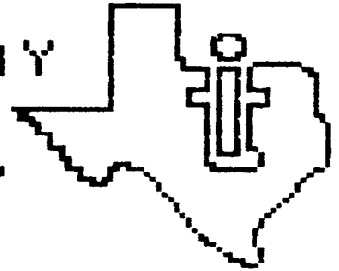




GREATER TAMPA BAY
 TI USER GROUP
 JAN 1989



NEXT MEETING JAN 3rd 89 AT 7:00 PM

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.

**** CLUB DUES ****

Just as a reminder club dues are due before the end of January 1989

Club dues are \$12.00-----Club dues plus BBS fees are \$24.00

Dont forget if you are late, there is a \$10.00 renewal fee.

Officers

President: Charles Kinsey
 687-8407

Vice President: Paul Wiese
 985-1048

Librarian: James McGlone
 837-9387

Secretary: Brenda Burwell
 886-5942

Treasurer: John Hartweg
 686-3429

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)

**** CY² 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.

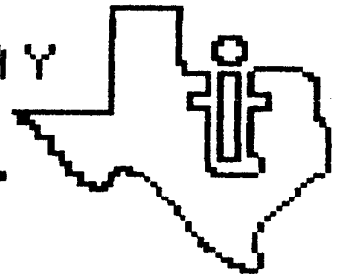
813-725-4568



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TI USER GROUP

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=====

THINKING OUT LOUD

by: Robert E. Barnes

=====

Well gang, the Third Annual TI-Heaven BBS Marathon began and ended with a bang. Fun was had by all and there should be a report in this issue from your SYSOP telling you all about it.

This month I am starting a series of articles by Stan Katzman titled T.I. Writer. The series have 14 parts to them, this should last till July of next year. Remember now, I am putting into this newsletter those things I either find interesting or I think you the reader's will find interesting. If this is not the case with you reader's, it behooves you to speak up and let me know. Otherwise, I will think it is ok with you to continue these articles.

Multiplan part 5 continues with this issue and I hope everyone (at least some of you anyway) is learning something from these series.

There are 3 more articles in my disk from Tiger Cub Tips to follow this issue. Then I will either have to start twisting a few arms and get some help in writing or typing some articles for the newsletter. Think about it and see if you think you could help a little.

=====

PRESIDENTIAL RAMBLINGS

by: Charles N. Kinsey

=====

At the SIG meeting on March 21 the beginners SIG meeting started with a resounding success. Gary Sweers had a very captive audience. In fact, the show and tell, bells and whistles side was kind of lean, so that tells me we are filling a need in the club.

For those of you that get on the club BBS TI-HEAVEN and would like to leave me a message I am going to attempt to

get on the BBS at least once a week. The reason for the limited time is because it is long distance for me. If there is anything that you would like to suggest as to the direction the club is taking or you would like to see a demo or give one please holler.

I finally have some results on my 32/16 MOD. What I did is take a 55 sector D/V 80 file and loaded it into TIW. I started with a left margin of 5 and a right margin of 39 and using the tab command changed the tabs to left margin of 0 and a right margin of 80. Using the reformat command it took 138 seconds to reformat with normal memory and 94 seconds with 32/16 memory. If my calculations are correct that is a 46.8% faster speed. $((138-94)/94) \times 100 = 46.8\%$. I did numerous test of this type and came up with the same percent increase in speed. Therefore in my opinion the claims of the kit from Bud Mills are substantiated. Remember that only programs that utilize memory expansion can benefit from this modifications. That is, cartridge games that use GPL programing only will not benefit from this memory MOD.

What is the ZENOBBOARD? This MOD may create some excitement for some of us. It is a printed circuit board for the TI that adds everthing you always wanted. This board is placed inside the TI and is very simple to construct any combination of the following.

- * 32 static ram
- * Clock with battery back-up
- * X-basic that you can switch on and off
- * Speech synthesizer
- * Supports additional switch selectable GROM
- * Parallel port
- * Includes reset circuit

This beauty fits inside the console above the CPU board and solders directly to the back of the GROM conn., with just a few wires to the

CPU board.

I can hear you thinking now. I do not need all this stuff in my console, I have it all anyway. Well folks, if you are going to tell me that you have never had a lock-up I am going to call you a blatant fibber. Either that are you have never plugged a cartridge in the console. This MOD is supposed to eliminate this problem and if you do nothing with it except put XB on board I think it is worth it. There other ways to put XB inside the console however this is the cleanest.

From what I understand do not order at this time, because the idea is quite attainable, but there may not be enough demand to complete the project. Write/call:

Eric Zeno
414 Highland Rd.
Pittsburgh, PA 15235
(412) 371-4779

(SASE Please!) Anyway, I called Eric and informed him that there may be some interest in our club so let him or myself know. Maybe I can get one up and going to show everybody then we may make this a club project.

If I do not have a chance to say anymore before the deadlineadios.

=====

MEETING RECAPS

by Brenda Burwell

=====

The meeting wasn't called to order at 7:25 pm with 24 in attendance. We jumped headlong into things with a demo of Robert Barnes newest keyboard attached to his KBM interface. This new keyboard has about a trillion function key presets so if you do any programming, about all you need to know is what buttons to push and in what order to come up with a pretty good program.

Charles talked about the Zeno board, a console card which will hold a clock,

XB, speech, memory, a J18 V-8 overhead cam turbocharged engine, along with numerous other nicknacks. Eric Zeno, the proud father of this little ditty, would like to go to prototype, but if he cannot find any interest in the community, the Zeno board cannot become a reality. If you have any interest, let someone know. I believe he needs at least 100 people who are willing to gamble on his ideas in order to proceed.

"Andy" Anderson (I hope I got that name right) was our guest. We have invited him to become a MDT (Member of the Trike). Hope to see much more of him in the future.

Charles and Robert demonstrated a souped up console that Charles is responsible for. One of the components is 32K memory on the 16 bit bus. When we loaded and reformatted a large TI WRITER file "souped-up" vs. "SOP" there was an appreciable difference in time to complete. From what I have been seeing over the country, this mod is a good one, especially in games...but it makes some of them too fast to play. Consider it, the mod that is, for yourself.

