

THE MSP 99 NEWSLETTER

Combined Care Packages

by Ed Neu

After TI went out of the home computer business, they sent us several "care packages" of software. One of the most interesting has been TI-FORTH. I have already spent many more hours than some of the members of this family have wanted with this versatile and powerful language.

Another very useful package they sent us is the disk of "updates" to TI-WRITER and MULTI-PLAN. I know a lot of you have taken advantage of this offering. I have spent a lot of time making copies. I haven't used the MULTI-PLAN updates yet, but I have used the TI-WRITER update.

I like the lower-case type font it uses for the screen display. Others prefer the original font. Although opinions are mixed on this issue, everyone I talked to greatly appreciates the elimination of that awful printer form feed you got every time you used the format option. That was the key problem every software reviewer I have read had to say about TI-WRITER.

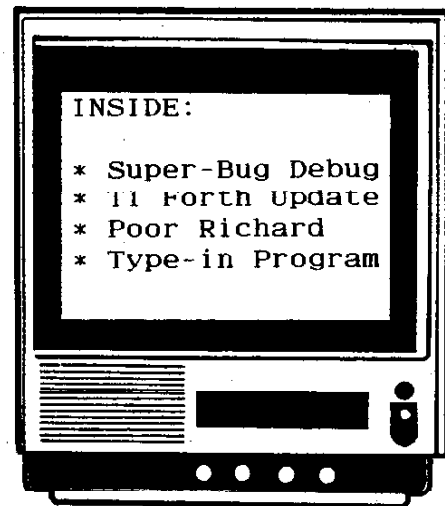
But, alas, even the update has a blemish which limits its utility. It seems the authors of the update assumed everyone owned a serial

Computer Fair Report

by David Wunderlin,
Publicity Chairman.

Our club participated in the COMPUTER FAIR that was held at the Science Museum of Minnesota on Saturday, November 24. The show, sponsored by the Science Museum of Minnesota and the Twin Cities Computer User newspaper, was a big success with an unofficial report of over 800 admissions to the show.

We had the club's two 99/4A consoles set up. One had the club's Peripheral Expansion Box and a second Disk Drive and P-Code Card, supplied by Dan Berkland. The second console had a color monitor, supplied by our club president Joel Gerdeen, and a MBX System, supplied by SPECIALIST IN. This system was used primarily to demonstrate module software. →



The MSP 99 USERS GROUP meets each month for discussions and presentations that enable its members to be better informed about their computers. Users group members share and exchange information. Some members have a broad range of computer expertise; others are just beginning. We are not affiliated with or sponsored by any other group or company. Membership dues are \$12 a year for a family, \$10 for an individual, and \$50 for a sponsor member. You're welcome to visit a meeting before you join. Call or write for more information.

USERS GROUP MEETINGS are held the third Tuesday of each month at 7 p.m. at Dunwoody Industrial Institute, 818 Wayzata Blvd., Minneapolis, MN 55403.

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The MSP 99 NEWSLETTER is published eleven times per year, on a monthly basis except during July, by the MSP 99 Users Group. Members are encouraged to contribute articles for publication. Opinions expressed are those of the writer and not necessarily those of the MSP 99 Users Group, its officers, editor, or members. Materials accepted by the editor for publication in the MSP 99 Newsletter, including software listings, are believed to be in the public domain. Newsletter articles may be reproduced by other users groups if appropriate credit is given to the author (if one is listed) and to the Minneapolis-St. Paul 99 Users Group.

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Clarence Brockman
Marilyn McPartlin

DEADLINE FOR NEXT ISSUE: DEC 17

COMMITTEE VOLUNTEERS

If you want to work on committee (Education, Equipment, Program, Publicity, Software, Newsletter), or have an idea for a program, contact one of the officers.

COMMERCIAL ADVERTISEMENT RATES

Business firms that want to communicate with our members may do so by placing an ad in the newsletter. Rates are: Full Page (7-1/2 X 10-1/2) \$40; Half Page (3-1/2 X 10-1/2) \$30; Quarter Page (3-1/2 X 5) \$22. Each ad must be camera-ready in sizes indicated and paid in advance. Inserts (printed by advertiser on 8-1/2 x 11) may be inserted in the newsletter at \$20 per sheet. Contact the editor for information or to reserve space.

