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| DECUS NO. | 8-926 |
| TITLE | WPFLOP: WPS-8 TO OS/78 FILE CONVERSION UTILITY |
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| COMPANY | LOCKHEED-CALIFORNIA COMPANY BURBANK, CA |
| DATE | DECEMBER 1981 |
| SOURCE LANGUAGE | PAL-8 |

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WPFLOP: WPS-8 to OS/78 File Conversion Utility

Version: December 1981

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Operating System: OS/8, OS/78

Source Language: PAL-8

Other Software Required: WPS-8

Keywords: Conversion, File Conversion, WP/DP Integration, WPS-8

WPFLOP is used to transfer documents from word processing floppy disks to OS/8 media or from OS/8 media to word processing diskettes. The WPS floppy is accessed using the COS compatible floppy handlers which are included in this package.

A WPS-8 Data List (generated by list processing to drop all field names) can be converted to OS78 format to be read as input for a data processing program for running on OS78.

An OS/78 data processing output file record can be coded within the program to contain enclosed field names (<field name>) for conversion to WPS-8 for further list processing.

An OCR captured text file or telecommunicated text file received from a host computer can be converted to OS/78 for imbedding word wrap controls.

OPERATION

WES=20S28

BEFORE USING WPFLOP TO ACCESS A WPS FLOPPY, ONE MUST KNOW THE NUMBER OF THE DOCUMENT WHICH IS TO BE READ FROM THE WPS FLOPPY. FOR EXAMPLE, IN THE SAMPLE INDEX BELOW, THE COLUMN LABELED "DOCUMENT NUMBER" IS THE NUMBER THAT WPFLOP USES TO REFERENCE A DOCUMENT.

-- DOCUMENT INDEX --

DRIVE: 3, NAME: DOC3 , # OF DOCS: 3, BLOCKS LEFT: 621 (OF 627)

| DOCUMENT NUMBER | NAME | CREATED | MODIFIED | SIZE | VERSION | ELAPSED TIME LAST | ELAPSED TIME TOTAL |
|-----------------|---------------------|---------|---------------|------|---------|-------------------|--------------------|
| 3 | FLOPPY INDEX | 12/7/79 | NO/DA/TE | 3 | 1 | 0:00 | 0:00 |
| 2 | WPFLOP USER'S GUIDE | 12/7/79 | 12/7/79 13:09 | 2 | 1 | 0:07 | 0:07 |
| 1 | | 12/3/79 | 12/7/79 13:10 | 1 | 4 | 0:00 | 0:00 |

THE DOCUMENT "WPFLOP USER'S GUIDE" IS DOCUMENT NUMBER 2.

BEFORE RUNNING WPFLOP, THE COS MODE FLOPPY HANDLERS MUST BE INSTALLED IN YOUR OS/8 SYSTEM. SEE THE BUILD CHAPTER IN THE OS/8 SYSTEM REFERENCE MANUAL FOR DETAILS ON USING BUILD. SEE THE DOCUMENT "COSMAN.DC" FOR FURTHER INFORMATION ON THE HANDLERS. THIS DOCUMENT ASSUMES THAT THE HANDLERS HAVE BEEN INSTALLED WITH NAMES OF "RXB0:" FOR DRIVE ZERO, AND "RXB1:" FOR DRIVE ONE.

TO COPY THE DOCUMENT "WPFLOP USER'S GUIDE" TO A FILE ON THE OS/8 SYSTEM DEVICE CALLED WPFLOP.DC, USE THE FOLLOWING COMMANDS:

.R_WPEELOE (USER INPUT UNDERLINED)

WPEELOE.DC<RXB0:2 (ASSUMES WPS FLOPPY IN DRIVE 0. \$=ESC, ALT OR SEL, DEPENDING ON THE TERMINAL.)

IF NO OS/8 OUTPUT FILE IS SPECIFIED, THE PROGRAM ASSUMES THAT THE USER WANTS THE OUTPUT ON THE CONSOLE TERMINAL (TTY:). THEREFORE, TO PRINT THE SAME DOCUMENT ON THE CONSOLE:

.R_WPEELOE

RXB0:2 THE "2" HERE IS THE NUMBER OF THE WPS DOCUMENT WHICH IS TO BE TRANSFERRED.