The lottery was won, AGAIN, by Bob Lanouette. If you think I'm not gonna get that program and check for his name imbeded in some obscure command, think again!

There was some discussion about the up coming TI HEAVEN MARATHON. By the time you read this, it will be history. Read all about it elsewhere.

To the date of this writing (24APR89), the drives that were ordered by club members have NOT come in, including my two 20MB hard drives. The HFDC did come and has been returned...but that is grist for another mill.

fyc
Brenda

=====

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 floppy disk with a word proccesser 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 UTILI 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 they 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 ternalinal 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.

JIM

=====

HEAVENLY GATES
by: Gary Sweers

=====

The 4th annual (semi-annual?) Ti marathon held by the Greater Tampa Bay Ti Users Group began at 12 noon on April 15th. By the time it ended the next day at noon there would be many tired Ti'ers but I doubt any who have attended will miss the next one. All in all, a wonderful experience not having an equal unless you are doing something illegal, immoral or possibly both!

Those who made it the full 24 hours follow: Herman Nieuwendaal, Brenda Burwell, Robert E. Barnes, Jim McGlone, Tom Austin, Paul Wiese, Gary Sweers, and for all intents and purposes, our President-Charles Kinsey. Those who attended for some portion of time include: Don (BACKCHIPS) Borden, John Hartweg, Bob Lanouette, W. H. Dowdy, Mr. Mrs. Ray Bradley (who provided supper for the 24 hour people)(yellow rice chicken-mmm) and possibly others I cannot remember at this moment.

Including the BBS, there were 7 FULL P-boxes set up for the full 24 hours and there was a hardware center setup for console, hardware, etc.. mods in the garage. Many, Many consoles received some modification, including RESET switches, Pause switches, Load interrupt, and HRD and MRD receiving upgrades in memory or other mods. Robert E. Barnes received the best of the hardware by trading with Charles Kinsey a regular console and uninstalled 32k/16 for Charles fully blown out console with more switches on it than most aircraft. By the time the evening was finished it also included MULTIPLAN and E/A in the grom sockets w/switch for selection. Top that off with the transfer of his

ML/SYSTEMS interface and keyboard and I think all will agree he was the happiest, proudest SUPER 99/4A owner around, justifiably so!

Don Borden wins the "TECHNOKLUTZ" award for meritorious achievement in soldering of 32k ram chips backwards! But let me make this perfectly clear, he did an EXCELLENT job at what he did so for this reason we are bestowing on him the code name of "BACKCHIPS". Make no mention of this as we told Don we would own's the word on this little feat! (GRIN)

Also receiving DISHONORABLE mention is Myarc and Disk Only Software for shipping to Brenda Burwell and OBVIOUSLY well used and hacked on HFDC (Hard and Floppy Disk Controller Card). This card had endured many hours of use and abuse as the area under the heat sinks were VERY, VERY obviously evidence of long previous use. Beside that this card showed other signs of possible repair and abuse, including many solder splatters and otherwise shoddy appearance of what was purported to be BRAND NEW! Needless to say, Brenda sent this back to DOS and we will keep all informed of the saga of Brenda her HFDC!

Much conversation was engaged in regarding cooling down the P-box with a bucking transformer and exchanging of Ti's standard fan with a quieter muffin fan. Any members who are interested in this should talk to "BACKCHIPS", he holds the patent on the newest, most innovative method for this to date! It really is a slick setup the way he does it! Come to a meeting and see it, possibly the club will do it for a project if there is enough interest.

In closing I would like to give a big THANK YOU to Ray Bradley and his wife Eloise for supplying supper for all the marathoners, sure took a BIG load off my wifes shoulders and may encourage another such fiasco. Also, many thanks to those who brought

potluck food and other goodies to share with everyone, it really helped and is much appreciated. To those who didn't better luck next time! All in all just a super event I will not miss if there is any way humanly possible, this group of people truly enjoyed one another and the camaraderie could only be surpassed at a TI FAIRE-if that is possible!

=====

FROM THE PRESIDENT'S DEN

by: Charles N. Kinsey

=====

Here is another old file that some of you may find interesting if you have the load interrupt switch installed in your console or in your speech. Enjoy.....

LOAD INTERRUPT SWITCH+SOME SOFTWARE TO USE IT WITH.

The following is a small compilation of info on the Load Interrupt.

Our beloved 4A runs along doing what it was told to do unless something interrupts it. Pushing a module into the slot will cause a "reset" interrupt. On a reset the computer knows that it must look at a certain area of memory to get a new <M>orkspace <P>ointer and <P>rogram <C>ounter and proceeds to execute from there. Trouble is, these interrupt vectors are in ROM and can't be changed. However, there is an exception to this rule. It is called the "LOAD" interrupt. This causes the computer to look at >FFFC for a new MS and >FFFE for a new PC.

The interrupt is generated by momentarily shorting out ground and pin 13(LOAD) on the I/O port. The way that I did this is with a common doorbell button mounted on my speech synthesizer. Just drill a small hole for the switch and run 2 small wires from it to pin 13 and ground. Pins 21,23,25 and 27 are all ground. You can use any one of them. The odd

numbered pins are on the bottom side of the synthesizer. Be careful-try it. If I can do it, anybody can.

The November 1983 Enthusiast 99 had some of the above and also the test program below.

```

REF VMBW
ST LI 0,302
LI 1,TX
LI 2,4
BLWP @VMBW
LIMI 2
JMP $
TX TEXT 'TEST'
WS BSS 32
AORG >FFFC
DATA WS,ST
END
    
```

Assemble and load into memory then go to the title screen, push the button and test should appear on your screen. Hints:look close! Corcomp disk controller owners will have no trouble finding it.