CHANGE OF ADDRESS

Before you move, please mail a change of address to the group at the above address.

(continued from page 1 column 2)

Of the different modules that we had at the show, Baseball for the MBX Voice Recognition System was the most exciting and (I know) the most fun to play. I started playing before the show started at 9:30, and it was well after 10:30 before I knew it. That is one of the problems of having new games around -- you can forget the time. We also demonstrated TI-WRITER, MULTI-PLAN, Editor/Assembler, and Extended BASIC.

I would like to thank the following members for all of their help at manning our display area: George Madline, Dan Berkland, Gary Gese, Al Vitchell, and Steve Stokke. Thanks also to SPECIALIST IN for letting us use the MBX System, Super sketch, and assorted modules. Without all of their help our participation would not have been possible.

Letter

I am having trouble using the LOGO I command module.

I would like to print output to my printer, but the commands only seem to apply to the thermal printer.

If anyone knows how I can print to a parallel printer, please let me know.

Norm Johnson

MSP 99 Calendar of Events

DECEMBER 18 -- Holiday activities and officer nominations
 (Tuesday) \$50 prize drawing for returned questionnaires
 7:00-9:00 PM Vendor presentations
 Bring cookies! (apple cider will be provided)

JANUARY 15 -- Election night -- Be there to vote for your favorite
 (Tuesday) candidate. We may be (just) a users group, but these
 7:00-9:00 PM elections are as important to us as the U.S.
 Presidential election is to the country.

FEBRUARY 19 -- To be announced (as soon as we find out what our new
 (Tuesday) officers have in mind)
 7:00-9:00 PM

Subgroup Meetings

ASSEMBLY LANGUAGE--First Tuesday
 of month, 7:00 p.m., Bryant
 Community Center, Bryant Ave. and
 31st St.

BUSINESS--Second Tuesday, 7-9
 p.m., Norwest Bank, Hopkins. Call
 Bob DeMars (544 6219) or Dick
 Clemetson (926-8083).

EDUCATION--At monthly MSP
 meetings.

YOUTH GROUP--At monthly MSP
 meetings.

AVALON HILL--At monthly MSP
 meetings. Chair: John DiIorio.

Committee Chairs

Education--Marilyn McPartlin,
 636-5663

Equipment--We need someone.

Newsletter--Gary GeSe & Mike
 Kabala 780 8719

Program--Dick Dunbar, 488-0153

Publicity--Dave Wunderlin,
 544-8266

Software--Ed Neu, 425-8744

Another Manual Omission

A TI FORTH Update

By Dave Wunderlin

When experimenting with the SCREEN
 command (it looked simple enough to
 master) I found that every time I
 entered a color number and executed
 it, (sample given in chapter 6 page
 3 of the FORTH manual) the screen
 changed color but all the text I
 may have had on the screen
 disappeared. I could, however,
 still enter commands and have them
 work, but not being able to read
 the screen was a definite handicap.
 Investigating the SCREEN command in
 APPENDIX D, I could not see what I
 was doing wrong. The format (n
 ---) implied that a number then
 the command SCREEN was all I
 needed. Which was exactly what I
 tried.

(continued on page 9)

Poor Richard's Peripheral Roundup

By Dick Dunbar

Where Can I Find ...

One of the questions on everybody's mind these days is "where can I get or find out about (insert name of item)?" In past columns I have talked about specific items, both hardware and software, and I have to some extent mentioned sources for them. This time I'm going to concentrate on where you can find this information for yourself.

By that I mean the periodical publications which carry ads and information useful to owners and users of the TI99 computer, providing most of the leads I use to get my information. This is going to include some opinions and a rather harsh view of the current misdirection of one of the better sources of such information in the past.

