DYNAMIC MEMORIES™

DECEMBER 1983

Merry Christmas ~from Sbug

... and a special thanx to **DYSAN**

SOUTH BAY TRS-80 USERS GROUP

SBUG meetings are held the 3rd Tuesday of each month in the north east corner of Dysan's building at:

                                        5401 Patrick Henry Drive
         Time - 7:15 to 10:30 PM   Santa Clara, Ca

              December 20, January 17, February 21
Topic of the month:

                Open session...

     I haven't been informed about the next meeting;
therefore, I will assume that it will be an open session.
However, our MCs may have a suprise for us!

      MERRY CHRISTMAS FROM ALL THE OFFICERS OF SBUG!!!
           AND HAPPY NEW YEAR ! ! ! !

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MEMBERSHIP

If you would like to become a member of SBUG and start
receiving our newsletter "Dynamic Memories" then send
$18.00 (check) to the following address:

                South Bay TRS-80 User Group
                P.O. Box 60116
                Sunnyvale, Ca 94088

Or, come to one of our meetings. If you also wish to
communicate with our bulletin board system (SBUG-80) then
include an additional $25.00 for an account on the system.
You must be a member of SBUG to have an account on SBUG-80.
Please, include your address and phone number. Thanks ·. . .

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Dynamic Memories was prepared using
MAXPRINT from PEGGYTRONICS

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If the need arises, feel free to give one of us a call.

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THE EDITOR'S LAST BYTE

Well gang, it was fun!!! Last meeting you elected a new editor for Dynamic Memories. Actually, you elected two new editors. Because of Dynamic Memories progress, it was decided that the editor's job is too big for one member. Editor in 1984 will be Joel Lee, and assistant editor will be Charles Ward. I will continue to support Dynamic Memories with an occasional article; and of course, I will continue to be SYSOP on SBUG-80. I will be getting together with our new editors in the next couple of months and help them get started; therefore, members can expect the same (if not better) quality newsletter. After all, two heads are better than one! I spoke to Dave Fox, our cover artist, and Dave said that he would continue to present the cover art for Dynamic Memories. Outstanding job Dave! Well, finals for school are near, and I must get back to my books...so MERRY CHRISTMAS TO ALL, AND A HAPPY NEW YEAR!!!

Rob...

TREASURER'S REPORT

By Larry Gunderson
TREAS @ SBUG-80

I wish to thank the members of SBUG for electing me for another term as treasurer. As my third year in office, I have enjoyed watching and helping SBUG evolve to where it is today. SBUG has enjoyed much growth, not without some growing pains; but that goes with the territory, I guess. I wish to also thank DYSAN for the use of their facility, and Merry Christmas to all!

Now for the bad news. Yes, it's that time of the year for most SBUG members. .....RENEWAL TIME..... The dues are $18 for a year. Please, if you can, mail in your check, payable to: "South Bay TRS-80 Users Group." Use our P.O. Box address when mailing your dues. Thank you.
P.S.: Don't forget, you must be a current member of SBUG to remain a member of SBUG-80!!

As of 10/12/83 SBUG has 241 members and SBUG-80 has 114 members.

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SBUG EQUITY       602.65
SBUG-80 EQUITY    205.00
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TOTAL EQUITY      807.65
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MODEL 100 XMAS GIFT

By BIll Ramsey
BILLRAM @ SBUG-80

My frequent appeals for INPUT from SBUGgers for this column have, at last, yielded excellent results. We are indebted to Frank Vanslager for the material contained in this month's column--a nice Christmas gift for us all! Thanks, Frank.

(1) If the following four lines are installed in your Mod 100 as an IPL program, the machine will automatically turn itself back off unless it is turned on with your special combination of keys already pressed. This may serve to protect a special program from being seen by unauthorized eyes. This lock can be defeated, however, if the BREAK (SHIFT PAUSE) keys are held down while turning on the Mod 100. Note: the purpose of the delay in line 30 is to allow time to release those special keys so that any further action in line 40 is not fouled up by those depressed keys.

10 IF INKEY$ <> CHR$(132) THEN POWEROFF,RESUME (the special

character--a little racing car--is produced by pressing
GRAPH and c together)
20 IF INKEY$ <> CHR$(132) GOTO 10
30 FOR I=1 TO 500:NEXT I
40 CLEAR:REM Put RUN"program" here; or an appropriate
message, action, etc.

