from the sofa to see what had occured. A skinny young fella. so tired and sick had just pulled up in a brown delivery truck mighty quick. He searched through his parcels till he found just the right one, I was so anxious to get my Gram Kracker, but I knew I'd have to wait till he was done. Snoopy was a growling, and I was a shaking, both knowing that the skinny young fella soon would be waiting. "Sian line three for your Gram Kracker please" the skinny young fella said with glee. I said "Thank you" on this Christmas Eve. As he turned and walked away I could hear him say ["Merry Christmas to all. and, to all, have a good day."

WELCOME!

The Hoosier Users Group would like to welcome David Loertscher. Bob Mikels. Gary McQuade, and Galen Minton, who joined in the past month.

WELCOME BACK!

We'd also like to welcome back'these renewing HUGgers: Bill Lucid, Gordon Edwards, George T. Forest, Jr., Pat McGraw, George Kruggel, Dan Eicher, Bill Cagle and Steve and Pam Sims!

HAPPY BIRTHDAY!

A Happy HUGger Birthday to these members who joined or renewed in January. 1985! Carl Walters, Jim Felton, Bill Jones of C'ville, John Cornwell, Brian Beasley, Robert Sobek, Michael Lyons, Sam Hatcher, Lew Bartley, Michael Brown and Gary Rhodes. Its time to renew!

From last month's issue in the Officer's Corner, Matt McCormick should be Mack McCormick.

EDITOR'S NOTES

by Pam Sims

I don't write an editorial column on a monthly basis because I feel the space can be better utilized in printing articles, programs, tips, etc. In fact, without looking at all the back issues, I cannot remember the last time I wrote an "Editor's Column" as such. This month is an execption, however, I feel that have something important to the group, (and myself), to say.....

For the past 43 months, I have published this Newsletter for our group (sometimes at the sacrifice of my family and friends). I have not complained too much except when I'm left with no articles or workshops scheduled. Nobody knows the hours I spend each month updating our mailing lists of members and Users Groups: updating HUGbbs files and reading every Newsletter we receive in the mailbox from other Users Groups all across the country. I am indebted to Dennis Sherfy, Vic Kelson, Andy Armstrong, Bill Cagle and others who have churned out articles within an hour after my cry for help. And yes, I find all the typo's I missed after the Newsletter is printed, and last month certainly was no exception. (Murphy strikes again!)

I would like to get someone to take over the responsibility of publishing the April, 1986 Newsletter because I will not have time to do it myself. Two days after the September meeting my grandfather died. He had been ill for more than six years, his last five years were miserably spent as an invalid in a nursing home. In the first week of April, 1986, his estate auction will be held. Due to him dying without a will, the auction will be monstrous task. I would like to be available when I'm called upon to help. This is what prompted my decision to ask for a month off.

We all know, more or less, what is needed to get the Newsletter to print and to the Post Office so I won't go into it here. For those who would like to help please see me at the January and/or February Meetings.

MENGEN, A REVIEW

by Andy Armstrong

MENGEN is a utility program that will generate a machine language object file that will display all characters that you put on the screen, almost instantaneously. Its like having a compiler for menu screens!

To use the utility load the program that you wish to convert the screens of. Then find the last statement associated with the screen that you want to convert. After this line insert the statement "RUN DSK1.MENGEN". Now run the program to be converted. When the program reaches the "RUN DSK1.MENGEN" statement, the MENGEN program should load and run. While the program is running, solid blocks should appear on the screen. These solid blocks indicate where individual characters were found. After the program has "read" all the characters from the screen it will ask you for a filename (the disk to be written to must be in drive 1, just enter the filename, not DSK1.) After the you specify a filename the program will ask you for an entry point such as "MENU-1". You then have to insert in your program "CALL LOADS" and "CALL LINKS" for each screen that you converted. Once you load your converted program, access to the converted screens will be almost immediate.

THE PROGRAMMERS' CORNER

by Greg Larson

I'm announcing this month an idea for a new interest group in HUG. I'm calling it the Programmers' Corner!

This will be a group for all members who program or want to program whatever their level. At each meetingthere would be a presentation on some aspect of programming. The topic for the month will be anounced in the newsletter. A key feature will be a period for questions and answers using the resources of the group to help All 7 **6**142 7 4 members' auestions. questions will be written down so that we can double check the answers or find answers to those we don't know. results will be reported at the next meetino.

I've felt for some time that what we needed is a group covering programming in general, because I believe that programming problems are general in nature and not unique to any language. I was thinking that if we developed methods to support an engineering, or technology to applied approach programming, it would help generate the needed for some to try confidence programming and for others do something ambitious.

For those just getting started in programming or learning a different language, I would like to try a "big brother" approach where more knowledgeable members would coach less experienced ones.

Possibly the most controversial idea I have is to develop programming standards for projects done in the group. People can have strong opinions about these, but whatever methods are used, they are manditory, both for others to understand your code, and for you to understand your own code next month.

The first item on the agenda is to find out the resources of the group (that's us). January is Gram-Kracker month and everyone will want to see it (me too), so I'll arrange things so that we can get in on both. I hope to make this a feature of the Programmers' Corner.

LIBRARY BITS

by Dennis Sherfy

Last month I wrote about PROW-CHART on BASIC-11. This month, I will show you how you can use the table printed by this program with the TRANSLITERATION feature of TI-WRITER.

The first thing you need to know is, why do You need TRANSLITERATION?. The Quick Reference Card which came with your TI-WRITER package list ASCII codes 32 to 127. But what about 1 to 31? And how do you get to these special characters above 127? This is where TRANSLITERATION comes in.

