REV LTR	REVISION ISSUE DATE	APPROVED BY	REVISIONS
A	5/12/78	*Hale*	Original issue - Software Release Level Mark 7.0.
B	10/27/78	*Hale*	Changes for Software Release Level Mark 8.0. 2-1 Updated SYSTEM/MARK.SEGS paragraph. Added IMS section and explanation. Updated ALLO explanation.

DOCUMENT TRANSMITTAL

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CONTROL DOC.
None

SYSTEM B1800/B1700

PL FILE NO. _____

PROJ. NO. _____ COORD. _____ CHKR. *Nole* TO RECORDS *11-6-78* DISTRIBUTION *11-6-78*

DOC PFX	DOCUMENT NUMBER	REV	UNIT NUMBER	DL NO.	PL FILE NO	ENG. RECORDS ONLY		SEPIAS	MT REQ'D	CD DK REQ'D		REMARKS
						QTY REV PAGE	COPIES EACH PAGE					
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												GENERAL MANAGER SANTA BARBARA PLANT

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GENERAL DESCRIPTION

B1800/B1700 SYSTEM/MARK.SEGS provides the mechanism to mark individual segments of a program as important or unimportant for the Prioritized Memory Management System first introduced in the 7.0 version of the MCP. Segments which are marked as important will maintain their memory priority for SECONDS.BEFORE.DECAY seconds after they are last used. Segments which are marked unimportant (default) will lose their memory priority rapidly if they are not being used. SECONDS.BEFORE.DECAY may be specified by the operator.

RELATED DOCUMENTATION

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

OPERATING INSTRUCTIONS

SYSTEM/MARK.SEGS operates on a file named "CODE" which should be label-equated to the program file, or data base if the DMS option is used (see below), which the user wants to mark. The program accepts input records of up to 72 characters from card input (named "CARDS") or from SPO input in the form of accept messages. If card input is desired, even though the file "CARDS" is not initially present, card input may be forced by entering the following SPO message:

    <job number> AX READ

A free-field format is used in specifying segments as important or unimportant and multiple specifications may be put on a line.

SYSTEM/MARK.SEGS recognizes the following input requests and produces the indicated results.

null or blank	Creates a listing of the status of all segments of the specified program and terminates.
DMS	Causes the program to access the DMS Intrinsic code, generated by the DASDL Compiler and contained in the dictionary of the data base specified by the label equation card as opposed to a normal code file. If this option is used, it must be the first input request.
ALL 1 ALL 0	Marks all of the specified program's segments as important (1) or unimportant (0). If this instruction is used, it must be the first input request, or the second if the DMS option is used.
(<page>,) 1 (<page>,) 0	Marks the indicated segments as either important (1) or unimportant (0). For programs without pages, the <page> parameter would be omitted. <page> and are specified as either a decimal number or a hex string surrounded by "3".
%	Ignore the rest of this input record and get the next one.

Input in any other form produces an error message. SYSTEM/MARK.SEGS ignores the remainder of the record in error and gets the next one.

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SAMPLE EXECUTE DECK

Below is a sample deck for marking three segments of the program
"CANDE/HANDLER" as important and one segment, previously marked
important, as unimportant.

```
?EX SYSTEM/MARK.SEGS;
?FI CODE NAME CANDE/HANDLER;
?DATA CARDS
(0,1) 1                % mark page 0, segment 1 as important
   (2,3)1 (1,7) 1      % mark page 2, segment 3 as important and
                       %   page 1, segment 7 as important
(0,5) 0                % mark page 0, segment 5 as unimportant
?END
```

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