THE GENERAL WPS->OS/8 COMMAND SYNTAX IS AS FOLLOWS:

```
*[DEV:FILE.EX]<WDEV:DOCN[/S][/S...][\$]
  \      \      \      \      \
  \      \      \      \      \      \__ALT OR ESC TO EXIT WHEN DONE.
  \      \      \      \      \
  \      \      \      \      \__OPTIONAL SWITCHES
  \      \      \      \
  \      \      \      \__WPS DOCUMENT NUMBER
  \      \      \
  \      \      \__NAME FOR THE OS/8 HANDLER FOR THE WPS FLOPPY
  \      \
  \      \__OS/8 OUTPUT FILE SPECIFICATION
  \
  \__OS/8 OUTPUT DEVICE
```

THE ASTERISK (*) IS PRINTED BY THE OS/8 COMMAND DECODER. THE ITEMS ENCLOSED IN BRACES [] ARE OPTIONAL. FOR EXAMPLE, IF NO OS/8 OUTPUT FILE IS SPECIFIED, TTY: IS ASSUMED. IF THE COMMAND LINE ENDS WITH AN ALTMODE, THE PROGRAM RETURNS TO OS/8 WHEN IT IS FINISHED. IF IT DOES NOT, THE PROGRAM RESPONDS WITH ANOTHER "*" AND INPUTS ANOTHER COMMAND STRING.

THERE ARE TWO OPTIONS ACCEPTED WHEN TRANSFERRING FROM WPS TO OS/8. THESE ARE THE VERSION SWITCH (/V) AND THE COMPATIBILITY SWITCH (/C). IF THE VERSION SWITCH IS IN THE COMMAND LINE, WPFLOP PRINTS ITS VERSION NUMBER BEFORE EXECUTING THE COMMAND. IF THE COMPATIBILITY MODE SWITCH IS PRESENT, WPFLOP TRANSFERS THE WPS DOCUMENT IN A FORM COMPATIBLE WITH OS/8 SYSTEM PROGRAMS. IN THIS MODE, UNDERLINES, DEAD KEYS, AND BOLDING ARE IGNORED, BUT TABS ARE CONVERTED TO TABS (ASCII 11). ALSO, THE FILE IS NOT JUSTIFIED. IN NORMAL MODE, THE OUTPUT FILE CONTAINS OVERPRINTING AS NECESSARY TO DUPLICATE THE WPS FILE.

COMPATIBILITY MODE IS USED TO TRANSFER A WPS FILE TO OS/8 IN A FORM THAT CAN BE USED BY, FOR EXAMPLE, OS/8 BASIC. THIS ALLOWS WPS TO BE USED TO ENTER AND EDIT A BASIC PROGRAM. TO DO THIS, CREATE THE FILE UNDER WPS AND TRANSFER IT TO OS/8 USING COMPATIBILITY MODE. IF THERE ARE ANY ERRORS, TRANSFER IT BACK TO WPS, EDIT IT THERE, AND THEN BACK TO OS/8, ETC.

OS/8->WES

TO TRANSFER AN OS/8 FILE TO WPS, USE THE FOLLOWING SYNTAX:

```
*WDEV:<DEV:FILE.EX/0[/S][\$]
```

NOTE THAT THIS IS SIMILAR TO THE ABOVE EXAMPLE. THE MOST IMPORTANT DIFFERENCES ARE THE OUTPUT SWITCH (/O) AND THE FACT THAT NO WPS DOCUMENT NUMBER IS GIVEN IN THE COMMAND LINE. WPFLOP WILL USE THE NEXT AVAILABLE DOCUMENT FOR THE NEW FILE. THE NUMBER THAT WPFLOP USES WILL BE REPORTED AS A MESSAGE OF THE FORM:

"CREATING DOCUMENT NUMBER:N"

WHERE "N" IS THE NUMBER OF THE DOCUMENT CREATED.

THE /O SWITCH IS REQUIRED TO SPECIFY TO WPFLOP THAT THE OUTPUT FILE IS ON THE WPS FLOPPY. WITHOUT THIS SWITCH THE PROGRAM WILL ASSUME THAT THE INPUT FILE IS THE WPS FILE.

THE OTHER SWITCH ALLOWED IS THE /W (WORD-WRAP) SWITCH. IF THIS SWITCH IS SPECIFIED, THE RETURNS IN THE OS/8 FILE WILL BE CONVERTED TO WORD-WRAP RETURNS. IF THERE ARE TWO RETURNS IN A ROW, HARD RETURNS ARE USED. NORMALLY, ALL THE RETURNS IN THE OS/8 FILE ARE CONVERTED TO HARD RETURNS.

