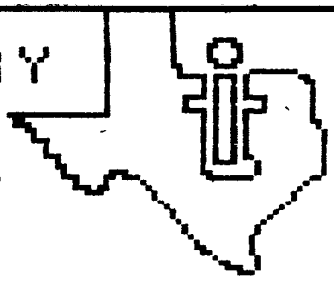
GREATER TAMPA BAY TI USER GROUP



FEBRUARY 1989

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NEXT MEETING FEB 7'89 AT 7:00 PM

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Greater Tampa Bay TI User Group meets in Brandon Fla. on the first and third Tuesday of each month at Brandon High School in room 352.

The first Tuesday of the month is the general business meeting and to show off new hardware or software programs.

The third Tuesday is set aside for special interest group. If you have a problem with either hardware or software , this is the meeting to come to.

****

Officers

President: Charles Kinsey 687-8407

Vice President: Paul Wiese 985-1048

Librarian: James McGlone 962-1857

Secretary: Brenda Burwell 886-5942

Treasurer: John Hartweg 935-2694

Editor: Robert Barnes 533-2275

****

****** TI HEAVEN ******

Clubs BBS 8/N/1 2400/1200/300 Baud 24 Hrs

PC Pursuit: Accessible FLTAM Sysop: Gary Sweers

813-654-titi (8484)

****

****** Cy's Swap Shop ******

2400/1200/300 Baud 24hrs 8/N/1 Sysop: Cy Leonard

PC Pursuit Not Accessible but well worth the cost to sign on.

813-725-4568

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THINKING OUT LOUD

by: Robert E. Barnes

Don't forget your SWEETHEART on Valentines Day this month, February 14th, to be exact. Now don't say you were not warned.

So far my plea for volunteer's to write articles for the newsletter has corralled one person, your new president. He has offered not only the expected PRESIDENTIAL RAMBLINGS but has also offered a new column that he wants to call FROM THE PRESIDENT'S DEN. Hopefully this will become a monthly column for your enjoyment.

We will be starting a new sig group following the first part of our sig meeting the 3rd Tuesday each month. This group will be for those that have obtained TI-BASE, or are thinking about getting it. The idea was kicked around at the last sig meeting, discussed, and a decision made for the TI-Base sig to begin in March with Paul Wiese leading it. Way to go Paul...

This month's newsletter offers you the 3rd part of Audrey Bucher's Multiplan series. I have heard no complains from anyone so I assume this is filling a need in our group. Jim Sledlow's series is winding down, since this issue offers article #14 of the 16 articles in the series. I for one will miss those artilces when they are finished.

And of course, there are Jim Peterson's TigerTips, some of you heard a little talk about them at the last meeting January 4th. Again, I have heard no complains from the reader's, so I assume they are also filling a need in our group.

The whole purpose of the above ramblings is to try and make you, the readers, understand that I am only putting into the newsletter what I "think" you want to read. Understand that these articles for the most part interest me and may not be what you want to see. So, speak up and/or volunteer to help find things of interest to you and others. Help me make this a newsletter that is both informative and interesting to the majority of our members.

PRESIDENTIAL RAMBLINGS

by: Charles N. Kinsey

I Would like to thank all of you for supporting me at the last club meeting. As far as I can tell everything seemed to go fairly well considering that it was the new president's first meeting. It was my "getting my feet wet meeting". Let me say that at least after the meeting I did not hear any grumblings of impeachment.

I do not plan to make any radical departures from the the format that has been used in the past, when something works why change it. Anyway, Tom Austin has been doing a fantastic job and his help in making the transition for me has been invaluable and appreciated.

As usual, at the meeting there did not seem to be any problem in finding somebody that was willing to talk. We explained the reason for the initiation dues for new members. At one point last year we had a discussion on the new member dues and decided to have a ten dollar initiation fee to be used mainly for equipment upkeep. The twelve dollar membership fee is used mainly for the newsletter. There was a discussion on sending post cards as a reminder of meeting dates and letting members pick up their newsletters at the meetings. I felt that part of the dues we pay should guarantee members a newsletter in the mail. Some of our members are not able to attend as often as they would like to for different reasons and their main contact as to what is going on in the TI world may be through our newsletter.

Henry suggested that we send Gary Bowser's family flowers. The motion was passed and it will be taken care of.

Gary Sweers has an original TI monitor that we passed a motion to send to TI for repair or replacement. This monitor will belong to the club and replace the TV we have been using. I for one will appreciate this new addition because the present TV system is hard to see. John will be ordering about 1000 disks to sell to club members, so hold off a little longer before you purchase your diskettes.

There was some help from our resident supercart GURU, Gary Sweers, on questions concerning the use of this software.

James McGlone has the library and is now open for business.

Our ex-librarian gave an excellent demo of Quadlister and showed us features that some of us were not acquainted with, this was obvious from some of our questions. Hope all of you had a happy and joyfull Christmas and a safe New Year. Remember your New Years resolution and we hope to see you all soon.

THE LIBRARIAN

by: Jim McGlone

I've added two disks to the library this month. Funnel Web 4.1 has been out a while but hadn't been put in the library yet. It is a complete system disk. For you new people it is a double sided or flippy disk with a word processer and formater, an editor assembler, and a loader program. It has a good disk manager on the disk too. There is also a utility to install Funnel Web in the Super Cart. I am going to keep Funnel Web 4.0 in the library. It is a better version

for installing on the Horizon Ram Disk. I use the UTIL1 file along with BOOT on my HRD to make an all complete system of loaders and utilities.

The other disk is Herman Nieuwendaal's Quad Lister 4.4 This is a great catalog utility. It will print four regular catalogs side by side or two commented catalogs side by side. It supports most printers around and is easy to change the printer codes for other printers.