Home Computer Magazine

I am talking about the old reliable(?) Home Computer Magazine, formerly 99'er Magazine. In the past, this publication has been one of if not the very best source of information about products that were specifically designed for or were primarily applicable to the TI99. It also had articles and programs specifically aimed at the TI99 user. Last year, I would have unconditionally recommended it for anybody who was looking for TI99 information.

Times change, however. When Texas Instruments decided to drop the TI99, the publisher of HCM seemed to go into some kind of hysterical over-reaction. The December issue was delayed while they shifted gears to cover several different

types of computer rather than just the TI99.

I don't blame them for expanding their horizons, but there was no need for them to panic! TI99 owners and users were not going to disappear overnight, but they seemed to think that they could not publish another single edition devoted to the TI99 alone. As a result, the next edition was several months late, not appearing until late March.

But that wasn't bad enough. As of November, there has been a grand total of four (4) issues sent out in 1984. But the latest move is the strangest. The magazine format has been changed. All the ads have been removed from the magazine! Instead, there is now a separately published, slim volume called the Home Computer Digest.

This pamphlet contains ads and articles, but it goes only to subscribers. It is small, hard to read, and easy to lose. It would have been better to isolate the ads in a separate section in the main magazine, which would have accomplished the publishers goals just as well.

There are still some companies selling peripherals and software for the TI99 who apparently advertise only or mainly in HCM - now in the Digest. But I think we will see that changing in the future. HCM still has the best TI99 coverage as far as articles and programs are concerned, but the ad situation is grim.

HCM costs \$3.50 per issue on the newstand, or you can subscribe for \$25 a year. For 1984, assuming there will be another issue this year, that works out to \$5 per issue. Such a deal, who can pass up?

Home Computer Magazine
P.O. Box 5537
Eugene, OR 97405

Computer Shopper

I can't say enough about this publication. I ran across it quite by accident and fell in love with it almost immediately. This is a tabloid newspaper style publication which is published once a month, and is loaded with ads. All kinds of hardware is advertised in this magazine, and I mean ALL.

Not only are there ads for everything under the sun (new and used), but there are even articles monthly devoted to the TI99. Randy Holcomb writes a monthly article which goes into depth about how various parts of the TI99 work and how you can make use of it. These are really worthwhile articles for the more experienced 99'er or for one who wants to learn the details.

But the main attraction of Computer Shopper is the ads. Many companies selling products for the TI advertise in CS. The bulk of the ads are not for TI products, of course, but as I have pointed out in the past, many peripherals which were not designed for the TI99 can be used with it nonetheless, such as disk drives, printers, modems, monitors, etc. And all of these are advertised in CS, for prices which are among the lowest anywhere.

CS is not as easy to find as some other publications, but it is worth the search. My solution was to subscribe. It costs \$15 a year, compared to the \$1.95 per-issue price on the newstand.

Computer Shopper
407 S. Washington Ave.
P.O.Box F
Titusville, FL 32781

COMPUTE!

This is one of my favorite magazines, not primarily for the

ads, but for the general content and tone. COMPUTE! is not a highly technical magazine, but it doesn't have the somewhat wide-eyed, kid-in-a-candy-store tone which is frequently evident in HCM.

There are articles, reviews, a beginners section, an extensive Readers' Feedback section (which is a sort of combined letters to the editor and question and answer column), and programs you can enter yourself. And they do have programs and information for the TI99.

As far as ads go, for some reason the companies that concentrate on goodies for the TI99 (Tenex, UNISOURCE, Texcomp, etc.) do not or have not in the past advertised in COMPUTE!. However, some of the companies which deal in equipment and software for many brands including TI do advertise here.

COMPUTE! costs \$2.95 per issue on the newstand or \$24 a year to subscribe.

For information:

COMPUTE! Magazine
P.O.Box 5406
Greensboro, NC 27403

For subscriptions:

COMPUTE!
P.O.Box 914
Farmingdale, NY 11737

Family Computing

This magazine has not captured my heart yet, although I find myself buying it almost every month. It does cover the TI99, and for many people this might be an ideal magazine.

It concentrates on educational topics to a certain extent, but not exclusively. There is a short

letters section and a short question and answer section.