THE DOCUMENT CREATED ON THE WPS DEVICE IS NOT TOTALLY COMPATIBLE WITH WPS AS IT IS INITIALLY CREATED. THE MOST OBVIOUS PROBLEM IS THAT TABS ARE OUTPUT AS ONLY ONE SPACE. TO CORRECT THIS, THE WPS EDITOR MUST BE ALLOWED TO SCROLL THRU THE DOCUMENT. THE INITIAL RULER MUST BE CHANGED IN ORDER FOR THE EDITOR TO CORRECT THE DOCUMENT. TO FACILITATE THIS, THE RULER THAT WPFLOP CREATES HAS TABS AT LOCATIONS 8 AND 9. THE FIRST TAB, AT LOCATION 8, IS INCORRECT. IT IS INCLUDED TO BE DELETED IN ORDER FOR THE WPS EDITOR TO RE-TABULATE THE DOCUMENT. THEREFORE, THE CORRECTION SEQUENCE IS:

- 1.CREATE THE WPS DOCUMENT FROM OS/8
- 2.CALL THE WPS EDITOR TO CORRECT THE DOCUMENT
- 3.AT THE TOP OF THE DOCUMENT, TYPE GOLD RULER.
- 4.SPACE TO COLUMN 8 WITH ADVANCE WORD.
- 5.TYPE THE SPACE BAR. THE FIRST OF THE ADJACENT T'S WILL DISAPPEAR.
- 6.TYPE RETURN TO EMBED THE NEW RULER.
- 7.TYPE GOLD ADVANCE TO SCROLL THRU THE DOCUMENT AND CORRECT IT.
- 8.TYPE GOLD FILE TO RE-FILE THE CORRECTED DOCUMENT.

RESTRICTIONS

THE RULER CREATED FOR THE WPS DOCUMENT HAS A RAGGED RULER WITH A WIDTH OF 80 COLUMNS AND TABS EVERY EIGHT COLUMNS. THIS IS THE ONLY RULER THAT CAN BE CREATED. HOWEVER, YOU CAN CHANGE THE RULER UNDER WPS AFTER THE CONVERSION.

THE WPS TO OS/8 CODE DOES NOT SUPPORT BOLDED DEAD KEYS. THE DEAD KEY SEQUENCE PRINTS PROPERLY, BUT THE SEQUENCE IS NOT BOLDED.

THE DOCUMENT CREATED ON THE WPS DEVICE DOES NOT HAVE AN INDEX ENTRY. IT WILL SHOW UP IN THE INDEX AS JUST THE DOCUMENT NUMBER. TO GIVE THE FILE A NAME, EDIT THE INDEX DOCUMENT, (DOCUMENT 1) TO INCLUDE AN ENTRY FOR THE DOCUMENT. FOR EXAMPLE, IF YOU CREATED DOCUMENT 4, AND WANT IT TO BE CALLED "FOOBAR", INCLUDE THE FOLLOWING LINE IN THE INDEX:

```
<N>FOOBAR <#>4<>
```

THE FORM USED IS:

```
<N>NAME SPACE <#>DOC#<>
```

THE N IN THE <> MUST BE LOWER CASE, AND THE NAME MUST END WITH A SPACE.

IF YOU BUILT A SYSTEM DEVICE, TYPE "RUN RXA1 RXFIX" TO CORRECT THE NEW FLOPPY'S BOOT BLOCK.

OS/78

TO INSTALL THE HANDLERS INTO OS/78, ONE MUST ONLY TYPE A FEW COMMANDS. FIRST, LIST THE HANDLERS IN THE SYSTEM:
.SET HANDLER/L

THIS WILL LIST THE HANDLERS IN THE CURRENT SYSTEM. ONE OF THESE MUST BE DELETED IN ORDER TO MAKE ROOM. FOR INSTANCE, THE RL1 HANDLER CAN BE DELETED IF YOU DO NOT HAVE A RL01.

COPY THE FILE "RXB.HN" TO THE OS/78 SYSTEM DEVICE. THEN, ASSUMING THAT YOU ARE REPLACING THE RL1 HANDLER, INSTALL IT WITH THE COMMAND

.SET HANDLER RL1<RXB

THIS COMPLETES THE INSTALLATION. THE HANDLER CAN BE USED WITH THE NAMES "RXB0" FOR DRIVE 0, AND "RXB1" FOR DRIVE 1.

COS TO OS/8 CONVERSION

THE HANDLERS CAN BE USED, ALONG WITH THE COS-310 FILEX PROGRAM, TO CONVERT COS-310 FILES TO OS/8 OR OS/78 FILES. ALSO, OS/8 - OS/78 FILES CAN BE CONVERTED TO COS-310 FILES.