TRANSLITERATION is merely a long word meaning to change one Key to another. If, while using TI-WRITIER, I type, .TL 65:66, this will cause my printer to print a capital B (ASCII 66) each time capital A (ASCII 65) is pressed. I have simply changed A into B. Obviously, no one would want to do this. But what if I want to enter the ELONGATED character mode on the PROWRITER? Transliteration allows me to do this. To select Elongated type, my printer requires CHR\$(14), or ASCII 14. Lets go back to my original example. If I enter .TL 65:14, I will be telling my printer to convert to Blongated type each time capital A is typed. In order to get out of elongate type, my printer requires CHR\$(15), or ASCII 15. I could enter .TL 66:15. This would tell my printer to convert to Elongated type when it sees an "A", then revert back to the normal type style when it encounters a "B". Now, let's get realistic. I need to use "A" and "B" frequently, so I should select two other keys that are not used so often. In my case, I do not use {-(123), }-(125), :-(124), \-(92), or \-(96) often. I could Transliterate (change) them to another character. If I enter .TL 123:14 and .TL 125:15, I will designate (and) to start and stop Elongated type, By typing Hoosier (User's) Group, the word "User's" would be in Elongated type. Transliteration is more powerful than this example. You can change a single Key to represent several Keys. .TL 124:27,84,51,50 will cause your Prowriter to shift to 1-1/2 line spacing when "i" is pressed. In this case "i" equals ASCII 27 (Escape), ASCII 04 (select custom line spacing), ASCII 51 (3), and ASCII 50 (2). This tells your Prowriter to change to line spacing of 32/144 inch.

To use the Greek characters or the graphic characters you must use transliteration to enter the special character mode, such as .TL 124:27,35. Then use transliteration to print each character you want.

There are two additional things you need to know to use transliteration. First, it only works with the FORMATTER. Second, you must put only one TL command on a line, followed by a carriage return.

The PRO-CHART will show you each of the available characters, and tell you which ASCII number to use with your transliterastion commands.

Experiment.....and enjoy your printer and computer.

MICRO'S IN ACTION

"Getting Spritely With The 99/4A"

by Bill Cagle

I was thinking about an application for a software driven process controller. The current state of the art, has six mechanical timers, in a box that pass the timing control of the processes from one timer to the next and, at best, the timers are easy to damage. I believe this is a crude way to do business. So armed with an idea and the Extended BASIC manual I sat down and commenced to write some code. The first thing I did was to code some "bit" strings to make box es. I needed four corners, two sides, a top and a bottom line. This gave me the characters to make a series of boxes to put the "big" sequence numbers in. The boxes were created with a loop that looks like this:

100 FOR I=8 TO 24 STEP 6 110 R=1 :: H=3 :: C=I+H :: W=H :: GOSUB 600 120 R=6 :: H=3 :: C=I+H :: W=H :: GOSUB 600

130 NEXT I

These variables are for (R)ow, (C)olumn, (W)ide, (H)igh. The sub at 600 looks like this:

600 CALL HCHAR(R.C.120,1) (This code prints an upper left hand corner. 610 CALL HCHAR(R.C+1,121,W) (This makes the top line)

The code continues till the box is printed on the screen and then it "RETURN"s to the loop to get the next set of R. C. W. and H to make the next box till all six are on the screen.

To create the "big" numbers I used code like this:

FOR I=1 TO 8 :: CALL CHARPAT(ASC(STR\$(I)),N\$(I)) :: NEXT I

This gets the bit pattern stored in the basic ROM and puts that pattern into the string array called "N". Next you have to assign character numbers to the sprites with this:

FOR I=1 TO 6 :: CALL CHAR(I+125,N\$(I)):: NEXT I

this assigns the character number of 126 to 132 to the "big" number sprites.

To get the big numbers on the screen, I used:

CALL SPRITE(#N,CHAR#,COLOR,DOT ROW, COLUMN)

and to get each sprite in the proper box, I used the "ON Y 60TO" statement. This was incorporated in a sub-routine like this:

420 GOSUB 8000

8000 ON Y GOTO 8010,8020,8030, etc. 8010 CALL SPRITE(#1,126,2,12,92) :: RETURN 8020 CALL SPRITE(#2,127,2,12,141) :: RETURN

this was continued until all six sprites (big numbers were defined and Y is the sequence currently being timed.

Next I had to produce a time keeping function. I used the ability of the VDP to keep a sprite in motion, once it is set in motion. This was accomplished by defining still another sprite and setting it in motion down the left side of the screen. The sprite was chosen to look like a sideways U and it slid down row of numbers. The speed was chosen by trial and error to give a speed of two lines per second. this would make the sprite pass a number every second and using the CALL POSITION(X,Y), X will have a down row value that will correspond to the number. This will let you compute the time from the value of X. I then wrote a routine that would continually check the value of X and when it was greater than the preset time for that segment, it would increment the sequence and start the next time interval. This would continue until all of the sequences are set up.

That made it very easy to put sprites and text on the screen at the same time. Maybe this will help some of you to start to play around with the extensive graphic command set which is built in Extended BASIC and 99/4A. If you try, you can do some tricky things with the screen and the sprites. I hope this will make you feel spritely!

FORTH CORRECTIONS AND UPDATES

by Tom Freeman

This is the last of the series of FORTH corrections and updates as appeared in the August, 1985 issue of MICROpendium. Next month, Editor/Assembler changes.

JINARY SAVE OF YOUR SYSTEM DISK Various people have given suggestions for this, starting with Craig Miller. The following may make it easier.

Note that I indicate how to FORGET each section. Also, anything beyond the 40th character on a line will be printed on a new line on your screen, so arrange

Now all you need to do is edit screen 3 to BLOAD what you have. Here is mine:

this screen carefully.