There have in recent months been a series of "Buyers Guide to (insert name of item)" articles. Some items covered were disk drives, modems, and printers. The latest one is "Computer Systems", which defines what equipment to consider for three levels of computer system (entry, working, and "dream" systems) for several different brands of computer, none of which was the TI99.

Well, nobody's perfect. The articles are generally good, and there are programs you can enter yourself, too, including versions for the TI99. This magazine covers some of the same ground covered by COMPUTE! but from a slightly different angle. It is definitely worth looking into.

As far as ads are concerned, you will find basically the same type of ad coverage as found in COMPUTE!, but Unisource at least has discovered Family Computing, so there may be hope for some of the other companies concentrating on TI stuff in the future.

Family Computing costs \$2.50 per issue, or \$17.97 a year to subscribe.

For information:

Family Computing
730 Broadway
New York, NY 10003

For subscriptions

Family Computing
P.O.Box 2513
Boulder, CO 80321

BYTE

I can hear it now! "BYTE? I can't hack all that technical baloney. What can I get out of Byte?". For

those of you who have read Byte in the past and come to this conclusion, you might want to take another look.

I subscribed to Byte primarily for the ads. Then I discovered Computer Shopper and had pretty well decided not to renew my Byte subscription. But a subtle change has come over Byte, in my opinion.

In the months following my tentative decision not to renew, the format has changed somewhat. It now seems to me that the highly technical tone has softened quite a bit, making the whole magazine easier to read and enjoy. Don't get me wrong, there are still some very technical articles in there, with do-it-yourself circuit projects and all that, but there is a lot of other stuff, too.

Steve Ciarcia deals with technical projects and questions at various levels, and has even been known to answer a TI99 question at times. Jerry Pournelle deals with various topics from a relatively non-technical user's viewpoint. There are lots of questions and answers covered by both of these regulars, reviews of products and software, etc. (although not for the TI99), and many other features.

And of course, there are the ads. With the exception of suppliers of TI-exclusive stuff, I think EVERYBODY who has any computer-related product advertises in Byte. If it isn't advertised in Byte, it probably doesn't exist. That is an overstatement, of course, but Byte does have the most ads of any slick publication that I know of.

It's probably a toss-up between Byte and Computer Shopper as to which has the most ads. I read them both extensively, and highly recommend them. As you have probably guessed by now, I did renew my subscription to Byte after all.

Byte costs \$3.50 on the newstand, or \$21 for a one-year subscription.

For information:

BYTE Magazine
70 Main St.
Peterborough, NH 03458

For subscriptions:

BYTE Magazine
Subscription Dept.
P.O.Box 590
Martinsville, NJ 08836

Micropendium

Originally known as the Home Computer Compendium, this is a slender (usually about 24 pages) magazine-size newsprint publication which is devoted completely to the "TI99/4A Home Computer and Compatibles" - which is their way of saying that they will cover the CorComp computer if that ever sees the light of day.

This little publication doesn't have much in the way of ads, but those it does have are strictly TI99-oriented goodies. It has news and rumors about what's going on in the TI world, game and software reviews, editorials and a letters column.

It's a nice little newsletter-like publication which sells for \$1.50 a copy, or \$12 for a year's subscription. You can get this one from SPECIALIST IN at the monthly meetings, too.

MICROpendium
P.O.Box 1343
Round Rock, TX 78680

The Smart Programmer

This little gem, a 16-page newsletter which is put out monthly (approximately) by Millers

Graphics, contains lots of hints and tips and inside information, such as detailed memory maps of the TI console and VDP memory.

The "approximately" comment stems from the fact that several issues have been delayed because the author was out working with CorComp helping with the design of the CorComp disk controller. This publication is devoted primarily to the TI99, although it does include a page or so of information about the TI Pro also.

The information in The Smart Programmer is mostly for the person who is more advanced - or who wants to be. There are no ads in this newsletter, but a wealth of other good information: It will set you back \$1.50 per copy, or \$12.50 for a one-year subscription. SPECIALIST IN also carries this one.