We had alot of new people at the last SIG meeting. Most didn't know what the needed from the library to get started with. I am going to recommend four disks you should have to start with. First get one of the last two versions of Funnel Web for your system disk. Then get Disku 4.21 for a disk manager. It's more comprehensive than DM-1000 that is on the Funnel Web disks. Then for the beginner Mass Transfer 4.3 is the terminal program to get. It has a menu and is easy to set up if you follow the instructions. The docs for all of the programs are on the disks for you to print out or read from the word proceeser. MENU-SC and BOOT are two good loader programs to round out your system disks.

I have a complete catalog of the library I'll bring to the meeting. You can order a catalog or down load your own from the BBS. (TI-Heaven BBS ... ed.)

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TI BITS Number 14
by: Jim Swedlow

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[This article originally appeared in the User Group of Orange County, California ROM]

A MULTIPLAN APPLICATION
PAYING YOUR BILLS

Home computers were sold for many things, some of which were even possible. One of the big selling points was managing your home finances. That was one of the motives behind my purchase. Well, folks, 'twern't true. A calculator is vastly superior for balancing a check book and, for most of us, the time and trouble required to maintain home records outweigh the benefits.

After many false starts, I developed a Multiplan application that I use for paying my bills. I wanted to automate the manual process of deciding how much goes to whom. That was a pencil, paper and calculator exercise of writing down what I owed, adding it up and then figuring how to dole out what was in my paycheck. Sound familiar?

This application does the following:

o Remembers your fixed expenses (house note, etc).

o Has a place for the monthly expenses that vary (utilities, etc).

o Keeps track of the running balance and the check number for each check.

A sample of the finished product should appear elsewhere in this issue. Here are step by step instructions for making it.

With a blank Multiplan screen, press <F> for Format and then <D> for Default. Press <W> for Width and set the default width to 11. Then press <ENTER>. For those of you who are not used to Multiplan, in this and following steps, don't press <ENTER> until I tell you to.

Press <F> for Format and then <C> for Cells. Type in C3:4 and then tab (CTRL 2) twice. Press <$> and then press <ENTER>.

Move your cursor to R1C4 and press <F> for Format and then <C> for Cells. Press tab <CTRL 2> twice. Press <D> for DEFault and then <ENTER>. Move the cursor to R9C3 and repeat this process.

Push <O> for Options and then <N> (to turn 'recalc' OFF). Now press <ENTER>.

Move your cursor to R1C1, and press <F> for Format and then <W> for Width. Set the column width for column 1 as 6.

Enter the data for the first twelve rows. Be careful that the numbers are entered as values not as alpha characters. For the dollar amounts, don't enter the dollar sign, Multiplan will add it. Use amounts that fit your situation. It is not necessary to enter the decimal if there are no cents (.00).

1	2	3	4
1		OCTOBER	1987
2			
3	CHECK DUE TO	AMOUNT	BALANCE
4			
5	Balance	$100.00	
6	Pay Check	$900.00	
7	Service Chg	$6.00	
8	Cash	$20.00	
9	Next Check	1223	
10			
11	MORTGAGE	$234.44	
12	GAS	$57.20	

Now we are ready for some formulas:

Location	Formula
R5C4	=R5C3
R6C4	=R5C4+R6C3
R7C4	=R6C4-R7C3
R8C4	=R7C4-R8C3

What have we done? We made a place for your beginning check book balance. We have a cell for the amount of your pay check, your monthly service charge AND for that handy cash advance you got from the electronic teller on the way home. We have entered formulas for updating your check book balance. Finally, we told Multiplan the number

of the next blank check in your check book.

Two more formulas:

Location	Formula
R11C4	=R8C4-R11C3
R11C1	=IF(R11C3=0,R9C3-1,R9C3)

More about that IF function later. For the formulas in row 12 we need to move the cursor. Place the cursor on R12C4 and press <=>. Move the cursor to R11C4 and then press <->. Now move the cursor the R12C3 and then press <ENTER>. Your formula should look like this:

R[-1]C-RC[-1]

Move your cursor to R12C1 and press <=>. Type 'IF('. [The single quote mark is used here to show what you type in - in this case letter I, letter F and open parens.] Move the cursor to R12C3 and then type '>0,'. Now move the cursor to R11C1 and type '+1,'. Move the cursor to R11C1 again and then type ')' and then press <ENTER>. The formula should read:

IF(RC[+2]>0,R[-1]C+1,R[-1]C)

This IF function tells Multiplan what check number to put in R12C1. If R12C3 (the amount of the check for that row) is greater than zero (>0 or you are paying that person something), increase the check number for the previous line (R[-1]C or R11C1 in this case) by one, otherwise copy it.

The end is in sight. Figure the highest number of bills you will ever pay and add a few. Lets say your total is 15. Move your cursor to R12C1 and press <C> for copy and then <D> for down. Type in 13 (you already have two) for the number of cells and then tab (CTRL 2) to the 'starting at' field and change it to R12C1:4. Now press <ENTER>.

We need some totals. Now move to R27C1 (use <G> for Go). If your number of bils is other than 15, the location of tese total lines will be different.
Enter:

R27C2	TOTALS
R27C3	=SUM(R11:25C4)
R27C4	=R25C4

This repeats your final check book balance and totals the amounts you have paid.

The next step is to lock your formulas. Press <L> for Lock and then <F> for formulas. Then press <Y> to confirm.

You must now unlock some cells that your will want to change. Press <L> for Lock and then <C> for Cells. Type in R11:25C2 and then press tab (CTRL 2). Press <U> to Unlock and then <ENTER>.

You should also unlock the month cell. Move your cursor to R1C3 and press <L> for Lock. Press <C> for Cells and then tab (CTRL 2). Now press <U> to Unlock and then <ENTER>.

Now all you have to do is to go back in and enter your numbers and the names of the fine folks you owe money to and how much you owe.