0 0 GOTOXY ." Loading...TI FORTH" 10 83C2 CI DECIMAL 21 BLOAD

FORGET TOMIO (climinate BSAVE)

(WELCOME SCREEN) BASE->R HEX FO 7 8 SYSTEM 10 SYSTEM

First, of course, decide which editor you want to use, then use it to make the changes above. Then change the definition of MENU on screen 20 to read 272 256 DO etc. This will give you garbage at the top of the screen when you first load everything, but will be useful later, as all of screen 20 can be used as the menu.

Next set up a blank screen that will load all your options in the order you wish.

Here is mine:

ORDER OF LOADING FOR BSAVE) BASE->R DECIMAL FORGET SYNONYMS

:-ASSEMBLER 34 LOAD;:-TRACE 50 LOAD;:-CRU 42 LOAD; :-FORTHTRAN 46 LOAD;:-TESTHEAD 44 LOAD;:-BSAVE 43 LOAD;

: -DOUBLECOPY 48 LOAD ; : -DECOMPILE 51 LOAD ;

: SEARCH 55 LOAD; : - 2FORTHCOPY 33 LOAD;

Now FLUSH again and you are seady. If you type COLD, you should get the

whole thing back, with a nice neat menu on the whole screen.

PAGE MENU : TOMIO; (BORDER PRESERVING OPTIONS)

I VDPMDE! ODISK LO! 180 DISK SIZE! 540 DISK HI!

TOMI ; SI LOAD 6 LOAD (-SYNONYMS -TEXT -NEWORDS)

TOM2; 57 LOAD 52 LOAD (-GRAPH GRAPHI)

TONI2; 57 LUAD 52 LOAD (-GRAP TONI3; 54 LOAD (-GRAPH2)

TON4; 55 LOAD (-SPLIT)

: TOMS; 45 LOAD (-FLOAT) : TOM6; 53 LOAD (-MULTI)

TOM7; 42 LOAD 39 LOAD 72 LOAD 89 LOAD

(-DUMP -COPY -PRINT -PWORDS) : TOM8 ; 22 LOAD (-64SUPPORT EDITOR)

TOM9; (BORDER FOR PROGRAMS WITHOUT OPTIONS)

TOMIO; 83 LOAD (-BSAVE)

R-> HASE

Notice how often my name appears (I like it). These are dummy defining words that provide borders so that I can FORGET just as much as I want. Notice that I also FORGET SYNONYMS at the top so that words won't be duplicated. This also necessitated using xx LOAD directly, rather than the defined words. Now, once you have FLUSH'd everything, type COLD and when it is done, x LOAD, where x is the screen you used for the above, then insert a copy of the disk and type, in DECIMAL, 'TASK 21 BSAVE. (Include the last period.) This will print out the next available screen, and leave much of the disk for other things. Note that your original disk retains the order of loading, so that if anything happens to the BSAVE'd disk, it is easy to reconstruct. You can now edit screen 2010 take full advantage of your new MENL. My version is below, and includes other options that I placed after the BSAVE portion.

ALREADY LOADED: [FORGET BACK TO (XXX)] [TOM!) -SYNONYMS -TEXT -NEWORDS

(TOM2) -GRAPH -GRAPHI (TOM3) -GRAPH2

(TOM4) -SPLIT (TOM5) FLOAT (TOM6) -MULTI (TOM1)-DUMP -COPY -PRINT

(TOM8) -64SUPPORT - (TOM9) options

(TOMI0) free, re-enter if forgotten New words: forget with TOMI

NEW WOLDS: TOIRET WITH TOM !
BASEINDEC EB PAGE SIZE NEW BYE-flushes 2FORMAT-DISK

Printer words: loaded with -PRINT P" PCR PI IST PVI IST PDI IMP PINDE

P" PCR PLIST PVLIST PDUMF PINDEX

Available options:

-ASSEMBLER - CRU - BSAVE - TRACE - TESTHEAD - FORTHTRAN - DOUBLECOPY (clears all memory first) - DECOMPILE - SFORTHCOPY

multiple screen transfers at once. When it is loaded the first time brief instructions are written on the screen. Note that in order to use quotes on screen I had to Hert is the shortest FORTHTRAN I know (mainly because all comments are climinated). Applogies to Mike Amandsen for this one, but it is modified to allow make a new word, appropriately called ". since this can't be put inside of ." FOR OR SCR-OSK"; HEX : INS2 " TYPE ING1 TO REPEAT OR FORKET " : 34 BMIT ; : INSI CLS B 9 GITOXY .. BATER THEST SCREEN 4, NUMBER OF SCREEMS TO NOVE, THEN!" CR CR ." DSK * ; 0 UMRINALE FILBUF 50 ALLUT PARS 2 A + FILBUF 1980 FILE FILT DROP LOGP CLSE BEEP ." DISK FILE COMPLETED. " CR CR INSZ BUIT | CR CR . FILE TRANSFER IN PROGRESS. î CR CR 16) DO DUP FILBUF 64 DYGNE I REC+NO 64 LAT 64 + LOUP CR CR CR CR CR SETFILE BEEP INS " ." BETFILE" ' CR DUIT ; IN : SETFILE FILTRAN SET-PAB SONTL DSPLY URBL SK REC-LEN ; • DUTIFIT FILTRAN ON OVER + SUAP DO 1 CR CR CR CR CR SETFILE BEEF INS " ," PUTFILE" " CR I DSK-SCR CLS 9 3 6070XY . * DISK TO SCREEN TRANSFER* : GETFILE INFT FILTING OPH OVER + SLAP DO 1 DUP ALOCK CLS 9 3 BOTOXY . * SCREEN TO DISK TRANSFER* INS . BYTER FILE DESCRIPTOR MORD-USE THE FORM" CR COSP DROP BLOCK DROF UPDATE LOOP CLSE FLUSH BEEP . F-0" . DSKx.XXX " CR Cf . THEN TYPE "; SHORT FORTHTRAN REC-NO RD DROP DUP FILBUF SUMP 64 CHOVE 64 + (SHORT FORTITION IDECRA TSF) BASE-)R DELIMAL * SCREBN COMPLETED* CR CR INS2 BUIT ; CR CR . FILE TRANSFER IN PRIGRESS ... (SHORT FORTHTRAN, P.2) BASE-IR CR CR 16 1 DO FILBUF 64 BLANKS : PUTFILE **B**LOCK X24-035 **ECITAL** S

Download characters to your Gemini

The following program was written by Jim Peterson of Columbus, Ohio. Many TI users know Peterson as the author of the Tips from Tigercub column that appears regularly in many user group newsletters.

