





**PRODUCT SPECIFICATION**

REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
A	3/7/78	<i>J. Hale</i>	Software Release Level Mark 7.0. Formerly released as section four of P. S. 2212 5579, B1800/B1700 MCP UTILITIES.
B	10/27/78	<i>J. Hale</i>	<p>8.0 RELEASE LEVEL</p> <p>1-1 Analysis of the system's Operating Log is produced each time a LN or LG command is given.</p> <p>3-1 BOJ date and time added to Job Information Records Remaining records renumbered</p> <p>3-2 File Information Records re-organized</p>
C	7/17/79	<i>J. Hale</i>	<p>9.0 RELEASE LEVEL</p> <p>3-1 COMMENT log record added.</p> <p>3-2 DMS information supplied.</p> <p>3-4 COMMENT LOG RECORD explained</p>
D	5/27/80	<i>J. Hale</i>	<p>10.0 RELEASE LEVEL</p> <p>3-3 Added number "10. The processor time." Added "random and sequential" to number 8. Added "logical and physical" to number 14. Added "logical and physical" to number 15.</p>

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B1800/B1700 SYSTEM/LOGOUT  
P. S. 2222 2640 REV D

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### GENERAL DESCRIPTION

SYSTEM/LOGOUT is an SDL program which produces a formatted analysis of the system's operating log as produced by the MCP. The program is automatically executed by the MCP each time a log is transferred via the "LN" or "LG" commands. A log transfer may also be accomplished automatically if the log being used becomes full. Ordinarily, however, the log is transferred upon instruction from the computer operator.

### RELATED DOCUMENTATION

<u>Name</u> -----	<u>Number</u> -----
81800/81700 Software Operational Guide	1068731
81800/81700 MCP II	P.S. 2212 5462

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### OPERATING INSTRUCTIONS

To produce the report, the operator may type either "LN" or "LG" on the system SPO. This will cause the MCP to terminate the copy of the log it is using, if any, and enter it as a file in the disk directory. The file will be given a unique name and the name of the file will be automatically passed to SYSTEM/LOGOUT as it is executed.

The program then references the file copy of the log and prints a formatted report of the information it contains. The program does not use switches. No modifications to the program should be necessary prior to its execution.

### MEMORY REQUIREMENTS

SYSTEM/LOGOUT requires about 4.5K bytes of memory to execute efficiently.

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### LOG RECORD TYPES

Twelve types of log records are written by the MCP to the system log. These types are:

1. Clear/Start
2. Job schedule
3. Job BOJ
4. File open
5. File close
6. DMS database open, close
7. DMS structure invocation, close
8. Peripheral assignment for initializer I/O
9. Peripheral release from initializer I/O
10. Job EOJ
11. Log transfer
12. Comment

### CLEAR/START RECORDS

A Clear/Start record in the log file will result in three lines of output on the printer. The first line will contain the date and time of the Clear/Start operation. The second will contain the name and version specifier of the MCP being used and the amount of S-memory in bits. The third will contain the name of the interpreter and GISMO used by the MCP.

### JOB INFORMATION RECORDS

Job schedule, BOJ, and EOJ records are combined to yield the following information:

1. The job number of the execution
2. The charge number used to execute the job
3. The full name of the program
4. The BOJ date and time

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5. The elapsed time for the program, in seconds
6. The message printed on the SPD by the MCP when the job terminates, if the termination is not a normal EOJ
7. The type of termination, such as "NORMAL", "DISCONTINUED", "ERROR CONDITION IN PROGRAM", "ABORTED", and so forth
8. The time and date of the program's termination
9. The processor time used by the program, in seconds
10. The time and date of the compilation of the program
11. The processor and memory priority assigned to the program at BOJ
12. The time and date that the program was scheduled
13. The number of code overlays performed by the MCP for the program
14. The interpreter used
15. The type of execution, such as "EXECUTE", "COMPILE", and so forth
16. The number of files declared in the program
17. The amount of static memory required by the program
18. The amount of dynamic memory (data overlay space) used by the program
19. The total memory used by the program for its run structure (Base/Limit area)
20. The number of data overlays required by the program.

#### DMS INFORMATION

Database open and close records are combined to yield the following information:

1. The logical database name
2. The physical database name
3. The open time
4. The unit and hardware type
5. The close time

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6. The pack name
7. The number of non-update operations
8. The number of update operations
9. The elapsed open time
10. The processor time

DMS structure invocation and close records are combined to yield the following information:

1. The structure name
2. The invoked time
3. The close time
4. The database name
5. The job number
6. The file name
7. The unit and hardware type
8. The number of random and sequential FINDS
9. The number of INSERTS
10. The number of UPDATES
11. The number of DELETES
12. The number of SYSTEM CHANGES
13. The number of EXCEPTIONS
14. The number of logical and physical READS
15. The number of logical and physical WRITES.

#### FILE INFORMATION RECORDS

Only those files utilized during an execution are logged. File open and close records are combined to yield the following information:

1. The internal name of the file
2. The external file identifier



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3. The size of each record in bytes
4. The type of hardware assigned to the file
5. The number of buffers assigned to the file
6. The maximum size of a physical block for the file if it has variable length records or the number of records per block for fixed record sizes
7. The file type such as CODE, RANDOM ACCESS, etc.
8. For disk files only - the number of blocks per disk area and the number of disk areas
9. The space in memory required by this file when opened
10. For tape files only - the serial number of the last reel of tape accessed by the file
11. The number of records in the file
12. The number of blocks in the file
13. The time and type of each open
14. The time and type of each close
15. The total time that the file was open
16. The unit name where the file resides.

#### COMMENT RECORDS

Operator supplied comments, inserted into the log via the "LC" SPO command, are printed along with the time and date of the insertion.

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