The following is Compuserve message by Paul Charlton of Fast-Term fame.

```

#: 46939 S5/Tips Tricks
20-Jul-85 18:08:33
Sb: #2 NEAT LOAD INTS!
Fr: Paul Charlton 75136,2256
HERE ARE TWO NEAT LOAD INTERRUPT
ROUTINES.
FIRST CHANGES TE2 CART TO 1200 BAUD
(DON'T HOLD YOUR BREATG THOUGH)
AND SECOND TO CHANGE NAME OF PRINTER
FOR TAX INV. RECORD KEEPING
    
```

```

# LOAD INTERRUPT ROUTINE TO PUT
# TE2 CART INTO 1200 BAUD
#
    
```

```

REGS BSS 32
ENTER CLR @LOADWP
LWPI REGS
CLR RO
E1 DEC RO
JNE E1
LIMI 0
LI R12,>1340
SBO 31
LDCR @CNTRL,8
    
```

XB, speech, memory, a 318 V-8 overhead cam turbocharged engine, along with numerous other nicknacks. Eric Zeno, the proud father of this little ditty, would like to go to prototype, but if he cannot find any interest in the community, the Zeno board cannot become a reality. If you have any interest, let someone know. I believe he needs at least 100 people who are willing to gamble on his ideas in order to proceed.

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```

LDCR @INTVL,8
LDCR @RDR,11
LDCR @XDR,12
SBO 18
E2 STMP RO
MOV RO,@LOADWP
RTWP
CNTRL BYTE >83
INTVL BYTE 1600/64
RDR
XDR DATA >1A1
*
AORG >FFFC
LOADWP DATA REGS
DATA ENTER
END
AND THE NEXT ONE...
*
* LOAD INTERRUPT ROUTINE TO PUT
* A NEW PRINT FILE IN TAX INV.
* RECORD KEEPING
*
REGS BSS 32
NAMLEN BYTE 3 ; CHANGE FOR
; ANOTHER PRINT
; DEVICE
NAME TEXT 'PIO' : * *
EVEN
ENTER CLR @LOADWP
LWPI REGS
CLR RO
E1 DEC RO
JNE E1
*
LIMI 0
LI RO,>05B9
ORI RO,>4000 *FOR WRITE TO VDP
SWPB RO
MOVB RO,@>8C02
SWPB RO
MOVB RO,@>8C02
LI R1,NAMLEN
MOVB #R1,RO
SRL RO,8
LOOP1 MOVB #R1+,@>8C00
DEC RO
JOC LOOP1 'LEN + 1 # BYTES
TO REPEAT
*
STMP RO
MOV RO,@LOADWP
RTWP
*
AORG >FFFC
LOADWP DATA REGS
    
```

```

DATA ENTER
END
OK??? THE 1ST YOU MUST ASSEMBLE THEN
LOD FROM E/A 3. THEN REMOVE E/A CART
(DONT TURN P-BOX OFF) AND INSERT TE2
CART GO INTO TE2 (ALL THE WAY TO THE
BLANK SCREEN WITH CURSOR IN CORNER AND
PRESS YOUR LOAD INTERRUPT BUTTON (E2
TO ADD IF YOU DONT HAVE ONE, ASK!)
TI/RK...SAME PROCEDURE AS ABOVE..BUT
GO ALL THE WAY TO PRINTER (Y/N) ANSWER
YES THEN TYPE RS232 (OR "TP") HIT
ENTER THEN HIT LOAD INT BUTTON....
VO LA! HELPFULLY, PAUL...
Lastly, we have my first Assembly
program.
* <-FOR THE MINI-MEMORY CARTRIDGE-> *
THIS PROGRAM WILL JUMP TO ITSELF WHEN
A LOAD INTERRUPT IS GENERATED * IT
WILL PUT A MENU ON THE SCREEN ALLOWING
YOU TO SELECT EDITOR OR FORMATTER * IT
DOES NOT RESET THE PROGRAM NAMES IN
THE REF/DEF TABLE, BUT BRANCHES *
DIRECTLY TO THE PROGRAM'S START
ADDRESSES. * THE START ADDRESSES FOR
THE EDITOR AND FORMATTER DEPEND ON THE
VERSION * OF TOM KNIGHT'S LOADER THAT
YOU ARE USING. * TO USE: USE A BASIC
PROGRAM TO LOAD THIS AND TOM KNIGHT'S
TI-WRITER LOADER * INTO MEMORY, CALL
LINK("START") AND AWAY YOU GO. AFTER
USING EITHER THE * EDITOR OR FORMATTER
AND YOU WANT TO GO TO THE OTHER ONE,
JUST HIT THE LOAD * INTERRUPT BUTTON.
*
DEF START
REF VSBW,VMBW,KSCAN
AORG >FE06
MSG1 TEXT 'Editor or Formatter'
MSG2 TEXT 'Press E or F'
EDI B @>FB2C *START ADDRESS OF
*EDITOR
FOR B @>FB9A *START ADDRESS OF
*FORMATTER
START LWPI >2000
LI RO,>2000 *WORKSPACE POINT-
*ER/THIS PROGRAM
MOV RO,@>FFFC *WORKSPACE POINT
*ER WHEN LOAD INT BUTTON IS
*PUSHED
LI RO,>FE2E *START ADDRESS
    
```

```

*THIS PROGRAM
MOV RO,@>FFFE *PROGRAM COUNTER
*WHEN LOAD INT BUTTON IS
*PUSHED
JMP CLEAR
DISP LI RO,289
LI R1,MSG1
LI R2,19
BLWP @VMBW
LI RO,324
LI R1,MSG2
LI R2,12
BLWP @VMBW
CURSOR LI RO,337
CLR R9
BLWP @VSBW
LI R1,>3F00
GETKEY SB @8374,8374
BLWP @KSCAN
MOVB @>837C,RO
COC @KEYMSK,RO
JNE CURSOR
MOV @>8374,R9
CI R9,69 E
JEQ EDI EDITOR
CI R9,70 F
JEQ FOR FORMATTER
CLEAR CLR RO
CLR R1
LOOP BLWP @VSBW
CI RO,767
JEQ DISP
INC RO
JMP LOOP
KEYMSK DATA >2000
END
    
```

The program to load the above:

```

100 CALL INIT
110 CALL CLEAR
120 CALL LOAD("DSK1.TKADD")
130 INPUT "HAS TKWRITER BEEN LOADED? ".A#
140 IF A#="Y" THEN 210
150 IF A#="N" THEN 180
160 CALL CLEAR
170 GOTO 130
180 CALL CLEAR
190 PRINT "LOADING TKWRITER":*****
200 CALL LOAD("DSK1.WRITER/EA")
210 CALL LINK("START")
220 END
    
```

A couple of notes on the int button.
DO NOT USE IT WITH THE P-CODE CARD!

Tends to wipe them out, I'm told. Also, the Debugger supplied with the E/A makes use of this button. Comes in handy when you are snooping around in the memory.

Rory Binkerd, Siouxland 99'ers, Sioux Falls, SD.
72157,72

T. I. WRITER (Part 1)
by Stan Katzman

John Willforth asked me if I would write a column on T. I. Writer for the Newsletter. I told him that I did not feel like an expert on the program but I would try. If anyone has any comments please feel free to make them because I can learn from you also.

The best place to start is at the beginning. When I first unpacked T. I. Writer it was quite intimidating, a cartridge, a disk and that BIG manual. It is not as bad as it seems and it really is an easy program to learn to use. One must have the following 1)Consol, 2)32K memory expansion, 3)RS232 card, 4)disk drive (2 disk drives are best but you can do very nicely with one and 5)a printer. (The printer should be Epson compatible).

First make a copy of the program and use the original as a backup. (Very important.)

Place the cartridge in the port and the program in the drive. (I am assuming one disk drive.) Power up the system and get T. I. Writer from the menu using the English version. Next you will see 1.EDITOR 2.FORMATTER 3.UTILITY. We will discuss the Editor first because all writing is done here. Press (1) and the disk will now run putting the Editor program in memory. A line will show across the top with a cursor (you are in Command Mode). The line says "Edit, Tabs, Files, Lines, Search, RecoverEdit, ShowDirectory, Quit". We will now

just discuss Tabs and Edit."

The line starting with "Edit" is called the Command Mode. Let us now set our tabs (and margins). Press "T" and the cursor will move to a numbered line. First hit the space bar and remove the "L", then with the "Fctn D" move the cursor to the 10 space and type "L", then move the cursor with "Fctn D" to 70 and type an "R", press Enter and you are in the editing mode and you can type anything you want with the margins set at 10 and 70. (If you want different margins just enter them as described). You do not have to press the enter key at the end of the line unless you want to start a new paragraph. You are in Word-wrap mode.

If you want to print out your document at this stage just press Fctn 9 and you are back in Command Mode. Now press F (files) and you will see more selections such as LoadF, SaveF, PrintF, DeleteF, Purge or ShowDirectory. At this point type "PF" and you will now see "PRINT FILE, enter devicename:", at this point if you have a parallel printer enter PIO and you document will be printed out as you typed it.

Try using the word processor and reading the instructions. You will find it easy to use. More next time.

MONEY MATTERS

by: John Hartweg

TREASURER'S REPORT
APRIL 1989

Beginning balance	\$1149.95
Income	
Dollar disks	7.00
DONATION	100.00
Lotto receipts	18.00
Library	2.00

	127.00

Disbursed

G. Sweers -	64.80
BBS UPS expenses	
P. Wiese -	100.00
2 disk drives for club	
P. Wiese -	52.00
Postage	
Roll of tickets	5.00
Check printing	8.69

	230.49

Ending balance 1046.46

MULTIPLAN PART 5
by: Audrey Bucher

In this article, we are going to concentrate on the Print Command. One word of caution, be sure you recalculate your spreadsheet before printing. If you are saving the spreadsheet, Multiplan will automatically recalculate if you have made any entries, but this is not true with the Print command. There are four subcommands under Print...Printer, File, Margins and Options. Printer will begin printing if printer is turned on. File is used to print the record to disk. This may then be loaded into TI Writer and edited or included in a document.

The other two subcommands are the ones you will mostly be dealing with. I usually set the Options first. The command line when you select 0 is as follows:

area:R1:255
setup:
formulas Yes (No) r-c nuas: Yes (No)
I usually change the area to print only the rows and columns that my spreadsheet occupies. For instance, R1:16C1:11 in our sample check balance sheet. When the sheet is saved, the changes are saved with it. On some of my spreadsheets that are quite lengthy, I usually only print the bottom four lines that give me totals

at various times during the month and then at the end of the month, I will print the entire sheet to have a copy of the month's activities. Another option to enter in the area section is a Name. This would be used to print only a specific part of your worksheet that you have named. (More about that next month)

In the setup area you will put your printer configuration. Ex. I use PIO here.

The defaults for printing the formulas and row column numbers are both No. However if there is a reason you would like to have them printed, just change these to Y. If you choose to print formulas, the listing will display the actual formulas that appear in each cell, rather than the calculated values of the formulas as it normally would. This feature is useful when you want a record of the logic behind the worksheet. Column widths are doubled when formulas is set to Yes. Next, I usually set the Margins. When choosing M, the command line will be as follows:

left:5 top:6
width:70 print length:54
page length:66

The left margin and top margin are given as number of characters, the print length and page length are given in number of lines. You may change these defaults to anything you like in order to center your printout on the page if you choose. Multiplan will print as many columns across the page as will fit within the margins you set. Any columns left over will be printed on a second page with row and column numbers continued. This method of printing permits you to cut and attach the printed pages to form a worksheet with the same dimensions you set up on the screen. Most of my spreadsheets have at least 15 columns in them and I prefer to print them all on one sheet of paper, so I use condensed print. I use the TIMP Print program by J&B Mathis that allows you to set printer controls from within Multiplan using the external copy command. It is a Fairware program and

is in our library. It has files for many different kinds of printers, select the one that applies to your printer and copy it to your MP disk so it can be accessed. Because I use condensed print, I set my width to 132. Again, I usually adjust my print length and page length to suit the particular spreadsheet that I am working with at the time. Saves the printer from putting a lot of blank lines on the paper if it is a short spread sheet.

Now that you have all the margins and options set, just hit P for print and the printer will start to hum away. If you wish to cancel printing just hit FCTN 4 (Print Cancel). During printing, the Print Cancel key is the only key that is functional and it is only effective while "PRINT on printer" is displayed on the command line. If the printing is cancelled, MP will display the "Printer error" message.

Next month we'll talk about the Name command. Any questions, feel free to call at 881-5244.

=====
THIS 'N THAT
by: Robert E. Barnes
=====

The club recently had several members purchase some new ramdisks. This has lead me to think about some of the things I take for granted concerning the use of these ramdisks and those new owners may know nothing about. One of the things that comes to mind is the use of Multiplan with the ramdisk. Following is how I have been using Multiplan and my ramdisk.

First thing you will have to do is partition a part of your ramdisk for the exclusive use of Multiplan. I have mine partitioned with 312 sectors. Make sure you allow a few extra sectors for data files if you wish to use the ram for data storage also (I use a floppy data disk). Next make sure you name the partitioned disk name TIMP. (I also believe for

you multi-ram owners the disk has to be at CRU1000). Now, copy over the files from your Multiplan floppy to the ram using DSKU or DM1000.

Now you are set up to run Multiplan from your ramdisk. But wait, you must plug in your Multiplan module (don't you wish you had the chips in your console like mine so all you had to do was throw a switch?). To boot Multiplan, you must remember that the JJ Menu (any version) WILL NOT select Multiplan from the menu. What you have to do is... Hold down a shift key and either press your reset button or slide on the ON-OFF switch on your console. This will bring up the TI screen, pressing any key will bring up the Basic and Multiplan choice screen. From here, you select Multiplan and viola the spreadsheet is loaded almost instantly. From here, just do whatever it is you normally do when working with Multiplan.

One other thing I have noticed with my use of Multiplan and the ramdisk. There are times when one of the Multiplan files seems to get trashed and the program will not load a MP datafile. When this happens to me, normally all I have to do is reload the MPINTR program file. This works for me most times, you may have to experiment and see what file is getting trashed whenever it happens (that is, if it does happen to you). Hope this has been of some help to you.

DEADLINE FOR NEWSLETTER CONTRIBUTIONS
The deadline for contributions to the newsletter is the 3rd Wednesday of each month. That's the day after each month's SIG meeting. You can bring your contribution to the meeting on a disk, or you can leave it on TI HEAVEN and leave a message for me.

TIPS FROM THE TIGERCUB

#51

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TIGERCUB SOFTWARE
136 Collingwood Ave.
Columbus, OH 43213

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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.

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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 news letters #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.

I believe this word game is totally different from anything you have ever seen, and very challenging if you don't use the AID key. The first time you run it, pick option 3 to create a file of phrases and give it the file name COMPUTE. This will then become the computer's file, option 1, and you can create as many of your own files as you want. Recommend phrases of several to as many as 20 words - short ones are too difficult.