After you have entered the above program in BASIC, name and
save it and then type: IPL followed by your program name.
While still in BASIC, turn OFF the Mod 100, then turn it
back on a couple of times and watch what happens. To
provide a key to the lock, turn on the Mod 100 while
holding down your "keys" (the GRAPH key and the other key
of your choice in line 10 above.)

(2) To determine the amount of free string space memory
available, while in BASIC, type PRINT FRE(A$). The (A$) is
any dummy string.   To determine the amount of memory
available in BASIC type PRINT FRE (0). The (0) is also a
dummy variable.   If you have a program which needs to use
as much string space as is currently available, insert the
following line. Note: "n" should be the amount of memory
needed for dynamic overhead for variables, arrays, FOR-NEXT
loops, etc. It can be guessed at, and then refined.

10 CLEAR 0:CLEAR (FRE(0)-n)

(3) To keep people from "bombing" your program by
erroneously pressing the function keys while your program
is running, try the following code. Note: in this example
keys F1-F7 are, in essence, disabled, while the F8 key now
has the effect of BREAKing the program and going to MENU.
(If your program is expecting an input when the F8 key is
pressed, it may be followed by an ENTER.)

10 KEYON: ON KEY GOSUB,,,,,,999
.   (add)
.   (additional)
.   (program statements)
.   (here)
999 MENU: RETURN

Thanks, Frank, for your program suggestions.   Mod 100
users, we need INPUT for this column from YOU. Please send
your comments, hints, suggestions, programs, to: William
Ramsey, P.O. Box 2366, Stanford, CA, 94305 or call
329-9139.

REVIEW of BOOKS on CP/M

By Ron Carpenter
RON @ SBUG-80

Many new books on CP/M-80 have appeared in the last
year, which is surprising considering CP/M has been popular
since 1977 and currently the IBM PC using the MS-DOS
operating system is rapidly exceeding the number of CP/M-80
systems.

The first seven discussed below are the CP/M-related
books, which I have enjoyed enough to purchase, in order of
preference. The others I just examined, thanks to the
extensive stock at the Computer Literacy Bookshop, on 820
Lawrence Expressway, in Sunnyvale, CA. 94086.

CP/M and the Personal Computer by T. Dwyer & M.
Critchfield
publisher: Addison-Wesley $20   1983

Much quality information in 500 large pages make this a
best choice. It adequately touches nearly everything
regarding a computer running CP/M starting from an
introduction, then thru the CP/M commands, on to MBASIC,
BDS C language, WORDSTAR, SUPERCALC, DBASE II, etc., then
into assembly language and BDOS calls, and finally even
modifying the BIOS. (BDOS and BIOS are internal parts of
CP/M.)

System Programming under CP/M-80 by L. Hughes
publisher: Reston $16   1982

This excellent book, in a relatively small 200 pages,
covers all CP/M well enough to serve as your only CP/M
documentation. It also goes into all the details of BDOS
and BIOS calls, plus teaches 8080 assembly language in nine
pages! Even how to write a BIOS is covered, explaining such
detailed things as disk parameter block (DPB), etc.

CP/M Revealed by J. Dennon
publisher: Hayden $14   1982

An interesting text written to be used with hands-on
computer access to do the exercises as you read. It serves
as an introduction to CP/M, plus covers many internals,
using ASM & DDT. Listing of several utilities, which you
could type in and assemble, are discussed in detail, such
as un-ERAse.

The Programmer's CP/M Handbook by A. Johnson-Laird
publisher: Osborne McGraw-Hill $22   1983

This book is for the very advanced 8080 assembler language
programmer. Finally, seven years after the introduction of

CP/M, a book appears specifically on writing and
customizing the BIOS! This book first covers BDOS and BIOS
calls in extreme detail, then it explains how to install
and modify the BIOS. Roughly a hundred pages consisting of
listings of a BIOS and an enhanced, customized BIOS
(available from the author on diskette.) For someone who is
modifying the CP/M operating system, this newly-released
book is essential.