TO CONVERT A COS FILE TO AN OS/8 FILE, USE FILEX, SPECIFYING OS/8 ASCII OUTPUT (OPTION A). OUTPUT THE FILE TO RX DRIVE 0. THEN, BOOT THE OS/8 OR OS/78 SYSTEM, PLACE THE COS DISK IN DRIVE ONE, AND COPY THE FILE. FOR EXAMPLE, IF THE OUTPUT WAS SPECIFIED (TO FILEX) AS "FILE.TX", TYPE THE COMMAND:

.PUNCH SYS:FILE.TX<RXB1:FILE.TX

THIS COPIES THE FILE TO DRIVE ZERO, AND COMPRESSES IT.

TO CONVERT FROM AN OS/8 FILE TO A COS-310 FILE, FIRST COPY IT TO A COS SYSTEM DISKETTE, IN DRIVE ONE.

.COPY RXB1:<SYS:NAME

THEN, RUN THE COS FILEX PROGRAM, SPECIFYING OS/8 ASCII INPUT, AND READING THE FILE FROM DRIVE ZERO.

FURTHER INFORMATION ON FILEX IS GIVEN IN THE COS-310 SYSTEM REFERENCE MANUAL.

FLOPPY HANDLER INSTALLATION INFORMATION

THIS DOCUMENT EXPLAINS HOW TO USE THE BYTE MODE FLOPPY HANDLERS WITH THE OS/78 AND OS/8 OPERATING SYSTEMS. IT ALSO EXPLAINS HOW THE HANDLERS ARE USED TO TRANSFER FILES FROM OS/8 OR OS/78 TO COS/310.

INSTALLATION

OS/8

THE OS/8 BUILD PROGRAM IS USED TO INSTALL THE BYTE MODE HANDLERS IN THE OS/8 SYSTEM. THIS REQUIRES THE FILE "RXBNS.BN" TO INSTALL THE NON-SYSTEM HANDLER, AND THE FILE "RXBSY.BN" TO INSTALL THE NON-SYSTEM HANDLER. THE FILE "RXFIX.SV" MUST ALSO BE PRESENT ON THE SYSTEM DEVICE.

TO BUILD A SYSTEM FLOPPY, BOOT A NORMAL OS/8 SYSTEM FLOPPY IN RX DRIVE ONE. PLACE A BLANK FLOPPY IN DRIVE ZERO.

START BY RUNNING THE OS/8 BUILD PROGRAM.

.SET SYS NO INIT

THIS INSURES THAT THE SYSTEM WILL NOT AUTOMATICALLY START A PROGRAM AFTER BEING BUILT.

.RUN SYS BUILD

RUN THE BUILDER.
PRINT THE HANDLER TABLES

\$PRINT

RXSY: *SYS
RX02: *RXA0 *RXA1
KLBE: *TTY

\$LOAD RXBSY

LOAD THE TWO HANDLERS

\$LOAD RXBNS

\$PRINT

CHECK THE LOAD.

RXSY: *SYS
RX02: *RXA0 *RXA1
KLBE: *TTY

RX8: RXB0 RXB1
BYTE: SYS RXB0 RXB1

THEN, TO INSTALL THE NON-SYSTEM HANDLER:

\$INSERT RX8,RXB0-1

IF YOU WANT TO CREATE A BYTE-MODE SYSTEM:

\$DELETE SYS

\$INSERT BYTE,SYS,RXB0-1

DON'T INSERT THE RXB0 OR RXB1 FROM THE RX8 SET IF YOU WANT TO CREATE A BYTE-MODE SYSTEM. USE THE CO-RESIDENT FILES THAT ARE PART OF THE BYTE HANDLER.

NOW, FINISH THE RE-BUILD.

\$BOOT

IF YOU DID NOT TRY TO BUILD A SYSTEM DEVICE, THE RESPONSE WILL BE:
SYS BUILT

IF YOU BUILT THE SYSTEM, THE PROGRAM WILL ASK:
WRITE ZERO DIRECT?

RESPOND Y. THIS WILL WRITE A NEW DIRECTORY ON THE NEW SYSTEM FLOPPY, IN THE LEFT DRIVE.

WHEN THE SYSTEM RESPONDS WITH "SYS BUILT", TYPE "SAVE SYS BUILD" TO SAVE THE NEW VERSION OF BUILD.