```
100 DIM M$(20):: DIM D$(20)
110 GOTO 150
120 Q$,K,S,Q,F$,E,FLAG,X,J,X
$,Y$,A,B,M$,DY$,V,A$(1),C$,CH
,CH$,Y,M$(1),L,M,D$(1),F,Z,C,R
,M
130 CALL CHAR :: CALL KEY ::
CALL SOUND :: CALL CLEAR ::
CALL CHARPAT :: CALL COLOR
:: CALL SCREEN :: CALL VCHAR
:: CALL SPRITE :: CALL LOCA
TE :: CALL DELSPRITE
140 !@P-
150 CALL CHAR(94,"3C4299A1A1
99423C"):: DISPLAY AT(2,1)ER
ASE ALL:"TIGERCUB SHUTTLESEA
RCH V.1.1!"":: Tigercub So
ftware for free:"distributi
on but no price"
160 DISPLAY AT(6,1):"or copy
ing fee to be charged":""I
f you should feel moved to":
"send me a few bucks for my"
:"work, I won't be offended!"
"
170 DISPLAY AT(12,1):"Jim Pe
terson":"156 Collingwood Ave
.":"Columbus, OH 43213"
180 DISPLAY AT(16,5):"Instru
ctions? (Y/N) M" :: ACCEPT A
T(16,25)SIZE(-1)VALIDATE("YN
"):Q$ :: IF Q$="N" THEN 260
190 DISPLAY AT(2,1)ERASE ALL
:" The computer will display
a":"phrase or saying concea
led":"within a grid of rando
```