You have built your spreadsheet.

Since automatic recalculation is off, remember to press Recalc (FCTN 8) to update the totals when you change information. You should <T>ransfer <S>ave this sheet before going any further.

About once a week, I update my sheet with the bills that came in the mail (bills and ads seems to be most of the Postal Service's offerings). On payday, I enter my check book balance, the next check number and the amount my employer paid me. I can adjust what I pay to make sure I have enough left over to make it until next payday. As Bill Harms says, you can go "what-if'ing" to work out the best solution.

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FROM THE PRESIDENT'S DEN
by: Charles Kinsey

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On 10 JAN I joined in on a conference on compuserve. The following information is a transcript of the different information that was exchanged.
Asgard programmer Jim Reiss was hosting the TI FORUM Programming Workshop.
Barry Boone of Archiver fame was the main attraction, however as you may see this Programmer is much more talented than we realized. We are very lucky that talent like this is still contributing to our "orphan".

(2,Jim Reiss) Looks like we've got a quorum already, want to get started, Barry?
(2,Barry B.) sure
(2,Jim Reiss) OK, would you like to make any statements before we go to questions?
(2,Barry B.) might as well start with questions, I'll probably think of a few things along the way
(2,Jim Reiss) OK, anyone have a ? to start with?
(2,Matt) ?
(2,Jim Reiss) OK, Matt, GA.
(2,Matt) Barry, we are all familiar with ARCHIVER, what other contributions have you mad to our community? (program wise) ga
(2,Barry B.) hmm... the first "micro-utility" I did was Systex (just made it easy to mix XB and A/L ... circa 1985) then there was Rapid Copy... and some A/L for the CS6D series... (and of course several things behind the scenes... <grin>)
(2,Jim Reiss) XB/ALSAVE stole some thunder with Systex, didn't it?
(2,Barry B.) I have several new projects now in various stages of completion
(2,Matt) clap clap clap!

(2,Charles K.) Note, at this point I asked a question whether anybody was doing any work with voice recognition on the MBX expansion system.
(2,Barry B.) Charles, I have almost completed a package for MBX that allows the user to use it from assembly language OR EXTENDED B should be out in a few months... ga
(2,Jim Reiss) [Any follow up, Charles? If not, then Matt (2,Matt) can it be used on the Geneve? and how does it run it's I/OP on the joystick bus? ga
(2,Barry B.) Theoretically, it could run on geneve (but I don't have one to try it with) Charles... it will be commercially available from Texaments or from me (I'll be posting all over when it is out) ga
(2,Matt) what kind of features will your program access on the MBX system? ga
(2,Barry B.) MBX I/O is serial and bidirectional thru the joy port Access to all keypad keys... full access to the joysticks... voice recognition keypad returns up to two simultaneous keys... in its split mode)
(2,Matt) how good (extensive) is the voice recocnition? ga
(2,Barry B.) joystick returns values from 0-255 on x,y, and z and the buttons are individually accessible The voice recognition works as follows... You may allocate as many templates as will fit in MBX's memory (not sure yet what the upper limit is, but it is over 20 words) and subdivide the words into groups if desired... when the person speaks into the mike, the user software specifies which word group to search, and MBX tells which word was said, plus a number from 0-255 which indicates how close the match was (i.e. the probability that MBX made the correct match
Note, Matt asked if the MBX system was still available (2,Barry B.) MBX's may be available, but not sure where offhand...
(2,Matt) ok, you can load in any words you'd like then?
(2,Barry B.) it's like the games, you train MBX with your voice by speaking the words into it initially... it figures out what you say based on that... I am working on a way to save the trained patterns to disk so that you need only train it once.... ga
(2,TONY LEWIS) Hi guys, on for only a few minutes to monitor things tonite before turning in.
(2,Matt) ok i'm done ga
(2,Jim Reiss) Next ? anyone?
(2,Barry B.) (I have discovered commands in MBX that allow you to read/write to it's internal memory)...ga
(2,Matt) oh,... what are there availability? MBX's that is ga
(2,TONY LEWIS) Jim, can I make a quick comment about my new Interface Standard project this winter
(2,Barry B.) Matt... not sure, you may be able to find surplus dealers who have them... ga
(2,Jim Reiss) Sure, OK with you, Barry?
(2,Barry B.) sure
(2,Jim Reiss) ga Tony
(2,TONY LEWIS) OK, briefly, I'll be sending out letters this month, along with short announcement to Comp Shopper and Micropendium looking for help from the "pros" out there in the TI world to help put together the definitive source of info for people who want to develop peripherals for the TI system. Hope there is enough interest....seems to be so far.
(2,TONY LEWIS) Does anyone think there is a need for such a manual? So far, have developed outline of what is to be in it. No words on paper yet.
(2,Jim Reiss) Tony, it should be a great companion to the prototyping board available. I guess we should move on to next ? for Barry...anyone?
(2,Michael Dorman) ?
(2,Jim Reiss) GA M.D.
(2,Michael Dorman) Barry, are you working on an archiver for hard drive?
(2,Barry B.) Yes... but I've been awaiting an updated EPROM for my HFDC... as soon as I get that, I'll go ahead and set it up...ga
(2,Michael Dorman) sounds great. ga
Note, I asked about 32 K console memory expansion....
(2,Jim Reiss) Charles, what you want is typically referred to as 16-bit... 32K, which I believe may be available from Bud Mills Services. Bud Mills basically deals in kits Anyone break in if they think Bud dosn't sell this.
(2,Jim Reiss) (doesn't)
(2,Barry B.) Charles, I have this on my console... works GREAT (I have one of the more "unique" systems)
(2,JerryC) There is a detailed "how to" in DL1
(2,Barry B.) I also have a 14.31818 crystal... programs run about twice as fast
(2,JerryC) ?
(2,Jim Reiss) GA Jerry
(2,JerryC) Barry, did you patch your TE for the faster crystal:?
(2,Barry B.) Yes... for things such as Fastterm, etc (Telco allows you to enter a baud rate, so I applied a correction factor (i.e. told it 2011 baud instead of 2400)
(2,JerryC) Would like to see the patches. slick!
(2,Barry B.) (as a last resort I left the 12 Mhz in there, and have a switch to go back and forth...)
(2,JerryC) Used a 14... on a 9640 but lost comm facility.
(2,Barry B.) Also decoded an additional 8K via a switch... now have a internal supercart on the 16 bit bus
(2,Matt) Barry what is the addrees, and amount you want for ARCHIVER?
(2,Barry B.) Address is: Barry Boone, P.O. Box 1233, Sand Springs, OK 74063 The amount is up to the user (averages $15- $25) If anyone is interested... EZ way to tell if a I/F 128 file is an ARC file... See if the first byte is >80 (chr$(128)), if it is it is an arc file