The program, called DOWNCHAR, permits on-screen design of downloadable characters for Gemini printers. It is also compatible with Epson printers. The program features a direct dump to the printer for viewing the newly designed character and optional saving to disk. Peterson released

the program to the public domain.

100 CALL CLEAR :: CALL SCREE N(4):: CALL CHAR(128, "FF8181 81818181FF", 129, RPT* ("F", 16)):: CALL COLOR(13,2,16) 110 FOR R=9 TO 15 :: CALL HC HAR(R, 11, 128, 9) :: NEXT R 120 X=1 :: FOR R=9 TO 15 :: DISPLAY AT(R.7)SIZE(2):STR#(X):: X=X*2 :: NEXT R :: FOR C=9 TO 17 :: DISPLAY AT(8,C) SIZE(1):STR#(C-8):: NEXT C 130 DISPLAY AT(2,9):"TIGERCU B'S" :: DISPLAY AT(4,1):"GEM INI CHARACTER DOWNLOADER" !p rogrammed by Jim Peterson fo r the Public Domain 140 DISPLAY AT(17,1):" Move

cursor with W,E,R,S,D,":"Z,X and C keys. Toggle on":"and off with Q key. Press":"Ent er when finished.": ::"Press any key"

150 CALL KEY(0,K,ST):: IF ST =0 THEN 150 :: CALL HCHAR(17,1,32,224)

160 R=9 :: C=11 :: CH=128 170 CALL HCHAR(R,C,32):: CAL L HCHAR(R,C,CH):: FOR D=1 TO 10 :: NEXT D :: CALL KEY(3, K,ST):: IF ST=0 THEN 170 180 ON POS("GWERDCXZS"&CHR*(13),CHR*(K),1)+1 GOTO 170,31 0,230,220,210,200,190,260,25 0,240,330

190 R=R+1

200 C≖C+1 :: 60TO 270

210 C=C+1

220 R=R-1 :: GOTO 270

230 R=R-1

240 C=C-1 :: 60TO 270

250 C=C-1

260 R=R+1

270 R=R-(R<9)+(R>15):: C=C-(C<11)+(C>19):: IF CH=128 THE N 300 :: CALL GCHAR(R.C-1,GX):: CALL GCHAR(R,C+1,GZ):: IF (GX<>129)*(GZ<>129)*THEN 30 O

280 DISPLAY AT(22,1):"You can't have two in a row":"hori zontally!" :: FOR D=1 TO 50 :: NEXT D :: DISPLAY AT(22,1):" ":" "

290 CH=CH-1

300 CALL HCHAR(R,C,CH):: GOT 0 170

310 CH=CH+1+(CH=129)*2 :: IF CH=128 THEN 320 :: CALL GCH AR(R,C-1,GX):: CALL GCHAR(R,C+1,GZ):: IF (GX<>129)*(GZ<>129)*THEN 320 ELSE 280 320 CALL HCHAR(R,C,C,CH):: SDT

320 CALL HCHAR(R,C,CH):: GOT Q 170

330 FOR C=11 TO 19 :: X=1 :: FOR R=9 TO 15 :: CALL GCHAR (R,C,G)

340 IF G=129 THEN A=A+X 350 X=X*2 :: NEXT R

360 FOR J=1 TO LEN(STR*(A)): : CALL VCHAR(15+J,C,ASC(SEG* (STR*(A),J,1))):: NEXT J :: M*=M*&CHR*(A):: A=0 :: NEXT

C :: A=0

370 DISPLAY AT(20,1): "Print? Y/N Y" :: ACCEPT AT(20,12)V ALIDATE("YN")SIZE(-1): Q\$:: IF Q\$="N" THEN 470

380 IF F=1 THEN 390 :: F=1 : DISPLAY AT(20,1): "Printer name?" :: ACCEPT AT(20,15):P \$:: OPEN #1:P\$

390 DISPLAY AT(20,1): "ASCII to redefine?" :: ACCEPT AT(2 0,20) VALIDATE(DISIT) SIZE(3):

CH 400 DISPLAY AT(20,1):"Descender (0 or 1)? 0" :: ACCEPT A T(20,21)VALIDATE("01")SIZE(-

1):D\$:: D=VAL(D\$) 410 M\$=CHR\$(27)&CHR\$(42)&CHR \$(1)&CHR\$(CH)&CHR\$(D)&M\$

420 PRINT #1:M\$:: PRINT #1:

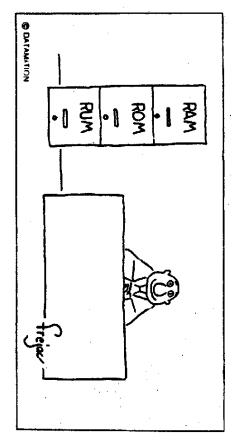
CHR\$(27);CHR\$(36);CHR\$(1); 430 PRINT #1:RPT\$(CHR\$(CH),7 2):: PRINT #1:CHR\$(14);RPT\$(CHR\$(CH),36)