```
m":"letters."
200 DISPLAY AT(6,1):" The wo
rds will be horizon-":"tal,
one word per line and":"on c
onsecutive lines, but":"not
necessarily beginning on"
210 DISPLAY AT(10,1):"the to
p line, and the phrase":"may
'wrap around' from the":"bo
ttom row to the top."
220 DISPLAY AT(13,1):" You c
an find the phrase by":"shut
tling columns of letters":"u
p and down, looking for":"co
nsecutive rows with letter"
230 DISPLAY AT(17,1):"combin
ations that could be":"parts
of words.":" A cheat key is
available,":"if you are rea
lly stuck, but"
240 DISPLAY AT(21,1):"try no
t to use it!"
250 DISPLAY AT(23,8):"PRESS
ANY KEY" :: DISPLAY AT(23,8)
:"press any key" :: CALL KEY
(0,K,B):: IF S=0 THEN 250
260 DISPLAY AT(3,2)ERASE ALL
:"Do you want to - 1":" (
1) Solve a saving from my
file?":" (2) Solve a p
hrase from your file
?"
270 DISPLAY AT(11,2):"(3) Cr
eate a file of":" phrase
s?":" (4) Have someone ty
pe in a phrase to solve
?"
280 ACCEPT AT(3,19)SIZE(-1)V
ALIDATE(DIGIT):Q :: IF Q<1 O
R Q>4 THEN 280
290 ON Q GOTO 300,310,410,47
0
300 F$="1.COMPUTE" :: E=1 ::
GOTO 320
310 DISPLAY AT(18,1):"Filena
me? DSK" :: ACCEPT AT(18,14)
:F$ :: E=2
320 ON ERROR 370
330 IF FLAG=1 THEN 350 :: FL
AG=1 :: OPEN #1:"DSK"&F$,FIX
ED,RELATIVE,INPUT :: ON ERRO
R STOP
340 INPUT #1,REC O:X :: CLOS
E #1 :: FOR J=1 TO X :: X$=X
&CHR$(J):: NEXT J :: Y$=X$
350 RANDOMIZE :: A=INT(RND$*L
EN(Y$)+1):: B=ASC(SEG$(Y$,A
,1)):: Y$=SEG$(Y$,1,A-1)&SEG$
(Y$,A+1,255):: IF LEN(Y$)=0
THEN Y$=Y$
```


1989

JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	3	4	5	6	7	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-
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8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
-	-	-	-	-	-	-	-	-	-	-	-	-	-
1	2	3	4	5	6	7	1	2	3	4	5	6	7
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22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
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8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

1st Tues. = Reg. Meeting
 3rd Tues. = Sig. Meeting

Greater Tampa Bay TI
 User Group Newsletter
 c/o Paul Wiese
 4115 Okara Road
 Tampa, Florida 33617

FIRST CLASS MAIL

TO:

FIRST CLASS MAIL

THINKING OUT LOUD
by: Robert E. Barnes

I hope all went well for you and yours this holiday season and that you are looking forward to the new year.

As we move into 1989, we do so with a new slate of officers (or rather some new officers). They are: Charles Kinsey, President; John Hartweg, Treasurer; and Jim McGlone, Librarian. As I understand it the following agreed to remain in their positions for another year. They are: Paul Wiese, Vice President; Brenda Burwell, Secretary and Robert Barnes, Newsletter Editor.

We extend a welcome to the new officers and wish them well. We thank those that agreed to stay and hope the new year treats them as well or better than the old year. And for those not returning as officers, Tom Austin, Herman Nieuwendaal and Judy Chandler, we thank them for their efforts in making our club one to be proud of, and we look forward to seeing them and receiving their valued input at the meetings in the coming year.

Now, it is up to us, the club members, to support our new officers and help them make 1989 the best year ever for our group. I know they will give their all to make it so.

On another vein, let me remind you that it is time for the yearly club membership dues. Please come to the meeting prepared to support your group and pay your dues. For those of you that cannot attend the meeting, I am sure you can mail your dues to Paul Wiese at the address on the mailing label side of this newsletter. PLEASE SUPPORT YOUR GROUP!

This month will mark the end of the articles by Paul Scheidemann. I hope you have enjoyed them as much as I have. I will continue the Multiplan

series by Audrey Bucher and the Tips From The Tigercub by Jim Peterson and I still have a few months worth of articles by Jim Swedlow left. If you want anything else printed in your newsletter, please tell me or one of the officers so we will know what to put in it. And while I am on the subject of the newsletter... I need a volunteer to replace Judy Chandler and the Reprint Roundtable article. Judy will no longer be working with me on the newsletter and I desperately need help, I cannot do it all by myself. So if you would like to browse thru exchange newsletters and type one or two articles a month for our newsletter, please speak up. Silence on your part might mean the end of the Reprint Roundtable and eventually the shrinking in size of this publication.

HAPPY NEW YEAR

1988 CHICAGO FAIRE
by: Brenda Burwell

I was late leaving home because of a stop at K-mart for a tape recorder so I wouldn't have to try to remember what I encountered or have to take notes to try and explain to you. The lady in front of me had a disagreement with them regarding pricing policies...which lead to a void in her order. I was late getting to the plane because security thought I fit the "terrorist profile" and subsequently went thru my carry-on baggage. I missed my flight.

I got the next one, and there I sat. Trapped like a dog, on this little-bitty airplane...within arms reach of 7 children under the age of 4. You can imagine my relief when the father of the youngest assured his seat-mate "I guarantee you he'll sleep all the way." You can imagine my chagrin when this child cried for 3 hours and 10 minutes of a 3 hr 42 minute flight. His sister, behind me, discovered the flexibility of the tray

table and proceeded to play a CONCERTO FOR TABLE AND FEET on my seat back. ENOUGH ALREADY!!!

When I finally got to the hotel, about 10, the social mixer was in full bloom. There were munchies and a cash bar, and luminaries from all corners of the globe. Three door prizes were given, one of which I won! I guess God figured he owed me one for my horrendous day. (As an aside, the tape recorder I had stopped to buy disappeared!). I left about 11:45pm and they were still at it.

The day of the fair began on a down note. Sometime before dawn, Chicago had a hail storm and it continued to rain ALL DAY LONG. But that didn't deter loyal TI'ers from coming to the biggest Chicago User Group Fair/Convention ever. There were 53 tables run by 32 vendors with everything for the TI/GENEVE that you can imagine...and a great deal more.

I got there at 8:45am and was about 200th to get in. During the next several hours, I met, talked with, and purchased merchandise from many people including:

- CHRIS BOBBITT, CHARLES EARL, JIM PETERSON, PAUL CHARLTON, BUD MILLS, SIEVE MEHR, ROGER MERRITT, TOM FREEMAN, TERRIE MASTERS, WAYNE STITH, J. PETER HODDIE, JOHN BIRDWELL, JACK RILEY, ART BEYERS, IRWIN HOTT MIKE WRIGHT, BARRY TRAVER and his son JOHN CALVIN TRAVER.

I would bet my sox that many other wonderful and talented people were there, but I either did not see them, or in my ignorance did not know who they were. A lot of these people were trying to keep a low profile by not wearing name tags, but since they were known by others, it was sometimes hard not to be recognized.

There were demonstrations to introduce "PRESS", (still not yet complete), "How the TI is used by a blind person", the Horison Ram Disk and P