MULTIPLAN
by: Audrey Bucher

Part 3 GETTING STARTED

After selecting Multiplan from the main screen, you may want to change your screen colors. Do this by hitting the space bar until the background and foreground colors are to your liking. Make sure your MP disk is in the drive(any drive) and hit enter. Multiplan will automatically load. At the bottom of your screen, you will see a command line. You may select a command by typing its first letter or you can press the space bar until the command you want is highlighted and use enter to select it. Many of the commands have several options which will automatically appear on the command line when selected. Use the same method to select options. Whenever the word Command shows at the bottom of your screen, Multiplan expects you to type a command, enter a value or enter a formula. The first character you type designates what is chosen. A letter designates a command, a number designates a value and an equal (=) sign designates a formula. The most frequent mistake you will probably make is when entering text. Alpha is automatically highlighted when you enter Multiplan and is selected if you hit enter or an A. I often forget to do this when typing text. I begin typing in my text and am surprised to see that MP thinks I want to delete something (if my text began with a d) or move something (if my text began with an m) Get the picture? Thank heaven for the cancel key. Just hit CNTRL = and this will cancel the unwanted command.

The first command you will want to select after entering MP is O for Options. You will then be given another Command line. Yes is highlighted for recalc. You will want to change this to No. Do this by entering N or hit space bar until No is highlighted and then hit enter. THIS IS IMPORTANT, OTHERWISE MP WILL RECALCULATE THE ENTIRE SPREADSHEET EVERY TIME YOU MAKE AN ENTRY. Don't worry. If at anytime you want to have an individual cell recalculated, you may just move the pointer to that cell and hit E for edit. That cell will be recalcuated for you. You may also recalculate the entire sheet at any time by hitting FCTN 8.

Now on to making a template. Let's begin by making a simple checkbook balancing model that will allow you to balance your checkbook easily and also provide you with a means of tracking expenses for your budget on another spreadsheet using the Xternal copy command (we'll cover that in a future article). The first step I take is to change the default formatting commands to what I will most commonly use in that particular spreadsheet. Do this by selecting F for Format and then choose D for default. You then have a choice of cells or width. The preset default for width is 8 however I usually change it to 10. F for Format, D for Default & W for Width. I then change the default for cells. (F for format, D for default and C for cells) There are three characteristics of the Format Default for cells, alignment, code and number of decimal places. When you first select this command, the defaults are set to General Alignment, General Format and 0 decimal places. General alignment is fine for now so tab over (CNTRL A or CNTRL 2) and change the format code to Fixed by typing F. DO NOT PRESS ENTER as yet. Enter is the signal for MP to execute the command and we are not finished as yet. Tab over to number of decimal places and type 2. Check the format now, Gen alignment, Fixed format and 2 decimal places. If it is not correct, just tab around until you get it right, then hit ENTER.

To keep it simple, let's choose seven categories: Food, Rent, Utilities, Insurance, Charges, Auto and Miscellaneous. Let's make line one the title for the worksheet. CNTRL 1 will take the cell pointer to the first cell if it is not already there. You may want to change the format for cell one to continuous code. F for format, C for cells and tab to the code and hit C. This will allow you to make your title as many characters as you choose. Suppose we enter Checks for January 1988. Remember, first hit A or enter for alpha. If you typed quickly, you may notice your title says Cecks for.... This is because MP is primed to accept words or numbers here and it needs a second to think things over. So try to get into the habit of typing your first letter, pausing for a beat and then type the rest as quickly as you like. If you notice the error before you hit enter, you can use the back character key (FCTN 4) an back space to the letter after the missing one, type it in, hit enter and all will be well. Now for the column headings. Move the pointer to R3C1, using the arrow keys. There will be 11 columns on the spreadsheet, headed: Check #, Deposit, Food, Rent, Utilities, Insurance, Charges, Auto, Misc. and Balance. Select the Alpha Command and type in Check#, use the right arrow key and type in Paid to, press right arrow key and so on until all headings are entered. OUT OF SPACE..MORE NEXT MONTH.

THIS 'N THAT
by: Robert E. Barnes

Taken from the Southwest Ninety-Niners Newsletter of Jan. 1989 is this programming tip. Also appeared in Spirit of 99 Newsletter, Barry Travers Diskazine and the Cleveland Area Newsletter.

Type in the following:

```
100 CALL INIT::CALL LOAD(-31952,255,0,
255,0)
110 END
```

Save it to your RamDisk or BOOT disk under any name you can remember. Then place it on your menu screen wherever you have room. This little 2 sector program will take you from the menu to Extended Basic with no drive search, which means Extended Basic won't go looking for a program named LOAD. Then you wll be able to program as you wish without removing the BOOT disk in order to stop the auto-load. The program also clears the memory just as NEW will so the program is not in memory once it is run. (Ed. note: No more waiting for that infernal DSK1.LOAD search before you can use your computer.)