440 DISPLAY AT(20,1): "Savm (
Y/N)? Y" :: ACCEPT AT(20,13)
VALIDATE("YN")SIZE(-1):Q8 ::
IF Q8="N" THEN 470

450 IF F3=1 THEN 460 :: F3=1 :: DISPLAY AT(20,1):"Filena me? DSK" :: ACCEPT AT(20,14) :F\$:: OPEN #2:"DSK"&F\$

460 PRINT #2:M\$
470 M\$="" :: DISPLAY AT(20,1
):"Another (Y/N)? Y" :: ACCE
PT AT(20,16) VALIDATE("YN") SI
ZE(-1):Q\$:: IF Q\$="Y" THEN
100

480 CLOSE #1 :: CLOSE #2 :: END



TIPS FROM THE TIGERCUB

827

Copyright 1985

TIBERCUB SOFTWARE 156 Collingwood Ave. Columbus. OH 43213

Distributes by Tigercub Software to TI-99/4A Users Groups for promotional purposes and in exchange for their newsletters. May be reprinted by non-profit users groups, with credit to Tigercub Software.

The entire contents of Tips from the Tigercub Nos. 1 through 14, with more added, are available as a full disk of 50 programs, routines and files for just \$15.80 postpaid.

>>>>>MOW AVAILABLE<

Tips from the Tigercub VOLUME 2 The entire contents of Tips Nos. 15 through 24, with 64 routines and files, also \$15.88 postpaid.

Or both for \$2 postpaid.

>>>>ALSO NON AVAILABLE((((((
New Catalog #6, for #1
Which is deductable from
your first order. Describes
140 original programs for
only #3 each (plus \$1.50 per

order for casette or disk, package and postage).

If you have my previous catalog, the following are now available in Extended Basic versions - Fast Addition Practice, Submarine Hunt, Rithmatik, Wawaland (also now available in Basic with Speech), Long Division Cryptograss, Miss Spell, Scrambulation, Bargraffer, Squinch, Bry Gulch, Name That Tune, Scrue, Midnight Trail, Mimbo, Kindertimes. Optical Illusion, Bazog, Synonymy, Speeder Reader. Changeroo, Glunk, Fraction Math, Three Buckets Puzzie. Roman Numbers, Match A

Patch, Kinderminus, I & E Spelling, Casting Gut Nines, Haunted Graveyard, Spalling Teecher, Homonymy, Antonymy, Old -Timer Puzzle, Ten Thousand Sights, Hechanical Aptitude Test, Junior Speeder Reader, and Bars and Balls.

Due to reduced prices for disks and mailers, the PPM charge is now \$1.50 for either disk or casette — DUT PLEASE BE SURE TO SPECIFY MATCH!

And my best seller -NUTS & BOLTS, a full disk of 186 (yes, I said 188) utility subprograms in MERGE format, ready for you to into aerge YOUP OMO programs. 13 type fonts, 14 text display routines, 9 A Dauses. programming aids, 9 data saving and reading routines, 5 graphics routines, 4 time and date, 6 music, 12 sorts and shuffles, 2 printer aids, 4 key and joystick, 4 math. 2 protection and 7 aiscellaneous, olus tutorial on subprograms. With documentation, example of using each subprogram. All for an i v \$17.75 postpaid.

I have been receiving several requests oublicize freeware which is sometimes good but sometimes of doubtful usefulness. quality, originality or even legality! And "Freeware! Send \$10 and initialized disk" is not freeware, it's somebody trying to get a free ad! So - no more freeware mentions! I am also not going te mention commercial products - after all, I'm publishing this at my own expense to promote my own software! However, I do owe a mention to Larry Hughes of Quality Software, because in Tips \$22 I recommended that disks with fractured files should

not be copied with a quick copier. Larry inforced that his trademarked QUICK-COPYer is the only program of its kind on the market that does un-fracture files. He sent along a copy to prove it, and it does just that. A very useful feature!

Now, here is the new, and final, version of the Tigercub Henu Loader.

100 by A. Kludge/H. Sordon/

T. Boissman/J. Peterson/etc. Version #5, 9/85 118 CALL PEEK (8198.A):: IF A ()170 THEN CALL INIT 120 OPTION BASE 1 :: DIM PG\$ (127), V(127,3):: CALL LOAD(-31806,16):: ON ERROR 130 :: 60TO 169 138 DISPLAY AT(12.9) ERASE AL L: "I/O ERROR" :: RUN 198 140 e, ee, A, A+, B, C, B+, FLAG, I, J,K,KD,KK,N,N\$,N\$,NN,P,P\$,P6 \${},PP,PP\$,Q\$,S,ST,T\$(},TT,V T, V(,), N\$, X, X\$, Y, K2, S2 150 CALL LINK :: CALL PEEK : : CALL KEY :: CALL SCREEN :: CALL COLOR :: CALL CLEAR :: CALL VCHAR :: CALL SOUND :: 160 CALL CLEAR :: CALL LOAD(8196,63,248):: CALL LOAD(163 76,67,85,82,83,79,82,48,8) 170 CALL LOAD(12288.129.195. 126,165,129,153,182,68) 186 CALL LDAD(12296,2,8,3,24 £.2.1.48.2.2.2.2.8.4.32.32.3 6,4,91):: CALL LINK("CURSOR" 190 CALL CLEAR :: FOR S=1 TO 14 :: CALL COLOR(S.7.16):: NEXT S :: CALL COLOR(\$.2.16) 200 T\$(1)="d/f" :: T\$(2)="d/ v" :: T\$(3)="i/f" :: T\$(4)=" i/v" :: T\$(5)+"pro" :: ON MA RNING NEXT 210 IMAGE ### 226 IMAGE ### Quit 238 INASE ### Delete 248 IMAGE ### Print 258 INAGE ### Rescan 260 CALL SCREEN(5):: CALL VC HAR(1.31.1.96):: DISPLAY AT(

1.4): "TIGERCUB HENU LOADER"

270 ! IF YOU HAVE MORE THAN

ONE DISK DRIVE, DELETE THE !