Gram card, Telco, Batch-it and Texlink. Compuserve was to demonstrate a new outreach program in the TI community, J. Peter introduced several new pieces of software-one of which I won and was presented to me by J. Peter himself (he's so cute), Myrac demonstrated new GENEVE software and the HFDC.

Numerous door prizes were distributed throughout the day, but the granddaddy of the all was a HFDC, and since I was at the presentations table, I can tell you that the awardee was exhilarated.

There were no startling revelations of new things to come, but the mood did not seem to be that the TI is in any immediate danger of dropping off the face of the earth. Everyone seemed to behave as if this is a lifetime thing, one that they did not foresee a discontinuance of.

I would guess-timate the crowd at 500+, but it was a little difficult to say because people were in and out of the main exhibit hall all day. I was there until 5:45pm and people were still there bargaining for that much wanted item at the "fifteen-minutes-before-fair's-end mark.

I didn't attend the dinner afterwards...I was all fagged out, so you will have to read an account of that event elsewhere. I did, however, go to the Milwaukee show in another fair first...a TI FAIR CONVOY. Two vans and two cars jammed to the roof made the trek together. We got there about 9:20 and proceeded to help some of the vendors set up. After they got all squared away, it was shop time. One would think that after seven hours of "fairly" concentrated shopping the day before that I would have been through. NOT SO! I represented myself nicely, thank you.

The Milwaukee show is a smaller, more intimate version of the previous day's event. Many of the same vendors were

there, but there were also local vendors who had not shown their wares in Chicago. Additionally, Milwaukee had a consignment table with many used bargains. They seemed to be doing a brisk business as long as I was there.

This was my first TI fair ever and I had one H_L of a time getting there AND BACK but I wouldn't trade that experience for anything. If you have ever considered it but couldn't make up your mind, do yourself a favor and promise one to yourself soon. There are fairs throughout the country throughout the year so go...and enjoy!

Brenda Burwell

TI BITS Number 13
By Jim Swedlow

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

XMODEM

You may have heard of a transfer protocol called XMODEM and wondered what it is. If you use FAST-TERM or 4A TALK, you probably use it. The following should give you some idea of how it works.

When you communicate with another computer on phone lines thru modems, your data must travel thru the same voice phone lines that we use every day. Some connections are better than others. Most have noticeable static.

Your brain, a computer whose power has never been equaled, can usually distinguish the 'data' (voice) from the 'noise' (static). It is almost impossible for your computer to make this judgement.

In the early days of data transfer, data was simply sent and the receiving computer had to do as good a job as it could to distinguish between data and

noise. In a text, or DV80 file, this was not a major problem. If one character was bad you could easily find the problem and edit it.

With a memory image or Program file, however, one bad byte could render the entire file useless. Although editing is possible, it is very tricky.

In August 1977, Ward Christensen developed an error detection method he called MODEN2. It was also dubbed "Christensen" protocol or XMODEM.

It was very simple. Data is sent in blocks of 128 bytes. XMODEM adds up the values of all the characters in each block and compares that number with a total that is sent by the sending computer. If they don't agree, the receiving computer sends a code to the sending computer and the block is transmitted again.

In 1982, Ward Christensen and Chuck Forsberg released an enhancement called Cyclic Redundancy Checking (CRC). CRC does sequential division on each character in the block resulting in a significant improvement in error detection.

Both protocols continue to be called XMODEM. Although others have been developed, XMODEM is used by all major systems, including Compuserve. (Source: an article in FOGLIGHT)

TI WRITER TIP

Find String (FS) is a powerful tool for finding something in a document. Just hit FCTN 8 and then enter FS. Your TI Writer gives you this prompt:

FIND enter /string/ :

You enter your string and use the slash as limiters. If you want to find the word "John", you would enter /John/. If you wanted to find John only when it is used as the last word in a sentence, you would enter /John./.

program, wouldn't you run it at least once?), then that means that just 1% of the people who have tried it have paid. Now, I doubt that everyone who has tried it is actually using it. And, after all, you're not supposed to pay unless you actually use it. Still, I find it exceedingly unlikely that a mere 1% of the people who tried this program are using it.

All that has been accomplished by this is that I'm fed up with fairware. I very much doubt that I will release fairware again. It seems a financially unsound practice. I can make far more by commercial routes.

MULTIPLAN

by: Audrey Bucher

In this article I'd like to just pass along a few helpful hints I have learned from various sources concerning the use of Multiplan.

When I first purchased my Multiplan package, I dutifully made a back up copy, only to find that it would not run. Chuck at the Computer Bug helped me out on this problem by reminding me that the disk containing the Multiplan files must be named TIMP.

From the Decatur 99er's User Group newsletter, I learned that the time it takes to initialize MP and the response time when it is working with the overlay file is affected by the

location of the files on the disk. You can load the files in the desired order by copying them one at a time to a newly initialized disk named TIMP. The best order seems to be: OVERLAY, MPHLP, MPCHAR, MPDATA, MPINTR, and then MPBASE.

Although two drives are recommended for MP, it is possible to run it with only one drive. Before I purchased my second drive, I found it helpful to eliminate the help file from my working disk, thereby freeing up 158 sectors for a data file. I simply made a new disk for each application of MP that I wanted to use in order to eliminate having to switch disks.

If you do have two disk drives, please note that Multiplan will load automatically from any disk drive. Therefore you may put your MP disk in drive 2 and use drive 1 for your data disk as this is the default in the program. If you choose to use drive 1 for your MP disk, you have two options. You must either use a sector editor to change the defaults or upon entering MP, select the Transfer Options command by pressing T, then the letter O. Advance to the set up field by using control A and designate the data file drive as DSK2. Press enter and you're ready to go. If you prefer to change the default, I suggest you copy the file MPINTR onto a new disk. Load up your favorite sector editor and edit sector 22 which will be the first data sector. Shift into ASCII screen mode and find the