MILLERS GRAPHICS
1475 W. Cypress Ave.
San Dimas, CA 91773

End of Data

This is not even close to being an exhaustive list of worthwhile publications, but it does cover the ones I feel are potentially most useful to TI99 users at various levels. But don't rush out and subscribe to these publications solely on the basis of my recommendation. Pick them up from SPECIALIST IN, B. Dalton, Waldenbooks, or your favorite newstand first, and see how they fit you.

With the help of these publications, and/or by checking around with other MSP 99 members, you should be able to locate whatever it is you need to help you make your TI99 work for you. Happy Hunting! MSP99

EUREKA!! I've Found It!

by Ed Neu

At last . . . full screen editing of Extended BASIC programs! Through the efforts of other TI users around the country, I have found a way to use the versatile full-screen editors of either Editor/Assembler or TI-WRITER to create, edit, and change XBASIC programs - and get them to run!

Shortly after I acquired TI-WRITER I discovered that I could "LIST" any program to disk and then edit it using TI-WRITER. That's because the 99/4A lists in a Display Variable 80 format - just what TI-WRITER uses. The problem has been, once the program existed in a DIS/VAR 80 format, there was no way to get it back into a form that XBASIC could run.

Thanks to John Hamilton of the Central Iowa 99/4A Users Group and the coverage given by Fred Hawkins of the Lehigh 99'er Computer Group, I can now go from DIS/VAR 80 files to something that will run.

The program below reads a DIS/VAR 80 format file, ignores lines that don't have line numbers, and converts it into a VAR 163 format. That's the format in which MERGED files in XBASIC exist. In other words, it converts from a TI-WRITER type file into a MERGE file which can be loaded and run in XBASIC.

The key is that it converts all program lines into trailing comments by inserting an "!" as the first character in every line. After the program is MERGED into memory every leading "!" must be removed. While this is a real pain, especially for a long program, it is necessary. This

editing step is the only way to get the XBASIC editor/translator to re-tokenize the line in memory into runnable code.

This inconvenience is tolerable for most jobs because of the tremendous power of TI-WRITER or Editor/Assembler in working with programs. The search and replace capabilities of these editors makes large-scale program modifications a snap.

For instance, I have just revised a couple of library programs which would only run in BASIC so that they will run in XBASIC. This was a matter of using the full-screen editor to find character codes disallowed in XBASIC and doing a global find and replace.

It's also really simple to insert or delete large blocks of code. It may even be easier using this translator than using the "UNMERGE" utility program in our library. Just "LIST" pieces of programs to disk files, translate them to MERGE format, merge them together, remove the leading "!"'s, and you have a new program!

The next item is to find someone who is really clever and has discovered how to get into the XBASIC translator and get it to re-tokenize the lines of code without having to go in and manually remove those "!"'s. Any ideas out there? If so, let me know. In the mean time, I hope some of our members find this as handy as I have.

Listen to COMPUTER LINE

with Ray Douglas

Sundays 9-10 AM

on WWTC AM 1280

Caller Line 871-2608


```

100 !*****
110 ! TRANSLATES FROM
120 ! DIS/VAR 80 TO MERGE
130 ! FORMAT
140 !*****
150 !
160 !USE A FULL SCREEN
170 !EDITOR TO CREATE
180 !EXTENDED BASIC PROGRAMS
190 !
200 !CREATE A FILE USING
210 !TI-WRITER - MAKE
220 !SURE YOU DISABLE THE
230 !WORD WRAP MODE AND
240 !LIMIT THE LENGTH
250 !TO 80 CHARACTERS
260 !
270 CALL CLEAR
280 DISPLAY AT(3,7)BEEP ERAS
E ALL:"**TRANSLATE**"
290 DISPLAY AT(7,5):"DIS/VAR
80 FILENAME:"
300 ACCEPT AT(9,5)SIZE(15):I
N$
310 DISPLAY AT(12,5)BEEP:"ME
RGED OUTPUT FILENAME:"
320 ACCEPT AT(14,5)SIZE(15):
OUT$
330 OPEN #1:IN$
340 OPEN #2:OUT$,VARIABLE 16
3
350 LINPUT #1:L$
360 S=POS(L$," ",1)
370 ON ERROR 490
380 N=VAL(SEG$(L$,1,S))
390 ON ERROR 440
400 A=INT(N/256)
410 A$=CHR$(N-A6):: PRINT L$
420 PRINT #2:CHR$(A);A$;CHR$
(131);SEG$(L$,S+1,80);CHR$(0
)
430 GOTO 350
440 PRINT #2:CHR$(255);CHR$(
255)
450 CLOSE #2
460 PRINT : "ENTER ""NEW""
AND THEN ""MERGE""THE TRANSL
ATED FILENAME:"";OU
T$: : :
470 PRINT "REMEMBER TO REMOV
E THE LEADING ""!"" IN
EVERY LINE." : : :
480 END
490 ON ERROR 440
500 RETURN 350