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DOWNLOADED FROM COMPUSERVE
by: Charles Kinsey

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YOU THINK YOU GOT TROUBLES?

[Excerpt from the article "Schoene neue Welt" ("Beautiful New World") appearing in the latest issue of HOME COMPUTER AKTIV (TI-REVUE), Nr.6.88, p.4ff. Translated and uploaded to Compuserve by Wayne Stith with the permission of the publisher, HCA

After discussing baud rates, parallel and serial ports, data bits and the like, the article turns to a quirk in the German way of doing things. The phone system in Germany is run by the post office.

In this our country a communications-happy freak falls very quickly over the very tight edge of legality. The policy of our post office, which hopefully will have to change soon under pressure of the Common Market, is as it happens the number one barrier to sensible communication here. While the communications sector is blossoming and prospering in other countries, we find ourselves literally in the stone age of telecommunications. The reason for this?

In principle, everything which is not expressly allowed is forbidden. Thus, all post office terminal devices may be used without limit; unfortunately, their accomplishments do not coincide with the fees which the post office charges for them. Everything else is just about completely forbidden.

So there remain for the law-abiding citizen only some post office approved acoustic couplers whose prices (for 300 baud or for the mixed 1200/75) are still acceptable (between 250 and 350 marks). [At today's rates, that works out to about $142 to $199. -Tr.] An acoustic coupler for 1200 or even 2400 baud (the latest rage) with postal permission can only be had for prices 1000 marks and up [$570. -Tr.] An acoustic coupler is of course a nasty thing. The communications-crazed computer owner must take the phone off the hook, stick it in the holder of the acoustic coupler, and then dial the desired telephone number by hand. Then quickly run to the computer and work the communications program. Ah well, thousands of freaks do that every day.

But how much simpler it would be with one of the nice Hayes compatible modems with 2 year warranty which can be had with 300 and 1200 baud in full duplex for 400 Marks and up! [$228. -Tr.] However, they may only be used abroad or in your own internal private phone system. Such a modem is connected simply with two wires to the private phone system, connected to the computer via the interface to the RS 232, and that's it. If you wanted to call a mailbox [BBS. -Tr.], you would only have to type in the phone number on your computer; the rest is done by the communications program and the modem.

One must of course say that there are already postally approved modems offered by foreign sources. These are announced with great jubilation and move in price regions which are beyond discussion for the private person (1900 marks) [$1083.- Tr.]

Hayes compatible, incidentally, means that a modem follows a certain international standard and is automatically not postally approved (normally). It follows a certain command set, the Hayes commands. With these commands, which are simply sent to the modem, one can dial and set the modem parameters. Delicacies such as automatic baud rate recognition (that means that the modem recognizes whether a caller is sending at 300 or 1200 baud, for example, and adjusts itself automatically), automatic redial if the first call was unsuccessful, or automatic answer of a call--- all very fine things, unfortunately they are not allowed.

TREASURER'S REPORT
January 1989
by John Hartweg

Beginning balance		$ 639.90
Income		
17 Memberships	204.00	
10 BBS Service	116.00	
2 Maintenence fee	20.00	
Lotto receipts	16.00	
Interest	1,75	
	357.75	
Disbursed		
P. Wiese - postage	25.00	
J. Hartweg - disk order	195.00	
G. Sweers - monitor	20.00	
G. Sweers - BBS expenses	47.80	
	337.80	
Ending balance		659.85

TIPS FROM THE TIGERCUB

#48

TIGERCUB SOFTWARE
156 Collingwood Ave.
Columbus, OH 43213

Distributed 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.

Over 120 original programs in Basic and Extended Basic, available on cassette or disk, NOW REDUCED TO JUST $1.00 EACH!, plus $1.50 per order for cassette or disk and PP&H. Minimum order of $10.00. Cassette programs will not be available after my present stock of blanks is exhausted. The Handy Dandy series, and Color Programming Tutor, are no longer available on cassette.
Descriptive catalogs, while they last, $1.00 which is deductable from your first order.

Tigercub Full Disk Collections, reduced to $5 postpaid. Each of these contains either 5 or 6 of my regular catalog programs, and the remaining disk space has been filled with some of the best public domain programs of the same category. I am NOT selling public domain programs - they are a free bonus!
TIGERCUB'S BEST, PROGRAMMING TUTOR, PROGRAMMER'S UTILITIES, BRAIN GAMES, BRAIN TEASERS, BRAIN BUSTERS!, MANEUVERING GAMES, ACTION GAMES, REFLEX AND CONCENTRATION, TWO-PLAYER GAMES, KID GAMES, MORE GAMES, WORD GAMES, ELEMENTARY MATH, MIDDLE/HIGH SCHOOL MATH, VOCABULARY AND READING, MUSICAL EDUCATION, KALEIDOSCOPES AND DISPLAYS

NUTS & BOLTS DISKS
These are full disks of 100 or more utility subprograms in MERGE format, which you can merge into your own programs and use, almost like having another hundred CALLs available in Extended Basic. Each is accompanied by printed documentation giving an example of the use of each.
NUTS & BOLTS (No. 1) has 100 subprograms, a tutorial on using them, and 5 pp. documentation. NUTS & BOLTS No. 2 has 108 subprograms, 10 pp. of documentation. NUTS & BOLTS #3 has 140 subprograms and 11 pp. of documentation.
NOW JUST $15 EACH, POSTPAID.

