SUBJECT: USE OF AND DISK DATA FILES FOR EDITING BASIC PROCRAMS

You are not limited to using the "indirect file" for merging or otherwise edition BASIC programs on aSD systems. By using the otherwise editins photo programs on now systems. By worm the LIST#(device#).(line spec) command and mamins "6" or "7" as the device#; won can LIST any sub set of program lines from the work stare to a disk data file - in the same manner as you would LIST to the console or to a the indirect file. You can invoke multiple LIST commands from one or more write data to the disk file. Each LIST and PRINT command to device# 6 or 7 will arrend the associated data lines to the data file, as long as the number of tracks assisted to the file will hold the data.

In the reverse direction, who can enter RASIC statements and RASIC commands from a disk data file to the work space by invoking a DISK!" IO "OPENED" on device# 6 or 7 respectively. The DISK!"10 20" compand makes normal console Keyboard. The computer will continue to take its "commands" from the disk device until another DISK!"IB xx" command or an invalid console input device, namely the console Keyboard,

- 1. Establish a disk file senory buffer that will not
- 2. Build an edited set of program lines on a disk data file. 3. Merge the edited data file back into the work space

In the subsequent discussions, devices o will be used as the the disk device for input/output to disk data files. Device# 7 could have been used Just as well.

ESTABLISH A DISK HIFFER

The normal location for the disk second buffer for devices is the betwinning of the PadIC work space. If each of the research that you say want to include in more edition is created and favored with at least one buffer. Newwork there is no meed to work shows what recorns do or do not use disk buffers. If you use a buffer feeting that is located coided of the most second role may be form the edit that the coide of the most person can be included in the edit

Arendix A includes a listing of a groups that sate up a disk memory buffer for devices a localed at the ter of wour usable RAM. By RIMSHIS this groups with ortion "O" at the besinning of an edit session and RUMNIS it with ortion "1" at the end, you can edit to your heart's content without concern for buffer interference.

The following recredings assume that a device# 6 buffer has been established outside of the work space.

BUILD AN EDITED FILE

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The ster bu ster procedure to build a data file of edited program lines for reentry into the work space is as follows:

Step Description Command Syntax

1. Open a data file DISK OPEN-6-"(filename>"
2. Load a program for LISTins DISK:"LO (program name>"

List a sub set of lines to the data file LIST#6 or LIST#6.<line spec>

to the data file Libi#o or Libi#o (line spec)
4. Rerest #3 until all sub sets
for the LDADed file are listed.

5. Rerect #2 thru #4 until all programs involved are programs.

as an "end of file" mark. PRINT#6+".EMD"
7. Assure the disk buffer is

urition to the disk. DISK CLOSE+6

MERGE EDITED DATA FILE INTO THE WORK SPACE

Once the data file contains the program lines that are to replace the "old" program or that are to be mersed with the "old" program, then we are ready to "serse" the file into the work space. The steps to accomplish

Slee Description Command Suntax

I. Load the program to be replaced

2. Open the data file 3. If the grounde is to be replaced,

5. When the entry is complete,

DISK!"LO (program name)" DISK OPEN.6. "<filename"

NEU oc (MIII I) w BTSK1"10 20"

* It is wise to always LOAD the old program even if it is soing to be

replaced by the contests of the edited date file, is order to assure the sare allocation of disk buffers. This procedure is not necessary of course, if the original disk buffer allocation was wrong. In that case, buffers before involved the NEU command.

After all your editing is done, remember to restore the normal devices 6 disk buffer by RURning the progres shown in Appendix A with used by any of your programs. Re-booting the system will also restore the normal buffer assignments.

EDITING EXAMPLES

Once you have mastered the basic mechanics for using ASD disk data files for program editing, the following may be helpful in spiving

BLOCK LINE DELETERS - by Omission

Solution: Consand Sequence

Problem: Delete lines 200-399 DISKIPLD PROG DISK OPEN-4-"SCRDAT"

LIST#6:-199 LIST#6.400-

PRINT#6.", END" DISK CLOSE + 6

DISK OPEN+6+"SERDAT" DIGK OPEN-6-TSCRDAT DISHIPOL 20T DISHIPOL PAGG DISH CLOSE-6-

BLOCK LINE DELETES - by Commission

Problem! Delete lines 200-399

Solution: Command Sequence DISK OPEN-6-"SCROAT FOR I=200TD399:PRINT#6-I:NEXTI:PRINT#6-".FND

ADD COMMON SUBROUTINES TO A NEW PROGRAM

AMPLE COMMAND SEQUENCE:

DISK!"LO SUBLIB":REM GET SUBROUTINE LIBRARY

DISK OPEN+6+"SCRDAT

LIST#6,1000-1999:REM 1ST SUBROUTINE USED LIST#6,4000-4999:REM 2ND SUBROUTINE USED

PRINTOG.".END

DISK CLOSE.6 DISK!"Inah NEUPEC": DEN CET THE NEU HATH PENCEAH

DISK OPEN-6-"SCRDAT DISK: "TO 20":REH HERGE THE SUBROUTINES INTO MAIN PROGRAM

DISK: PUT NEWFRC TREM SAVE THE RESULTS
DISK CLOSE.6

CORRECT A SUSROUTINE USED BY MANY PROGRAMS

EXAMPLE COMMAND SEQUENCE:

DISKI'LD SUBR'IREH GET DEFECTIVE SUBROUTINE

DISK "FUT SUBR" IREM SAVE THE CORRECTED VERSION

LIST&G:REH LIST THE WHOLE SUBROUTINE TO THE DATA FILE PRINT&G:Line number>:REM RECORD ANY DELETED LINES

etc. PRINTeo,".END DISK CLOSE.6

DISK CLOSE.6 DISK!"LOAD HAIR: REM FIX EACH MAIN PROGRAM DISK OPEN.6."SCREAT DISK!ID 200

DISK CLOSE+6

(rereat from LOAD to CLOSE for each affected program)

Note that this lost ensemble tests sight be done succider using the indirect file - once the corrected submodules is Liffed to the indirect file, it resultes only three consenders of effected programs 1, 1058/10. The indirect file is used to the indirect file is used to make a submodule of the indirect file is used on each another reserve to reserve any lines that were delated to correct the submodules. One use is to replace all deleted to file is the file is not to the table force. One could not the file is allowed above.

APPENDIX A

- 2 X=PEEK(9006)+PEEK(9007)#256
- A IF X=14974THENBASE=1292A1S17E=204B160T010 B PRINT PROGRAM ANOMOLY IN LINE 8" IEND
- DO INPUTIBLUICESA SUFFERI DEMOUE IT. IMPESTORE IT'42
- 50 MEH-BASE:COTO300
- 100 MEM=(PEEK(8960)+1 1#256
- 200 MEH-MEH-SIZE
- 400 MEM=MEM+SIZE:I=9000:G0SU81000
- 500 PDKE2888 . 27 : END
- 1000 HI=INT(ME/256):LB =MEM-HI#256 1:00 POKET, LO:POKET+1, HI:RETURN