```

(continued from page 3)

On to SCR 58, line 4 I found the definition : SCREEN (COLOR ---) 7 VWTR ; With SCREEN being the name of the procedure, (COLOR ---) being a comment statement, 7 being another number being added to the stack, VWTR an unknown command at this time, and a semicolon finishes off the procedure.

Now I had to find out what VWTR did. Back to APPENDIX D. On page 64 of the appendix I found my best lead. It stated that VWTR writes the given byte into the specified VDP write-only register. (b n ---) b was my color, n is register 7. Now I knew that VDP meant Video Display Processor leading me to the EDITOR/ASSEMBLER manual. On looking up VDP in the index I found VDP write-only Register was on page 326.

Now on page 328 I found the answer to my problem. Under VDP Register 7 it stated: BITS 0 - 3 are the color code of the foreground color in the TEXT MODE. The FORTH manual on SCREENS makes no mention of the TEXT MODE as being special. BITS 4 - 7 is the color code for the background color in all modes.

To sum up what I found:

When in the TEXT MODE you will need to have a HEX value with two values like "F1". This will set the foreground to white, the background to black. The original sample set the foreground to transparent, therefore I was unable to see what I had on it.

In any other MODE you only need a single hex value as given in the sample in the FORTH manual.

I hope this solves the problem for someone else and you won't end up spending several hours pulling your hair out looking for what you did wrong like I did.

Debugging the SUPER-BUGGER

By Dick Dunbar

As you may know by now if you acquired TI's Super-Bugger from the MSP 99 Program Library, the Super-Bugger has a bug. Perhaps more than one, but for now we'll concentrate on a specific bug.

If you try to assign dump or disassembly output to a disk file, it results in all of the available space on the disk specified being assigned to the file, but no recoverable data is written to it. This is caused by the PAB being destroyed when the file is assigned to disk. There is a solution to this problem. It involves modifying the object program file using the Editor/Assembler. The fix given below applies to uncompressed object files only.

As it happens, Navarone Industries is also distributing a version of this same debugger under the name BUG Fixer, and this version has the same bug. So we will provide the fix for both of these packages at the same time. The data to be changed is the same in both cases, but the address where it occurs differs between the two products.

To make this modification, you will have to enter the Editor and load your object file, then make the changes shown below. To do this, you must find the line containing the specified address (leftmost two columns below) and locate the specific data to be changed. Each line which we are concerned with begins with an "A" followed by a 4-digit hexadecimal address. Each data field starts with a "B" followed by 4 hexadecimal digits of data.

You must find the highest numbered line whose "A" address is equal to or lower than the address to be changed. Then count across the "B" fields in that line (remember to count in hexadecimal, and to count 2 for each "B" field) until you reach the specified address. You can double check that the field contains the specified original value as shown in the third column below. Then change the hexadecimal digits following the "B" to the value shown in the fourth column below.

In some cases, more than one "B" field may need to be changed on the same line. When you have changed all the "B" fields on a line, locate the check field at the end of the line. It will immediately follow the last "B" field on the line, and will contain a "7" followed by 4 hexadecimal digits. Change the "7" to an "8".