TIPS FROM THE TIGERCUB
These are full disks which contain the programs and routines from the Tips from the Tigercub newsletters, in ready-to-run program format, plus text files of tips and instructions.
TIPS (Vol. 1) contains 50 original programs and files from Tips newsletters No. 1 through No. 14. TIPS VOL. 2 contains over 60 programs and files from Nos. 15 thru 24. TIPS VOL. 3 has another 62 from Nos. 25 through 32. TIPS VOL. 4 has 48 more from issues No. 33 through 41.
NOW JUST $10 EACH, POSTPAID.

```
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
$          NOW READY            $
$ TIPS FROM TIGERCUB VOL.5      $
$ Another 49 programs and       $
$ files from issues No. 42      $
$ through 50. Also $10 ppd      $
$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$$
```

TIGERCUB CARE DISKS #1,#2,#3 and #4. Full disks of text files (printer required).
No. 1 contains the Tips newsletters #42 thru #45, etc. Nos. 2 and 3 have articles mostly on Extended Basic programming. No. 4 contains Tips newsletters Nos. 46-52. These were prepared for user group newsletter editors but are available to anyone else for $5 each postpaid.

If you have ever used TRACE to debug a program, you know that it won't dump to a printer, and that it messes up the screen format. The new Super Extended Basic, or the Gram Kracker, will dump to the printer, but you still won't know what is going on line by line or within multiple-statement lines. Now, Supertrace will break the program into single-statement lines and TRACE each statement in the corner of the screen, or dump it to the printer, or both - and you can also pause at any time, or step through line by line.

```
100 GOTO 140
110 SET,C$,END$,Z$,E$,K$,S$,
K,S,IF$,OF$,D$,FL,TL,N$,LN,L
N2,P,T,LN$,A$,R,P$,QQ,PD$,KC
,KC$
120 CALL CHAR :: CALL CLEAR
 :: CALL COLOR :: CALL SCREEN
 :: CALL KEY :: CALL SOUND
130 !@P-
140 CALL CHAR(94,"3C4299A1A1
99423C"):: CALL CLEAR :: FOR
 SET=1 TO 14 :: CALL COLOR(S
ET,13,15):: NEXT SET :: CALL
 SCREEN(13)
150 C$=CHR$(157)&CHR$(200)&C
HR$(1)&"A"&CHR$(183)&CHR$(20
0):: END$=CHR$(255)&CHR$(255
):: Z$=CHR$(131)&CHR$(147)&C
HR$(134)&CHR$(163)
160 E$=CHR$(0):: K$=CHR$(182
):: S$=CHR$(130)
170 DISPLAY AT(2,5)ERASE ALL
:"TIGERCUB SUPERTRACE": :"^
Tigercub Software for free":
"distribution but no price o
rcopying fee may be charged.
" !programmed by Jim Peterso
n  1/88
180 DISPLAY AT(8,1):" Howeve
r, if anyone should feel mo
ved to send me a few bucks f
or the use of this  progra
, I would not be":"offended!
"
190 DISPLAY AT(15,1):"Jim Pe
terson":"156 Collingwood Ave
.":"Columbus, OH 43213"
200 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 200
210 DISPLAY AT(2,1)ERASE ALL
:" Will break each program":
"line into single statement"
:"lines, unless they contain
"
220 DISPLAY AT(5,1):"an IF,
and add a CALL to a":"subpro
gram which will":"display ea
ch line number in":"the corn
er of the screen as"
230 DISPLAY AT(9,1):"it is b
eing executed, or":"will out
put it to a printer."
240 DISPLAY AT(13,1):" Progr
am must first be -": :"RESeq
uenced to greater in-":"crem
ents than the number"
250 DISPLAY AT(17,1):"of sta
tements in any one":"line. (
recommend RES 100,20)": :"an
d SAVEd by":"  SAVE DSK(file
name),MERGE"
270 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 270
310 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,S):: IF S=0 THEN 310 EL
SE CALL CLEAR
320 DISPLAY AT(3,1):"INPUT F
ILENAME?":"DSK" :: ACCEPT AT
(4,4):IF$ :: ON ERROR 330 ::
 OPEN #1:"DSK"&IF$,INPUT ::
GOTO 340
330 CALL SOUND(300,110,0,-4,
0):: DISPLAY AT(6,1):"CANNOT
 OPEN FILE!" :: RETURN 320
340 DISPLAY AT(6,1):"OUTPUT
FILENAME?":"DSK" :: ACCEPT A
T(7,4):OF$ :: ON ERROR 350 :
: OPEN #2:"DSK"&OF$,VARIABLE
 163,OUTPUT :: ON ERROR STOP
 :: GOTO 355
350 CALL SOUND(300,110,0,-4,
0):: DISPLAY AT(9,1):"CANNOT
 OPEN FILE!" :: RETURN 340
355 DISPLAY AT(9,1):" Progra
ms of more than 50":"sectors
 in length may become":"too
```

```
long to run if you break";"a
nd trace all lines."
360 DISPLAY AT(15,1):"Break
all lines? (Y/N)" :: ACCEPT
AT(15,24)SIZE(1)VALIDATE("YN
"):Q$ :: IF Q$="Y" THEN 390
370 DISPLAY AT(17,1):"From l
ine?" :: ACCEPT AT(17,12)VAL
IDATE(DIGIT):FL
380 DISPLAY AT(17,18):"To?"