IN LINE 200 AND THE FIRST S TATEMENT IN 210 280 * DISPLAY AT(12,6): "DISK ? (1-3):" :: ACCEPT AT(12,19)SIZE(-1)VALIDATE("123"):D\$:: D\$="D\$K"&D\$&"." 299 D#="BSK1." :: OPEN #1:D# , INPUT , RELATIVE, INTERNAL :: INPUT #1:Ns.A.J.K :: DISPLA Y AT(1,2)SIZE(27):SE6*(04,1, 4)&" - Diskname= "&N\$: 300 DISPLAY AT(2,2): "Availab le=";K;"Used=";J-K;" Proq Fi lename Size Type":"--------- --- ---- 1: 1.V Te8 :: TT=J-K 31# FOR X=1 TO 127 :: IF X/2 6()INT(X/28)THEN 348 320 DISPLAY AT(24,1): "Choice ? Enter for more 9" :: ACCEP T AT(24,24) VALIDATE(DIGIT) SI ZE(-3):K :: [F K=8 THEN 338 :: IF K)D AND K(NM+1 THEN 68 9 ELSE 320 33# X=1 348 1=1+1 :: IF I>127 THEN K =X :: 60T0 510 350 INPUT #1:P\$,A,J,B :: NN= MAL ! 360 IF LEN(P\$)=0 THEN 430 370 DISPLAY AT(X+4.1): USING 210:NN :: DISPLAY AT(X+4.5): P\$:: P6\$(NN)=P\$:: DISPLAY AT(X+4,16):USIN6 210:J :: DI SPLAY AT(X+4,20):T\$(ABS(A)) 380 V(NN,1)=A :: V(NN,2)=AB5 (B):: V(MN,3)=J 390 X\$=" "&STR\$(B):: DISPLA Y AT(X+4,24):SEG#(X6.LEN(X6) -2.3):: VT=VT+J 400 IF A>0 THEM 410 :: DISPL AY AT(X+4.28):"Y" 418 CALL KEY(B,KK,ST):: IF S T=0 THEN 420 :: FLAG=1 :: 60 TO 430 428 NEXT X 430 DISPLAY AT(X+4,1):USING 228: NN :: DISPLAY AT(X+5.1): USING 230:NN+1 440 IF VT=TT OR FLAG=1 THEN 460 :: DISPLAY AT(2,25)SIZE(450 FOR @=1 TO 10 :: DISPLAY AT(2,25)SIZE(1):CHR\$(30):: DISPLAY AT(2.25)SIZE(1):" " :: CALL SOUND (-99, 118, 8, -4, 8):: NEXT @ 460 IF FLAG=1 THEN 470 :: DI SPLAY AT(X+4,13):USING 240:N N+2 :: DISPLAY AT(X+5,13):US

ING 250: NN+3 478 DISPLAY AT(X+6,1):* hoice?" :: ACCEPT AT(X+6.16) SIZE(-3) VALIDATE(DISIT):K 480 IF FLAG=1 THEN 500 490 IF K=NN+2 THEN 840 ELSE IF K=NN+3 THEN CLOSE #1 :: N N=0 :: 60T0 190 500 IF K<>NN AND K<>NN+1 THE 510 IF K=NN THEN CALL CLEAR f: CLOSE #1 :: END 520 DISPLAY AT(X+5,12)SIZE(1 2): * #?" :: ACCEPT AT(X+5.15)SIZE(2) VALIBATE(DISIT):KD : : IF KD(1 OR KD)NN THEN 528 538 IF V(KB,1)>8 THEN 559 540 FOR J=1 TO 10 :: DISPLAY AT(11,1): ": PROTECTED -CANNOT DELETE": " :: DISPL AY AT(12.1):" " :: NEXT J :: 60TG 578 550 DISPLAY AT!X+6,1)SIZE(27)BEEP: " Verify - Deleta ":P6 *(KD): "?" :: DISPLAY AT(X+6. 28) SIZE(1): "Y" :: ACCEPT AT(X+6.28)SIZE(-1)VALIDATE("YN"):Q\$:: IF Q\$<>"Y" THEN 578 560 DELETE DS&PG\$ (KD). 570 CLOSE #1 589 CALL VCHAR(1,3,32,672):: NN=0 :: X=0 :: FLA6=0 :: 60 590 IF K(1 OR K>127 OR LEN(P 6\$(K))=0 THEN 439 600 IF ABS(V(K,1))=5 OR ABS(V(K.1))=4 AND V(K.2)=254 THE 618 DISPLAY AT(12,1) ERASE AL L: "Print to ? S": : "(P) rinte r?":"(S)creen?" :: ACCEPT AT (12,12) SIZE (-1) VALIDATE (*PS*):Q\$:: IF Q\$="S" THEN PP=0 :: 60TO 630 628 DISPLAY AT(12,1) ERASE AL L: "PRINTER? PIO" :: ACCEPT A T(12.10)SIZE(-18):P\$:: OPEN #3:P\$:: PP=3 639 CALL CLEAR :: CALL SCREE N(16):: ON ABS(V(K,1))60TO 6 80.698,750,768 648 CLOSE \$1 :: IF SEG\$(PG\$(K), LEN(PG\$(K)), 1)="=" THEN D ISPLAY AT(12,1) ERASE ALL: "RE TURN TO BASIC AND LOAD BY":" TYPING OLD *;D\$&PG\$(K):: STO 650 CALL PEEK(-31952,A,8):: CALL PEEK(A*256+B-65534,A,B)