Osborne CP/M User Guide by T. Hogan
publisher: McGraw Hill $15 1981

This is a very good overall book on CP/M, as all Osborne
user guides tend to be. It even mentions languages and
application programs, and has a brief chapter on technical
internals and BDOS calls.

Soul of CP/M by M. Waite & R. Lafore
publisher: Sams $19 1983

This newly published book is loaded with very "meaty"
information on 8080 assembly language calls to the BDOS,
using DDT, file access, and disk directory structure. It
will teach you 8080 machine code as its 400 pages gently
leads you through every detail of assembly language user
access to CP/M. If you want the extreme opposite (in
volume) of a reference card on BDOS calls and 8080 opcodes,
this is it! The last chapter on "innermost soul" covers
only terminal drivers for the BIOS, not disk drivers.

CP/M Assembly Language Programming by K. Barbier
publisher: Prentice Hall $13 1982

It does just a very good job of exactly what the title
says, covering 8080 assembly language and CP/M BDOS calls
using ASM.

Pocket Guide to CP/M by T. Dwyer & M. Critchfield
publisher: Addison Wesley $7   1983

This very worthwhile little book covers everything from
introductory tutorials to full reference info. You get
everything for half the price, plus you can keep it your
pocket all the time!

Inside CP/M by D. Cortesi
publisher: Holt Rinehart Winston $24 1982

Covers not just CP/M but is also a tutorial on computer
fundamentals. Plenty of heavy material. Covers BDOS & BIOS
calls, MAC (but not assembly language per se), MP/M.

Programmer's Guide to CP/M by S. Libes
publisher: Creative Computing $13 1982

This consists of reprints from the first couple of years of

(S100) Microsystems magazine. The first 64 pages contain very useful info on the internals of CP/M, but the rest may not be useful to you since it consists of sections on North Star brand computers, UCSD Pascal, utilities, and CP/M-86.

Mastering CP/M by A. Miller
publisher: Sybex $16   1982

Discusses adding to the BIOS, then the majority of the book consists of MACRO's to be used in subsequent "utility" programs. An explanation of the operation of these utilities is included, in case you find them useful and type them in. Caution: MAC, a separately purchased software package from Digital Research, is needed to use this book!

CP/M primer by S. Murtha & M. Waite
publisher: Sams   (2nd edition) $17   1980

A tiny (90 pages) but very adequate tutorial on using CP/M commands and utilities. For a beginner, I recommend this book.

CP/M Bible by M. Waite & J. Angermeyer
publisher: Sams $20   1983

An extensive reference document to all CP/M commands and utilities. However, the only thing special in this book is an overview of CP/M version 3.0 (CP/M Plus), and a bibliography of CP/M magazine articles.

Introduction to CP/M Assembly Language by J. Lindsay
publisher: Executive Computing $16   1982

Covers the use of BDOS calls using 8080 assembly language. Example programs include a single-drive file copy, random file access, and Tic-Tac-Toe.

A Programmer's Notebook: Utilities for CP/M-80
by D. Cortesi
publisher: Reston $17   1983

Listings of interesting utilities, fully discussed, including dump, pack, tab, directory manipulation, include (source code headers), and macro cross reference. A disk containing the source code is expected to be available.

How to get started with CP/M by C. Townsend
publisher: Dilithium $14   1980

A good, general, simple overview.

CP/M Simplified by J. Weber
publisher: Weber Systems Inc. $14   1981

General information which also mentions BDOS calls and MP/M.

The CP/M handbook with MP/M by R. Zaks
publisher: Sybex $15   1980

An introductory tutorial on CP/M (and MP/M) commands, plus
a chapter on internals.

Using CP/M by J. Fernandez & R. Ashley
publisher: Wiley $15   1980

A "self-teaching" guide where you read a paragraph and then
fill in the answers to questions testing what you just
read. Covers every minute detail of CP/M at the user level,
but NOT in a simplified order.

DiskGuide CP/M by C. Ingraham
publisher: Osborne/McGraw Hill $9   1983

Basically an expensive reference card.

Practical Guide to CP/M (2nd edition)   by C. Townsend
publisher: Dilithium $15   1983

An interesting hodge-podge of tips and technical info on
CP/M.