:: ACCEPT AT(17,22):TL
390 DISPLAY AT(15,1):"TRACE
to 1";"";" (1) Screen";" (2)
 Printer";" (3) Both" :: ACC
EPT AT(15,10)SIZE(-1)VALIDAT
E("123"):QQ :: IF QQ=1 THEN
405
400 DISPLAY AT(21,1):"Printe
r? PIO" :: ACCEPT AT(21,10)S
IZE(-18):PD$
405 DISPLAY AT(3,1)ERASE ALL
:" Key code 1 allows the pro
-":"gram to run until you ho
ld":"down any key. It will b
e"
406 DISPLAY AT(6,1):"difficu
lt to execute CALL":"KEYs in
 the program.";"":" Key code
 2 requires a key":"to be pr
essed to execute"
407 DISPLAY AT(11,1):"each p
rogram line. You can":"step
through the program":"line b
y line, but this may":"be ve
ry slow if all lines"
408 DISPLAY AT(15,1):"are be
ing traced.";"":" Key code 3
 does not allow":"stopping t
he program."
409 DISPLAY AT(20,1):"Key co
de? 1" :: ACCEPT AT(20,11)SI
ZE(-1)VALIDATE("123"):KC410
IF KC=1 THEN KC$=CHR$(191)&C
HR$(192)&CHR$(200)&CHR$(1)&"
0" ELSE KC$=CHR$(191)&CHR$(2
00)&CHR$(1)&"1"
411 DISPLAY AT(12,7)ERASE AL
L:"Working line"
420 LINPUT #1:M$ :: IF M$=EN
D$ THEN 570
430 LN=ASC(SEG$(M$,1,1))*256
+ASC(SEG$(M$,2,1)):: IF Q$="
Y" THEN 440 :: IF LN<FL OR L
N>TL THEN PRINT #2:M$ :: GOT
O 420
440 IF LN>LN2 THEN 460
450 DISPLAY AT(12,1)ERASE AL
L BEEP:"ERROR! RESEQUENCE PR
OGRAM TO":"GREATER INCREMENT
S AND TRY":"AGAIN." :: CLOSE
 #1 :: CLOSE #2 :: STOP
460 LN2=LN :: IF POS(Z$,SEG$
(M$,3,1),1)<>0 THEN PRINT #2
:M$ :: DISPLAY AT(12,19):LN
:: GOTO 420
470 P=POS(M$,S$,3):: T=POS(M
$,CHR$(161),3):: IF T=0 THEN
 500
480 IF P=0 THEN PRINT #2:SEG
$(M$,1,LEN(M$)-1)&S$&C$&CHR$
(LEN(STR$(LN)))&STR$(LN)&K$&
E$ :: DISPLAY AT(12,19):LN :
: GOTO 420
490 PRINT #2:SEG$(M$,1,P)&C$
&CHR$(LEN(STR$(LN)))&STR$(LN
)&K$&E$ :: DISPLAY AT(12,19)
:LN :: LN=LN+1 :: GOSUB 690
:: M$=LN$&SEG$(M$,P+1,255)::
 GOTO 430
500 IF P=0 THEN PRINT #2:SEG
$(M$,1,2)&C$&CHR$(LEN(STR$(L
N)))&STR$(LN)&K$&S$&SEG$(M$,
3,255):: DISPLAY AT(12,19):L
N :: GOTO 420
510 A$=SEG$(M$,1,P-1):: R=PO
S(A$,CHR$(132),3):: S=POS(A$
,CHR$(201),3)
520 IF R=0 THEN GOSUB 750 ::
 GOTO 560
530 IF S=0 AND R<>0 THEN GOS
UB 700 :: GOTO 420
540 IF S<>0 THEN IF S-R<3 TH
EN GOSUB 750 :: GOTO 560
550 GOSUB 700 :: GOTO 420
560 LN=LN+1 :: LN2=LN :: GOS
UB 690 :: M$=LN$&SEG$(M$,P+1
,255):: P=POS(M$,$$,3):: GOT
O 500
570 LN=29999 :: GOSUB 690 ::
 PRINT #2:LN$&CHR$(131)&CHR$
(64)&CHR$(80)&CHR$(43)&CHR$(
0)
580 LN=30000 :: GOSUB 690 ::
 PRINT #2:LN$&CHR$(161)&CHR$
(200)&CHR$(1)&"A"&CHR$(183)&
"X"&K$&E$ :: IF QQ=1 THEN 63
0
590 LN=30001 :: GOSUB 690 ::
 P$=LN$&CHR$(132)&"F"&CHR$(1
90)&CHR$(200)&CHR$(1)&"0"&CH
R$(176)&CHR$(159)&CHR$(253)&
CHR$(200)&CHR$(3)&"250"
600 P$=P$&CHR$(181)&CHR$(199
)&CHR$(LEN(PD$))&PD$&CHR$(13
0)&"F"&CHR$(190)&CHR$(200)&C
HR$(1)&"1"&S$&CHR$(156)&CHR$
(253)&CHR$(200)&CHR$(3)&"250
"&CHR$(181)&CHR$(214)
610 P$=P$&CHR$(183)&CHR$(200
)&CHR$(2)&"27"&K$&CHR$(184)&
CHR$(199)&CHR$(1)&"N"&CHR$(1
84)&CHR$(214)&CHR$(183)&CHR$
(200)&CHR$(1)&"6"&K$&E$ :: P
RINT #2:P$
620 LN=30002 :: GOSUB 690 ::
 PRINT #2:LN$&CHR$(156)&CHR$
(253)&CHR$(200)&CHR$(3)&"250
"&CHR$(181)&"X"&CHR$(180)&E$
630 IF QQ=2 THEN 650
640 LN=30003 :: GOSUB 690 ::
 PRINT #2:LN$&CHR$(162)&CHR$
(240)&CHR$(183)&CHR$(200)&CH
R$(2)&"24"&CHR$(179)&CHR$(20
0)&CHR$(1)&"1"&K$&CHR$(181)&
"X"&CHR$(180)&E$
645 IF KC=3 THEN 670
650 LN=30004 :: GOSUB 690 ::
 P$=LN$&CHR$(157)&CHR$(200)&
CHR$(3)&"KEY"&CHR$(183)&CHR$
(200)&CHR$(1)&"0"&CHR$(179)&
"K"&CHR$(179)&"S"&K$
660 P$=P$&CHR$(130)&CHR$(132
)&"S"&KC$&CHR$(176)&CHR$(201
)&CHR$(INT(LN/256))&CHR$(LN-
256*INT(LN/256))&E$ :: PRINT
 #2:P$
670 LN=30005 :: GOSUB 690 ::
 PRINT #2:LN$&CHR$(168)&CHR$
(0):: PRINT #2:CHR$(255)&CHR
$(255)
680 CLOSE #1 :: CLOSE #2 ::
DISPLAY AT(12,1)ERASE ALL:"E
nter NEW": :"Then Enter":"
MERGE DSK"&OF$ :: END
690 LN$=CHR$(INT(LN/256))&CH
R$(LN-256*INT(LN/256)):: RET
URN
700 IF LEN(M$)>150 THEN 720
:: PRINT #2:SEG$(M$,1,2)&C$&
CHR$(LEN(STR$(LN)))&STR$(LN)
&K$&S$&SEG$(M$,3,255)
710 DISPLAY AT(12,19):LN ::
RETURN
720 PRINT #2:SEG$(M$,1,2)&C$
&CHR$(LEN(STR$(LN+1)))&STR$(
LN+1)&K$&E$
730 DISPLAY AT(12,19):LN
740 LN=LN+1 :: PRINT #2:CHR$
(INT(LN/256))&CHR$(LN-256*IN
T(LN/256))&SEG$(M$,3,255)::
DISPLAY AT(12,19):LN :: LN2=
LN :: RETURN
750 PRINT #2:SEG$(A$,1,2)&C$
&CHR$(LEN(STR$(LN)))&STR$(LN
)&K$&S$&SEG$(A$,3,255)&E$ ::
 DISPLAY AT(12,19):LN :: RET
URN
```