:: C=A=256+B-65534 :: A\$=D\$&

P6*(k):: CALL LOAD(C.LEN(A*) 660 FOR I=1 TO LEN(A\$):: CAL L LOAD(C+1,ASC(SE6*(A*,I,1))):: NEXT I :: CALL LOAD(C+I, 670 CALL VCHAR(1,3,32,672):: CALL SCREEN(8):: FOR S=0 TO 14 :: CALL COLOR(\$,2,1):: N EXT S :: DISPLAY AT(12.2):"L DADING ":A\$:: GOTO 900 660 OPEN #2:D#&PG#(K), INPUT ,FIXED :: GOTO 700 690 OPEN #2:D\$&PG\$(K).IMPUT 788 LINPUT \$2:W\$ 11 PRINT \$P P: NS :: IF EDF(2) THEN 738 710 CALL KEY(0,K,S):: IF S=0 THEN 788 728 CALL XEY(8, K2, S2):: IF S 2(1 THEN 720 ELSE 700 730 CLOSE #1 :: CLOSE #2 :: PRINT " >>>press any key<< <" :: IF Q\$="P" THEN CLOSE # 746 CALL KEY(6.K.ST):: IF ST <1 THEN 740 ELSE 580</p> 750 OPEN #2:0\$&P6\$(K).IMPUT .INTERNAL.FIXED :: J=0 :: 60 TO 770 760 OPEN #2:0\$4P6\$(K), INPUT , INTERNAL :: J=0 770 IF EOF(2)=1 THEN 730 :: J=J+1 :: INPUT #2:M\$:: IF L EN (MS) =8 THEN 790 788 PRINT #PP:M\$:: 60TO 828 790 FOR Y=1 TO 8 :: @@=ASC(S E6\$(M\$, Y, 1)):: IF @@<32 OR @ e>127 THEN 818 800 NEXT Y :: 60T0 780 810 RESTORE #2 :: FOR X=1 TO J-1 :: IMPUT #2:M# :: NEXT X :: IMPUT #2:M :: PRINT #PP 820 CALL KEY(0,K,S):: IF S=0 THEN 770 830 CALL KEY(0,K2,S2):: IF S 2(1 THEN 830 ELSE 770 840 DISPLAY AT (24,1): "PRINTE R NAME? PID" :: ACCEPT AT(24 .15)SIZE(-14):PP\$:: OPEN #2 :PP\$:: PRINT #2:SEG#{D\$,1.4)4" - Diskname= "4N\$ 850 PRINT #2:RPT#("#",28):"A vailable=":358-VT:"Used=";VT :RPT#(***,28) B69 PRINT #2: "FILENAME SIZE TYPE":RPT\$("_",28) 870 FOR P=1 TO NN-1 :: PRINT #2:P6\$(P);TAB(15);V(P,3);TA

B(20):T\$(ABS(V(P.1))):TAB(25

); V(P, 2):: NEXT P :: CLOSE # BBO DISPLAY AT(12,3) ERASE AL L: "(P) to print again": " (R) to rescan": " (0) to quit" 896 ACCEPT AT(15,4) VALIDATE("PQR")SIZE(-1)BEEP:Q\$:: 1F D\$="P" THEN 846 :: CLOSE #1 :: NN=0 :: IF Q5="R" THEN 19 D ELSE END 900 RUN "DSKX.1234567890" This version turns off the Quit key, restarts itself rather than crashing on an I/O error, and has pre-scan for faster start-us. It displays disk name, sectors available and sectors presumably used - it totals up actual sectors used and sounds a warning if any sectors are not accounted for. prograes and and write-protection. each end Of on Enter. continuing will load

It lists up to 127 files Þν number, filename, number of sectors, organia or file type, file record length, It will stop for menu selection on any keypress or at the screen, and run any program that can run from Extended Basic, displaying its filename while loading. If the filename ends in an asterisk, it will warn you to return to Basic. It will unprotected delete any program or file, after first requiring verification by filename, or will inform you if the file is protected. It will read any readable file, including internal numeric, and list it to screen or printer. It will dump a catalog of the disk to your printer, and it will offer the pation of quitting or rescanning the disk or another disk. And it's free. I don't even want a freeware donation - but I would appreciate if you would take a look at my catalog and see

somewhere among those 140 programs, there might has something you would be willing to pay \$3 for? The Menu Loader is included as a bonus on every disk I sell!