A User Friendly Guide to CP/M by J. Perry & R. McJunkins
publisher: Reston $15   1983

The first half is another fully adequate introduction to
all CP/M, but the second half contains a substantial amount
of good info on dBASE II!!

CP/M Database Management Systems by C. Townsend
publisher: Dilithium $20   1983

The first few chapters contain an excellent, clear,
comprehensive explanation of DBMS. The remaining chapters
are in-depth reviews of commercial DBMS's including CONDOR,
dBASE II, MDBS, INFOSTAR, FMS-80, etc.

MAGAZINES ON CP/M

S-100 Microsystems (from Creative Computing)
     Mostly technical; plans to cover MS-DOS too.

Lifelines (from Lifeboat, a major software distributor in
NY) User oriented; lists CPMUG public-domain disks too.

CP/M User Guide
     Great tutorials on popular commercial programs.

CP/M Review
     Miscellaneous info.

Dr. Dobbs Journal
    Some CP/M articles, usually for advanced programmers.

Softtalk (for Apple computer users)
    Has a column called Softcard Symposium, which, during
1982-1983, had unique and valuable info on CP/M.

Microcomputing/Interface Age/Kilobaud
    Has had articles on CP/M

Byte
    Has occasional articles on CP/M, especially Jerry
Pournelle's Users' Column.

Data Cast (no longer published, after 5 issues)
    Had great tutorials on popular commercial programs.

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SBUG-80 MAIL CORNER

<Message from MSILLS   at SBUG-80   11/02/83 12:05:52>
RE: Useful Program

Hi All,
    While looking through the November issue of Basic
Computing (80-US), I came across a program called
MATCH/BAS. The program will compare two basic programs and
create a third file in ASCII which contains the
differences. It also enables you to search for and replace
strings.
    This seemed to be a useful program...so I sat down and
keyed it in. The program is on the Board and in INDEX as
MATCH/BAS.   You shouldn't need any documentation but if
necessary it is in the November 1983 issue of Basic
Computing.
    Enjoy....   Mark Sills

<Message from JIBBYTRM at SBUG-80   11/03/83 12:37:35>
RE: Mod 100 text Load function

Hello,
    I have found an interesting command that works in the
text mode.   When you want to load a program from a source,
you have the same capability that you have in basic. In
other words when you use the load command in text mode you
can key in "com:37n1e" or use any of the other load
commands.   This is not discussed at all in the manual.
Try it you'll like it.

<Message from VIGO   at SBUG-80   11/04/83 15:25:44>
RE: BUG IN MACRO80

    Recently I discovered a serious bug in Microsoft
MACRO-80 and wonder if anyone else may have noticed it.

When you use LD   IY,(nn), it   assembles to DD2Annnn instead
of FD2Annnn. This error can cause lots of trouble as you
can imagine. The only way I have found to fix programs
using this command is to correct the object code using
SUPERZAP after assembly. Anyone have a suggestion on how
to fix M80? Mine is the Model III version. Other than
this problem M80 is great. Never use EDTASM any more for
Assembly language programs.   Vigo Smith

<Message from IANWEBB at SBUG-80   11/04/83 15:43:12>
RE: MACRO 80 ERROR(S)

       I didn't know there was a Model III version of Macro
80. When I last checked 18 months ago, it wasn't available.
I have checked my Model I patched version and it makes the
same error AND also does not assemble LD IY,nn properly.
Perhaps the whole set needs to be checked. Do you suppose
there is a look up table that is used and we need to try to
find it and ZAP it?

<Message from EDITOR   at SBUG-80   11/04/83 19:54:41>
RE: MODEL 100 USERS NOTE!!

       Hi all you 100 fans... I have discovered a way to
accomplish 9600 baud transfers with Modem80!! It is
actually very easy... If you wish to transfer programs into
Model 100 BASIC then enter LOAD"COM:88N1E"<cr> and set up
Modem80 in the sequence as before except change the baud
rate to 9600. Once the transfer is complete enter BREAK and
save the file SAVE"FILENAME.BA" to write the file to RAM.
If you wish to transfer into the text editor then press the
LABEL key and enter LOAD followed by COM:88N1E<cr> and
execute Modem80 as before. 9600 baud is GREAT!!!
Unfortunately, the opposite isn't the same. My Model I will
only allow SAVEs from the Model 100 at 2400 baud. Oh
well...   Rob...