This "tinygram" might give you a surprise. SAVE it before you run it.

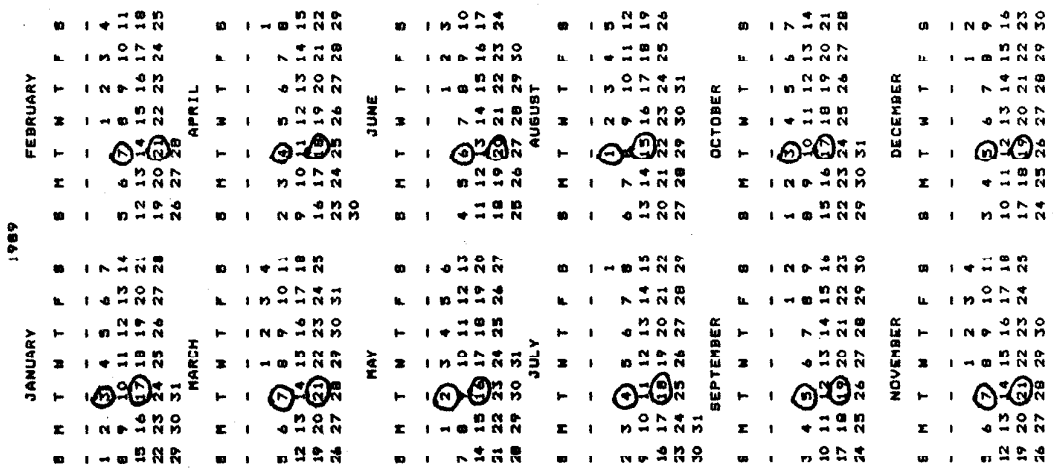
```
100 CALL CLEAR :: CALL KEY(3
,K,S):: ON BREAK NEXT ! by J
im Peterson
110 DIM CH$(26):: FOR J=1 TO
 26 :: CALL CHARPAT(J+64,CH$
(J)):: NEXT J :: FOR J=1 TO
26 :: CALL CHAR(J+64,CH$(27-
J)):: NEXT J
120 DISPLAY AT(3,8):"MZNV ZM
ZOBAVI":"":"GSRH KILTIZN DRO
O ZMZOBAV   BLFI MZNV."
130 INPUT "BLFI MZNV? ":M$ :
: CALL SOUND(200,110,0,-4,0)
:: X=X+1 :: IF X<2 THEN 130
140 DISPLAY AT(12,1):"ZMZOBH
RH - ":"":"VRGSVI BLF XZM'G
HKVOO BLFI LDM MZNV LI MLYLW
B XZM      KILMLFMXV R6."
150 GOTO 150
```

Here's another tinygram that might help you editors who reformat my Tips to wider column widths.

```
100 DISPLAY AT(3,6)ERASE ALL
:"TIGERCUB UNFILLER":"":" To
 remove extra spaces from":"
a TI-Writer text which has":
"been Filled and Adjusted by
"
110 DISPLAY AT(8,1):"the For
matter, prior to":"reformatt
ing.":" It will, however, al
so":"remove paragraph indent
a-":"tions and other intende
d":"spacings."
120 DISPLAY AT(15,1):"Input
file? DSK" :: ACCEPT AT(15,1
6):IF$ :: OPEN #1:"DSK"&IF$,
INPUT
130 DISPLAY AT(17,1):"Output
 file? DSK" :: ACCEPT AT(17,
17):OF$ :: OPEN #2:"DSK"&OF$
140 LINPUT #1:M$
150 X=POS(M$," ",1):: IF X=
0 THEN PRINT #2:M$ :: GOTO 1
70
160 M$=SEG$(M$,1,X)&SEG$(M$,
X+2,255):: GOTO 150
170 IF EOF(1)<>1 THEN 140 ::
 CLOSE #1 :: CLOSE #2
```

MEMORY AMOST FULL....

Jim Peterson



Greater Tampa Bay TI
User Group Newsletter

c/o Paul Wiese
4115 Okara Road
Tampa, Florida 33617

FIRST CLASS MAIL

TO:

FIRST CLASS MAIL