100 CALL CLEAR :: RANDONIZE

:: DISPLAY AT(3,4): TIGERCUB

MATH PUZZLE" 119 DISPLAY AT(6,1): "Insert +, -, & (multiply) OR / (div ide) between the digits to equal the total": :"Type A to give up" 128 DISPLAY AT(12.1): "Level 1 or 2?" :: ACCEPT AT(12,15) VALIDATE ("12"):L\$ 130 T, X=INT(9#RND+1):: ##=ST R\$(X):: Z\$=M\$&" " 140 FOR J=1 TO 4 :: Y(J)=INT ON Z 60SUB 240,250,260,270 :: Z\$=Z\$&STR\$(Y(J))&" " :: N EXT J 158 IF L\$="1" AND T<>INT(T)T HEN 130 :: Z\$=Z\$&"="&STR\$(T) 160 DISPLAY AT(12.1):28 :: D ISPLAY AT(18.1): " :: DISPL AY AT(28,1): " :: DISPLAY A T(22.1): " " 170 P=2 :: FOR J=1 TO 4 :: A CCEPT AT(12,P)VALIDATE("Q+-# /*)SIZE(1):S\$ 180 IF S#="8" THEN 200 ELSE IF S\$="+" THEN X=X+Y(J)ELSE IF S\$="-" THEN X=X-Y(J)ELSE IF GS+"=" THEN X=X=Y(J)ELSE X=X/Y(J) 198 P=P+2 :: NEXT J :: IF X= T THEN 238 :: DISPLAY AT(18, 1): "WRONS!" 200 DISPLAY AT(20.1): "ANSWER IS ":H\$ 210 DISPLAY AT(22,1): PRESS ANY KEY" 220 CALL KEY(0,K,ST):: IF ST (1 THEN 229 TE 60TO 130 230 DISPLAY AT(18,1): "RIGHT! " :: 60T0 218 248 MS=MS&"+"&STR\$(Y(J)):: T *T+Y(3):: RETURN 25# Ms=Ms&"-"&STR\$(Y(J)):: T *T-Y(J):: RETURN 268 Ms=M\$&"*"&STR\$(Y(J)):: T =T=Y(J):: RETURN 27# Ms=M\$&"/"&STR\$(Y(J)):: T =T/Y(J):: RETURN

Enjoy!

Jia Peterson

HOOSIER USERS GROUP DIRECTORY

HOGSIER USERS GROUP OFFICERS

President......Stave Sims 631-7255
Vice-President....Bill Lucid 291-3995
'ecretary......Barb Uhrig 357-8268
Freasurer.....Bill Jones

COMMITTEE CHAIRPERSONS

Regional Centers:

South......Dennis Sherfy 881-5918 West Indiana..Vic Kelson 812-234-5533

Documents.....Don Donlan 882-4544 Membership......Pam Sims 631-7255 Newsletter.....Pam Sims 631-7255

MONTHLY MEETING LOCATION

Creative Logic 8240 Indy Lane Indianapolis, IN 46224

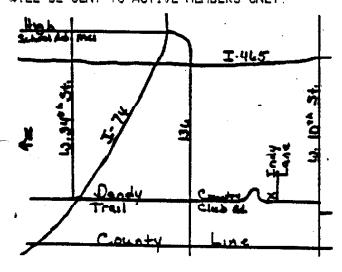
(About 1800 North Country Club Road)

NEWSLETTER EXCHANGE

The Hoosier Users is participating in a Newsletter Exchange program with other TI Users Groups. This offer is made with the understanding that, with proper credit, your Users Group can reprint articles from the Hoosier Users Group Newsletter, and with proper credit, we can reprint articles from other TI Users Groups Newsletters.

PRINTOUTS

Library listings can be ordered for \$.25 & a 6x9 self addressed envelope with \$.66 postage. The HUGbbs Reference Guide can be ordered for \$.50 and a 4x9 self addressed envelope with \$.22 postage. Please send orders to our P.O. Box. SORRY, PRINTOUTS WILL BE SENT TO ACTIVE MEMBERS ONLY!



HUGbbs INFORMATION

317-631-994A

The HUGbbs operates on a 24 hour basis.

SPONSOR THE HUGbbs: Any member or retail business can sponsor the HUGbbs. For a \$5.00 donation, you get 5 (40 column) lines on the Log-On Title Screen for a week (or for a \$10.00 donation, you get 18 (40 column) lines) plus a 24 line by 40 character ad in the Sales option of the File Module. To sponsor the HUGbbs, send a check or money order to our P.O. Box (or turn in at our Monthly Meeting). specifying how many weeks (and how many lines) you want to sponsor, your name (or company name), address, phone, what you want to say, and the week (and an alternate week) you want the ad to appear.*

BACK ISSUES

Back Issues purchased at the monthly meeting is \$1.00 each. Mail order price is \$1.50 per Newsletter (postage included). Orders will be filled within 3 weeks of receipt by the Documents Committee.

ADVERTISING POLICIES

There will be no charge for advertisements submitted to the HUGger Newsletter by members (for private sale only). Format for the advertisements is 45 characters wide by 10 lines long. The Ad should be typed or hand printed exactly how it is to appear in the Newsletter. Deadline for an ad to appear in next month's Newsletter is the 2nd Saturday of the month.*

For companies who wish to advertise in the HUBger Newsletter, our nates are as follows:

Pre-Printed Inserts (one page) \$20.00

One Full Page (one sided) Ad: \$25.00

One Half Page Ad: \$13.00

One Quarter Page Ad: \$7.00

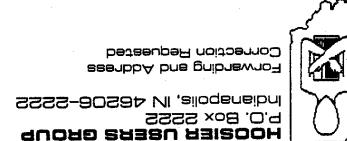
All ads must be in a ready to print condition. Advertisements must be in our P.O. Box before the 2nd Saturday of the month to appear in the following month's Newsletter.*

*NOTE: The Officers of the Hoosier Users Group reserve final approval on all advertisements submitted for the HUGger Newsletter and the HUGbbs. The Officers and the Newsletter committee are not responsible for typographical errors due to illegible advertisements. All proceeds are accepted as donations to the Hoosier Users Group.

JAN. 7 1986

Darad amir Oder T. MAL JAIRATAM

Bulk Rate
U.S. Postage
D.S. Postage
Indianapolis, IN
Permit No. 6440



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.

Below you will find an application for Make check or money order payable to membership to the Hoosier Users Group. Active Hoosier Users Group. Send completed applimembership entitles you to the Newsletter, up cation to:

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

	(Cut on dotted line)		
Check One:			
Active Member	Name:	Today's Date:	
New: \$20 Renewal: 15 Subscribing Member	Address:		
New: \$10 Renewal: 7.50	City:	State:	Zip:
Amount Enclosed: \$	Phone: ()	·	
# D S O	Interests/Comments:		