<Message from BILLRAM at SBUG-80   11/05/83 11:24:14>
RE: Mod 100 modem bug

       I have been complaining about a bug in my modem for
several months now. After bringing this to the attention
of RS in June, they suggested a new "phone" cable (which
they gave me). I used this successfully for a while, but
again the bug appeared. It allowed the 100 to call, and
when the answering modem connected and generated its tone,
the mod 100 failed to respond with its own tone. Last week
I took my mod 100 in again to complain about the problem
and was told that there is a RS fix for all mod 100s below
a certain serial number (I believe it was 300700000 or
so...) They made the fix and all seems ok now. It is a
three resistor replacement. When I went to pick up the Mod
100 I was charged $15.00 or so until I pointed out that I
had seen the RS memo regarding this bug. The RS manager
wrote N/C on the ticket and wished me well. Don't let the
Shack rip you off if your bug is one which they created!

On the other hand, thanks RS for recognizing and correcting the problem!

<Message from JIBBYTRM at SBUG-80 11/06/83 07:12:13>
RE: Model I CRT problem

Hello Again,
     All of us that own Mod I's may have experienced this problem at some time. My vertical is out on the CRT. Has anyone had this problem and found the <simple> solution to it ??? I have the maintenance manual for it and I probably can find the problem by spending a lot of time checking out the circuit. The manual suggests that it is R254 or the Vertical pot. I want to survey the group before I dive in to the debug phase. Would appreciate the help if any of you have had the problem.
                         Thanks

<Message from JIBBYTRM at SBUG-80 11/06/83 07:20:28>
RE: Model 100 Sort program

Hello Again!!
     For those of you that have keyed in the sort program that is in the Mod 100 manual, a few pointers.
1.) Read the instructions carefully because they don't tell you everything.
2.) Make sure that the characters or numbers you want to sort are within the range you select.
3.) Increase the string space allocation to about 3000
4.) Don't give up on the program. Sometimes it takes a long time for it to sort.
5.) Don't put any more than 2 lines of information for the program to rewrite into the new program because it can't handle it.
6.) I have been using the sort program to list more than 100 different phone numbers and it has taken a long time for me to get the program to work.
7.) If you have any questions on the sort program drop me a line on the board.

                    Love the 100... Bill Jibby

<Message from ROGERAND at SBUG-80 11/06/83 18:26:10>
RE: MOD100 ASSEMBLER

     IN THE LATEST ISSUE OF 80MICRO ON PAGE 240 THERE IS AN AD FOR A MODEL 100 ASSEMBLER
          $22.95
          CUSTOM SOFTWARE
          605 NORTH C, #2
          WELLINGTON, KS 67152
          (316)326-6197
I HAVE NO INFORMATION ABOUT THIS PROGRAM.
     IT ONLY REQUIRES 16K RAM

<Message from STORMY   at SBUG-80 11/09/83 01:00:52>

RE: Epson Form Feed Command

Hope there is an Epson printer driver expert on the board. I tried for the first time to put some assembler code to interface with the Epson printer and it did not work.

The simple task I had was to send a form feed command 12+128=140 is the value needed. The form feed takes place ok. The problem is that a wait for the action to take place — based on the printer again being ready — does not work. The next lines of text are sent out and lost by the printer.

Is it true as I suspect that the printer ready status bit does not apply to the printer advancing to the top of form???

The only alternative seems to be to count each line sent out and line feed the equivalent number of times when a form feed is wanted.

Thanks for considering my problem.

<Message from BARRY   at SBUG-80 11/11/83 08:35:55>
RE: MODEL I EXPANSION INTERFACE WANTED

A friend of mine would like to purchase an Expansion Interface for an ancient Model I. If anyone knows of one for sale, please leave a message for me <BARRY> on the Bulletin Board, or call Anita Wolf at (408) 395-2921 and she will get back to you.

<Message from IANWEBB at SBUG-80 11/11/83 09:19:25>
RE: T A X   W R I T E O F F

I have been helping a non-profit organization in East San Jose which is doing electronics training for South East Asian refugees.

They are teaching assembly, DC & AC, digital and some microprocessor subjects.

They could make good use of a donated computer, both for record keeping and for student training. One with a disk system would be particularly useful.

