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DECUS NO.	8-519
TITLE	MACRO-8 PASS 3 OUTPUT FORMAT PATCH
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SOURCE LANGUAGE	MACHINE LANGUAGE

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MACRO-8 PASS 3 OUTPUT FORMAT PATCH

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ABSTRACT

Pass 3 generates the primary documentation for a user program. The normal format of this documentation, however, is not easily stored in notebooks and is often difficult to reproduce on 8 1/2" x 11" sheets. This patch will format the Pass 3 output on the teletype into page size blocks of either single sheets or "fan-fold" paper.

Approximately the top 25% of the Zero Page Literal Buffer (loc. 3533 - 3577) is used for the main subroutine. This moves the space allocated to page zero literals up to loc. 3532. Most programs should be capable of running in this program, since it is rare that the entire zero page will be dedicated to literals.

OPERATION

In Pass 3 the program will initialize at the start of each computer page and will automatically leave a 13 line margin after every 53 lines of output. New page settings (by "PAGE" or "*" instructions) will initialize the program to start a new page and the computer will HALT. The operator should remove the previous page's printout to provide for proper alignment at the start of a new page and then depress CONTINUE. (Notice that the "PAUSE" command can be omitted at the end of a tape if "PAGE" is used since the computer will halt after processing "PAGE"). In this way each computer page will begin at the top of a sheet.

A modification can be made so that single sheets could be inserted instead of "fan-fold" paper:

Change:	<u>Loc.</u>	<u>To</u>
	3544	7402
3545 thru	3551	7000

When the output stops, the operator will insert a new sheet and then depress the CONTINUE switch.

MACRO-8 (1971) OUTPUT FORMAT PATCH REV.B

0100 3532 ZBUFE, 3532

2572 0000 ZEROT,0

/NEW PAGE

~~2573~~ 3047 DCA TEM1A

2574 4776 JMS PAGST

/INITIALIZE LINE COUNTER IF PASS 3

2575 5772 JMP I ZEROT

2576 3555

2577 7000 NOP

2630	0000	TYCAR, 0	/CR-LF
2631	1376	TAD (215)	
2632	4402	JMS I BBB	
2633	4635	JMS PAGING	/INCREMENT & TEST LINE COUNTER IF PASS 3
2634	5630	JMP I TYCAR	
2635	3533		
3106	1373	TAD (132)	
3173	0132		
3533	0000	PAGING, 0	
3534	1375	TAD (212)	
3535	4402	JMS I BBB	
3536	1774	TAD PUNONE+1	
3537	1376	TAD (-5313)	
3540	7640	SZA CLA	/PASS 3?
3541	5733	JMP I PAGING	/NO, RETURN
3542	2371	ISZ PAGEND	/YES, LINE COUNTER FULL?
3543	5733	JMP I PAGING	/NO, RETURN
3544	1377	TAD (-15)	/YES, INCREMENT MARGIN
3545	3372	DCA LFCT	
3546	1375	TAD (212)	
3547	4402	JMS I BBB	
3550	2372	ISZ LFCT	
3551	5346	JMP .-3	
3552	1373	TAD (7713)	/RE-INITIALIZE LINE COUNTER
3553	3371	DCA PAGEND	
3554	5733	JMP I PAGING	
3555	0000	PAGST, 0	
3556	3050	DCA TEM1A+1	
3557	3051	DCA TEM1A+2	
3560	3052	DCA VALIA	
3561	1774	TAD PUNONE+1	
3562	1376	TAD (-5313)	
3563	7640	SZA CLA	/PASS 3?
3564	5755	JMP I PAGST	/NO, RETURN
3565	1373	TAD (7713)	/YES, INITIALIZE LINE COUNTER
3566	3371	DCA PAGEND	
3567	7402	HLT	
3570	5755	JMP I PAGST	
3571	0000	PAGEND, 0	
3572	0000	LFCT, 0	
3573	7713		
3574	3001		
3575	0212		
3576	2465		
3577	7763		