words DSK1. Change this to DSK2 and it will automatically load from drive 2. Note that it will not show up in the Transfer Option as DSK2, just as DSK1 did not show up. While you are in the sector editor, you may want to change the default for your printer to PIO if you have a parallel printer. Simply replace the words RS232 with PIO. The RS232 data after that should be blanked out by using the space bar. Now write the sector back to disk and you are in business.

TI has released some enhancements for the Multiplan disk that speeds it up a little and also gives you auto repeat when moving the cursor around the screen. If you do not have these, I will be glad to furnish them to you.

I like to print out most of my spreadsheets in condensed print and was disappointed there was no way to do this from within MP. I made a small program to initialize the printer and tried to remember to run it first. Then one day I saw an ad in Micropendium for a Fairware Program called TIMP PRINT by J&B Mathis that allowed you to enter print controls from within your spreadsheet. It works great using the xternal copy command. I will be putting a copy of this in our library.

Next month we'll take a look at setting up a template. If you have any hints you'd like to share please send them in.

A Reveal of the MX-1000 Printer
A 1st Impression!
by: Paul E. Scheidemantle

To begin with I think they may have missed an opportunity to give this printer a much more appropriate name such as 'FONT MASTER'. In addition to all the normal draft modes you would expect of any Dot Matrix printer such as pica, elite, condensed, double width, emphasized, double strike, underlining, and overlining; you will find four near letter quality font styles available in each Pica and Elite as well as both italic and proportional printing in any size and style. There are two modes of condensed print, one in pica (17 CPI) and one in elite (20 CPI), (condensed printer users not to worry about the second set messing up your printouts because the 17 cpi is default). And to top off all these great fonts they still have more to offer with double height, double size, quad height, and quad size printing available. With it's printing speed of 144 cps in draft mode and 36 cps in NLQ it's fast enough for most of us home users.

From the front control panel all fonts may be selected (with the exception of

the double and quad size). No more fooling around with dip switches to set a NLQ font. Ofcourse paper feed is there as well as a bit more complicated method of doing a form feed. In addition to these commands from the front keypad you have many others that can be done here, such as setting left and right margins, doing a forward or reverse micro-feed (moves in increments of parts of 216th of an inch), sending the paper to the top of a form, setting the top of a form, clear the buffer, and finally and certainly not last is 'PAPER PARK'. Most of these options you as a printer user will understand, however the 'PAPER PARK' is a new one to me and probably to most of you; with this function you may use single sheet paper without having to remove your tractor feed paper (the paper retracts), and when you're done all you have to do is raise the bail cover and the tractor feed paper reloads for your use! This is all made possible by having the tractor in the rear of the printer, which bye-the-way is easily accessible! Not only is the tractor easy to get to but it is another nice feature in that the loading and unloading of pin feed paper and labels has been made such easier because of it! Here after installing pin feed paper in the rear to load it through

the printer all you need do is raise the bail lever and the paper loads automatically!

Other features that I found of use are the 4K buffer (holds about 2 pages of text if not used for download characters), a front mounted ON/OFF switch, a standard parallel interface (which has been moved to the right side of the printer to free-up the rear of all those cables that get in the way of the paper), use of a cartridge type ribbon (cleaner and easier to install, but more costly to replace), and easy to get to DIP switches under the dust cover. Bye-the-way a dust cover that you can actually tear your paper off on! I found it much more compact and quiet then previous models, though I'm told that noisewise is about the same as the MX-10. Though I must admit that the size and light weight of this printer put me off for awhile. It is built to the same high standard of quality that the rest of the Star Micronics printers are.

To say the least I felt that at a price of \$179.95, this was an exceptional buy! Especially when compared to the prices paid for such quality and features elsewhere.

>>>> Call commands you should know! <<<<

By: Paul E. Scheidemantle

The words can be in the puzzle backward, forward, up, down, & diagonally. Circle them as you find them. This is a tuffie this month but you should still be able to complete this puzzle in 30 minutes.

\$WORD LIST\$

- CALL CHAR
- CALL CHARPAT
- CALL CHARSET
- CALL COINC
- CALL COLOR
- CALL DELSPRITE
- CALL GCHAR
- CALL HCHAR
- CALL INIT
- CALL JOYST
- CALL KEY
- CALL LOAD
- CALL LOCATE
- CALL MAGNIFY
- CALL MOTION
- CALL PATTERN
- CALL SCREEN
- CALL SOUND
- CALL SPRITE
- CALL VCHAR

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G O M L A T J S G W D S T J X I R W N X
Q S B U D Y B F F N D E N E T R R U P G
H Q C H E K W J E S E K H E A A N W Z O
G P Y O H N N E Y T R T S H H O D K P E
O W Y K X C R E A O R R C C I N I X C A
D O Y W G C K C L D A G V T U Q A X R O
I N J M S L O O A H L L O O O E S Y Q O
K K Q L L L C O C L L M S V N P F Q C S
K P L A L L L L A A L L B R R I F N U W
W A C L L L L C C L L C E A N Y I Z R Y
C M A A L A S M A A T T H G L O I A J G
K C C A C X A C C S T C A A C U H X W Z
T E C V H O M T Y A H M Y L R C Y A H B
Z Z L E J J I O P L L C L R L P V Z P L
Y Y R L D N J L L L O A N L F K A Y B H
M W I B I L L A A P C P A H S Q M T R L
Q L P L L A C C T T V C G I I Z G E T Y
I A L A C N C A L L D E L S P R I T E C
O A C S F T R D W F J N W G N K N I E Y
C H P R C A L L S P R I T E M A M W X F

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1989

JANUARY							FEBRUARY						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

MARCH							APRIL						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

MAY							JUNE						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

JULY							AUGUST						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

SEPTEMBER							OCTOBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
8	9	10	11	12	13	14	8	9	10	11	12	13	14
15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

NOVEMBER							DECEMBER						
S	M	T	W	T	F	S	S	M	T	W	T	F	S
1	2	3	4	5	6	7	1	2	3	4	5	6	7
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15	16	17	18	19	20	21	15	16	17	18	19	20	21
22	23	24	25	26	27	28	22	23	24	25	26	27	28
29	30	31					29	30	31				

1st Tues. = Reg. Meeting
 3rd Tues. = Sig. Meeting

Greater Tampa Bay TI
 User Group Newsletter

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