When you have made all the indicated changes, save the object file under a DIFFERENT NAME from the original, so that you have a backup in case you made a mistake. Here are the changes to be made:

Location	Original	Change	
SBUG	BFIX	Contents	To
015A	015A	3F20	1020
12DE	12DC	7F00	5000
12F2	12F0	3F09	1009
132A	1328	7F20	5020
1342	1340	7F05	5005
1356	1354	7F00	5000
1366	1364	3F09	1009
137A	1378	7F00	5000
1382	1380	3F09	1009

A version of this correction was published originally in the MICROpendium. This is a modified version with the Navarone Bug Fixer correction added as well.

(continued from front cover)

printer. They made the default printer selection for 1200 baud. Although it is easy to delete this at run time and change it to "PIO.LF" for those of us who use parallel printers, it's a bother.

You can fix this by using "the power of FORTH" - assuming you have it, that is.

All you have to do is load in a couple of screens with the FORTH editor, make two simple changes, "FLUSH" the screens to disk, and you have changed the default printer to PIO.

The specific screens you need to modify will depend on how your copy of the "updates" disk was made. You will have to change either screen numbers 55 and 57 or numbers ~~19~~ and 22. Change the following character strings from the "old" to the "new".

Screen 19 or 55:

Old "RS232.CR.BP+--"
New "PIO.LF"

Screen 22 or 57:

Old "RS232.BA=1200.LF"
New "PIO.LF"

If you have done much work with your FORTH, you probably already realize it can be used to change any byte of any sector of any program or file on your disk. The techniques to do this would be a great topic for a newsletter article. Someone out there should write one.

In the mean time, have fun with TI-WRITER!

Tidbits

*** Beginning with this issue, the MSP 99 newsletter has a new Editorial staff, replacing Bonnie Burton whose outside commitments will prevent her from continuing in her role as Editor. Bonnie has done a great job with the newsletter in the past and I'm happy to say that she is not leaving the group. If you happen to see her at the regular meetings be sure to tell her how much you appreciate her effort.

*** On a sad note Jon Todd (whom I'm sure you all know as Secretary, programmer, and occasional contributor to this newsletter) IS on the other hand leaving our group. Outside commitments are forcing Jon and his family to move out of state, but I'm sure that wherever Jon ends up there will be a local user's group nearby and it won't be long before we'll be seeing new articles with Jon's byline in one of the exchange newsletters. If not, Jon, you can always find a place in print with the good old MSP 99. Goodbye Jon and good luck.

*** Got a question? Write it down, then give it to us. One of the best ways to have your questions answered is in print. No query is too big or small, especially if it is important to you. Since our newsletter goes out to users around the world, there is an awful lot of programming expertise out there to answer any question or solve any problem you may have. So write to us. We'll help.

*** Attention TI LOGO users: MSP member Pat Daly would like you to contact him at 755-7017 to share ideas and discuss the possibility of starting a LOGO special interest sub-group.

Want Ads

Members may place want ads at no charge by calling the newsletter editor, by turning in written copy of the ad at any MSP99 meeting, or by mailing such to the general MSP99 address. Businesses may purchase ad space at the cost of \$1 per line.

FOR SALE Custom carrying case for TI99/4A & all accessories. \$46.95. Bob 926-9432

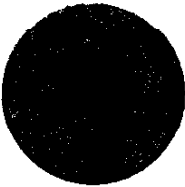
FOR SALE Disks - box of 10 - \$15.00
Cassettes & boxes 10 for \$6.50
TI-WRITER/MULTIPLAN update disk - \$8.00
FORTH source code disks - \$10.00
Advance Assembly Debugger disk - \$8.00
Call Brad Olson, 786-1235 for information or Ed Neu 425-8744

FOR SALE EPSON MX-80 printer brand new condition. Full graphics. \$200.00 or best offer. Bob 894-1924

FOR SALE EXTENDED BASIC \$65 or best offer. Bob 894-1924

WANT/BORROW/RENT TI-COUNT, Y-SCAN, and/or Futura accounting packages for comparison before buying. Call Nelson, 699-0317

FOR SALE Peripheral Expansion Box Complete with Controller, Disk drive, 32K Memory Expansion, RS232 card and Parallel cable \$375 Bob Siede 489-3982 after 6 PM



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