DOCUMENT TRANSMITTAL

Product Specifications

SYSTEM B1800/B1700

CONTROL DOC. *None*

PL FILE NO. _____

PROJ. NO. _____ COORD. _____ CHKR. *J Hale* TO RECORDS *8-1-78* DISTRIBUTION *8-1-78*

DOC PFX	DOCUMENT NUMBER	REV	UNIT NUMBER	DL NO.	PL FILE NO.	ENG. RECORDS ONLY						REMARKS
						QTY REV PAGE	COPIES EACH PAGE	SEPIAS	MT REQ'D	CD DK REQ'D		
PS	2212 5496	D				10	68					

DOCUMENT TRANSMITTAL

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
A	2/6/76	*Hale*	Original issue.
B	8/3/76	*Hale*	1-1 Added file by file information. Updated Related Documentation. 2-1 Renumbered Operating Instructions as 2-1. Added file by file copy message. Added verification message. Changed <MX> to <mix-index>. 2-2 Updated example. 3-1 Renumbered Error Messages as 3-1. Added Y and N to INVALID RESPONSE message explanation. Added file by file copy condition to messages 6 and 7. Added extended result descriptor error to message 8. 3-2 Added error messages 12-17. Updated for VI.0 release.
C	12/6/77	*Hale*	Updated to Software Release Level Mark 7.0. <mix-index> changed to <job-number> throughout. 3-2: Added the following message and an explanation. WARNING - <file-identifier> IS NOT AN IAD FILE
D	7/28/78	*Hale*	MARK 8.0 RELEASE LEVEL 2-1 "without verification" and "and verify, if desired" deleted from YES response to IS FILE BY FILE COPY DESIRED?

BURROUGHS CORPORATION
COMPUTER SYSTEM GROUP
SANTA BARBARA PLANT

TABLE OF CONTENTS

GENERAL

The SYSTEM/DISK.DUMP program has the ability to copy cartridges
or packs to cartridges or packs with the same or larger capacity.
SYSTEM/DISK.DUMP runs under the control of MCPII.   A dump is not
allowed if the input or output disk is in use at the time, which
includes the system disk where the MCP is running.   If the dump
is a segment-by-segment copy of the cartridge or pack, then when
an error condition is detected while attempting to read or write,
appropriate retries are made.   If the retry cannot be made
successfully, then the copy between the two drives is terminated.

The pack label is checked for validity, but is not copied.
However, if the input disk is a user disk or has a bad label, an
option exists to copy it in a file-by-file manner.   The output
disk copied in this manner always is designated a user disk.   If
an irrecoverable error occurs in the data area of a file, the
data is copied as read with an error message denoting the
absolute sector address in error.   If an irrecoverable error
occurs in the disk directory or file header, the file is not
copied.

RELATED DOCUMENTATION

Name	Number
B1800/B1700 Software Operational Guide	1068731
B1800/B1700 MCPII	P. S. 2212 5462

OPERATING INSTRUCTIONS

Execute SYSTEM/DISK.DUMP from the console printer.   After successful execution the following message is displayed:

SYSTEM/DISK.DUMP = <job-number> ENTER INPUT DRIVE-<DC? OR DP?>

If the input drive is either a user disk or the label is bad, the following message is displayed:

SYSTEM/DISK.DUMP = <job-number> IS FILE BY FILE COPY DESIRED?
                   <YES OR NO>

A "YES" response copies the disk in a file by file manner.   A "NO" response copies the disk segment for segment.

A valid response produces the message:

SYSTEM/DISK.DUMP = <job-number> ENTER OUTPUT DRIVE-<DC? OR DP?>

A correct answer generates the next message:

SYSTEM/DISK.DUMP = <job-number> IS VERIFICATION REQUIRED?
                   <YES OR NO>

A valid response starts the COPY. If after a segment for segment copy is completed and if VERIFICATION has been requested, the COMPARE phase starts with the message:

SYSTEM/DISK.DUMP = <job-number> VERIFICATION BEGINS

After the completion of the COPY or COPY/COMPARE, without errors, the SPO displays the messages:

SYSTEM/DISK.DUMP = <job-number> DUMP COMPLETE <input drive>
                   <serial number> TO <output drive><serial
                   number>

SYSTEM/DISK.DUMP = <job-number> ENTER INPUT DRIVE-<DC? OR DP?>

A blank entered at this time terminates SYSTEM/DISK.DUMP.