A donation would be tax deductible.

If you have a system which you would just as soon donate as sell at a very low price, would you contact them?

Reverend Nguyen Van Tinh
ELVOTRIN
Electronic Vocational Training Institution
685 Singleton Rd.
San Jose, CA 95111
(408) 224-8318

Ian Webb

<Message from STAN   at SBUG-80 11/11/83 17:35:27>

RE: MSILLS Question on Mailing List

XTRA Special Delivery is an excellent mailing list program with capability to merge name and address into form letters. There is also a program (CONVERT) which will convert RS Disk Mailing List (26-1551) files to the new format. Should you need any additional info leave a msg on board

<Message from GLENN   at SBUG-80   11/11/83 18:31:54>
RE: STORMY'S PROBLEM

Stormy,
        I tested the MX80 printer and discovered that the following sequences take place when a line feed is sent:
1) During the initial form feed sequence (when the printer seems to hesitate) the printer status is set to busy (on my printer that is a decimal 191 status).
2) When the paper starts to feed smoothly, the status is set to ready (on my printer a 63 decimal).
3) If data continues to be sent to the printer, the status is set to busy as soon as the printer buffer fills.

        The listing below is the basic program I used to test the printer. If you have a model III, change the value of PA to &HF8 and change the peeks to INP and the pokes to OUT. The program loses data at the beginning of each line, but that is intentional as the status is being displayed for test purposes.
                                Glenn
```
10 CLS
20 CLEAR1000
30 PA=&H37E8
40 FORX=33TO127:A$=A$+CHR$(X):NEXT:A$=A$+CHR$(13)
50 PRINTPEEK(PA);
60 POKE(PA),12
70 FORY=1TO10
80 FORX=1TOLEN(A$)
90 A=PEEK(PA)
100 POKE(PA),ASC(MID$(A$,X,1))
110 PRINTA;
120 NEXT
130 NEXT
```

<Message from STORMY   at SBUG-80   11/12/83 00:19:49>
RE: PRINT FIX

        THANKS TO ROGER ANDERSON AND GLENN FOR THEIR HELP. GOT THE FORM FEED TO WORK (OR VERTICAL TAB). 63 OR 03FH IS THE REQUIRED STATUS BEFORE SENDING MORE DAT TO THE PRINTER.
        THAT WAS A GOOD TEST PROGRAM THAT GLENN PUT TOGETHER. ON TO OTHER CHALLENGES.

<Message from IANWEBB at SBUG-80   11/12/83 14:08:42>
RE: MODEL 4   -   TRSDOS 6.1

Anyone have TRSDOS 6.1 with their Model 4?
I understand that 6.0 has been upgraded.

What are the differences?

<Message from CHAMBRLN at SBUG-80 11/13/83 13:18:20>
RE: ERA/BAS Basic Program to KILL multiple files.

        The program will allow you to kill all of the user
files by doing a * command. It will allow selective
killing by using either a ext. where all files with an
extension of   "ext" will be killed, or Filespec/*, where
all files named "Filespec" with any extension are deleted.
It is written in Basic on the Mod. I, but I think it should
run on Mod. III. Documentation is in the code and INDEX.
Use it at your own risk and in good health all my hacker
friends.
                    Con Chamberlain (CHAMBRLN)

<Message from GMCKEE   at SBUG-80   11/15/83 04:52:51>
RE: CARTERFONE MODEM DATA!!!

H E L P
        PLEASE!! PLEASE!! would the gentleman from whom I got
the neat touchtone carterfone modem please stand up (at the
meeting preferably)) and identify himself and give me the
packet of prints/data he promised??
        It was   model hmc-103   rs 232/eot/tty pwr/ddd/twx
tagged. gmckee disk librarian (outgoing)
(408) 926-4063........t h a n k s

<Message from GLENN   at SBUG-80 11/15/83 22:15:04>
RE: pfile/cmd (and doc)

        I uploaded a spooler program that I found on a BBS in
Colorado. It works quite well. The program is in the
indexer and the documentation is on disc also. The program
is PFILE/CMD and the documentation is PFILE/DOC.

South Bay TRS-80 Users Group
P.O. Box 60116
Sunnyvale, Ca 94088