BURROUGHS CORPORATION
COMPUTER SYSTEM GROUP
SANTA BARBARA PLANT

COMPANY CONFIDENTIAL
B1800/B1700 SYSTEM/DISK.DUMP
P. S. 2212 5496 (D)

Example

```
MSG: SYSTEM/DISK.DUMP = <job-number> ENTER INPUT DRIVE-
     <DC? OR DP?>
RSP: <job-number> AX DCC
MSG: SYSTEM/DISK.DUMP = <job-number> IS FILE BY FILE COPY
     DESIRED? <YES OR NO>
RSP: <job-number> AX NO
MSG: SYSTEM/DISK.DUMP = <job-number> ENTER OUTPUT DRIVE-
     <DC? OR DP?>
RSP: <job-number> AX DPB
MSG: SYSTEM/DISK.DUMP = <job-number> IS VERIFICATION REQUIRED?
     <YES OR NO>
RSP: <job-number> AX YES
MSG: SYSTEM/DISK.DUMP = <job-number> VERIFICATION BEGINS
MSG: SYSTEM/DISK.DUMP = <job-number> DUMP COMPLETE DCC 125855
     TO DPB 136377
MSG: SYSTEM/DISK.DUMP = <job-number> ENTER INPUT DRIVE-<DC? OR DP?>
RSP: <job-number> AX
```

This example copies DCC to DPB and readies both drives when complete.

ERROR MESSAGES

1. DISK ERROR - RESULT = <result status>

2. INVALID RESPONSE - TRY AGAIN

    You responded with other than Y, N, or <CC? or DP?> or the
    drive you asked for is not available.

3. TEMP TABLE FILLED - <input drive>

    CLEAR/STARTING input drive will fix this problem.

4. DISK NOT READY

5. WRITE LOCKOUT

6. REMOVED SECTORS ON <drive>

    Copying a cartridge or pack with bad sectors terminates the
    dump unless a file by file copy is desired.

7. PACK LABEL BAD <drive>

    Input   drive: copy is not allowed between the two drives
    unless a file by file copy is desired.

    Output drive: initialize this disk before copying.

8. I/O ERROR - <drive>

    Parity, timeout, address parity, extended result descriptor
    error   or   address   error has occurred and retries failed to
    correct problem.   Input error retried 5 times, output error
    retried 5 times rewritten and then re-read 5 more times.

9. RESULT = <result status>

    Follows message number 8 to show what the error was.

10. IS RETRY DESIRED? <YES OR NO>

    Follows message number 1, a YES retries the same operation
    over again and a NO terminates the dump at that point.)

11. ENTER DESIRED NUMBER OF RETRIES

    Accepting a blank or zero terminates the dump at that point.

12. <multi-file-id> <file-id> IS A MULTI PACK FILE AND CANNOT BE COPIED.

If the serial numbers of the input and output drives do not agree, a multi pack file cannot be copied.

13. BAD DIRECTORY <output-drive>

Cannot read the new directory - must restart dump with another output disk.

14. BAD MAIN DIRECTORY <disk address> <drive>

Invalid input directory at sector address - all files within that segment are not copied.

15. BAD SUB DIRECTORY <disk address> <drive>

Invalid input sub directory at sector address - all files within that segment are not copied.

16. BAD HEADER <multi-file-id> <file-id> <disk address> <drive>

Invalid header - this file cannot be copied.

17. BAD SECTOR <multi-file-id> <file-id> <disk address> <drive>

The data written in this sector could not be read from the input disk without exception condition occurring. The data contained in this sector should be manually verified.

18. WARNING - <file-identifier> IS NOT AN IAD FILE

The input file was an Installation Allocated Disk (IAD) file, but the output file will not be an IAD file.

BURROUGHS CORPORATION
COMPUTER SYSTEM GROUP
SANTA BARBARA PLANT

INDEX