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DECUS NO.	8-354
TITLE	PASS 3 ASR 33 FORMAT OVERLAY
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SOURCE LANGUAGE	PAL III

PASS 3 ASR 33 FORMAT OVERLAY

DECUS Program Library Write-up

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ABSTRACT

Pass 3 from the assembler is the primary documentation and is usually cut into page size for placement into notebooks. This overlay will automatically format the output on the ASR 33 teletype into page size blocks.

This modification dedicates pass 3 to only type written output as the leader-trailer is suppressed. The control of this routine uses the high speed punch locations, restricting PAL to low speed punch on pass 1 and pass 2. The main body of the routine uses 33 locations starting at 6600. This is just below the high speed reader buffer and should be above the symbol tables for most programs.

/PAL III PASS 3 FORMAT OVERLAY
 /FRANK MELCHIOR JR. 9 NOV 70

		*161		
Ø161	66ØØ	PAGINZ,	PAGING	
Ø162	ØØØØ	LINCT,	Ø	
		*226		
Ø226	3162		DCA LINCT	/INITIALIZE LINE COUNTER
		*6Ø3		
Ø6Ø3	1117		TAD CRLF	
Ø6Ø4	443Ø		JMS I EEE	
Ø6Ø5	4451		JMS I LOTI	/LEADER TRAILER
Ø6Ø6	3372		DCA LOW	/INITIALIZE SORT
Ø6Ø7	3373		DCA LOW+1	
Ø61Ø	3374		DCA LOW+2	
Ø611	5214		JMP ELOOP	
		*614		
Ø614	1134	ELOOP,	TAD PF	
Ø615	771Ø		SPA CLA	/PASS 3?
Ø616	2162		ISZ LINCT	/YES
Ø617	741Ø		SKP	/NO
Ø62Ø	4561		JMS I PAGINZ	
		*642		
Ø642	5214		JMP ELOOP	
		*7ØØ		
Ø7ØØ	5214		JMP ELOOP	
		*1264		
1264	ØØØØ	LOT2,	Ø	
1265	13Ø6		TAD KONS	
1266	3112		DCA TEMP2	
1267	1134		TAD PF	
127Ø	754Ø		SZA SMA	/PASS 1 OR PASS 3?
1271	53Ø1		JMP LDI	/NO, PASS 2
1272	77ØØ		SMA CLA	/PASS 3?
1273	53Ø1		JMP LDI	/NO, PASS 1?
1274	1162		TAD LINCT	
1275	1Ø6Ø		TAD C2	
1276	3162		DCA LINCT	
1277	4561		JMS I PAGINZ	
13ØØ	5664<		JMP I LDTR	
13Ø1	1Ø65	LDI,	TAD C2ØØ	
13Ø2	4422		JMS I DDD	
13Ø3	2112		ISZ TEMP2	/FULL LEADER-TRAILER
13Ø4	53Ø1		JMP LDI	/NO
13Ø5	5664		JMP I LDTR	/YES
13Ø6	77ØØ	KONS,	-1ØØ	
		*1655		
1655	7ØØØ	POUT,	NOP	
1656	7ØØØ		NOP	
1657	72ØØ		CLA	
166Ø	2162		ISZ LINCT	

1661	5263		JMP .+2	
1662	4561		JMS I PAGINZ	
		*66000		
6600	00000	PAGING,	Ø	
6601	7200		CLA	
6602	1162		TAD LINCT	/ZERO EXCEPT LAST PAGE
6603	1235		TAD M1Ø	/BOTTOM MARGIN
6604	3162		DCA LINCT	
6605	1Ø7Ø		TAD C215	/CARRIAGE RETURN
6606	4422		JMS I DDD	
6607	1236		TAD C212	
6610	4422		JMS I DDD	
6611	2162		ISZ LINCT	/MAKE BOTTOM MARGIN
6612	52Ø7		JMP .-3	
6613	1241		TAD M111	
6614	3234		DCA STCT	/PAGE DELIMITER COUNTER
6615	11Ø4		TAD M6	
6616	3162		DCA LINCT	/TOP MARGIN
6617	1237		TAD C252	/STAR
6620	4422		JMS I DDD	
6621	2234		ISZ STCT	/MAKE PAGE DELIMITER
6622	5217		JMP .-3	
6623	1Ø7Ø		TAD C215	
6624	4422		JMS I DDD	
6625	1236		TAD C212	
6626	4422		JMS I DDD	
6627	2162		ISZ LINCT	/MAKE TOP MARGIN
6630	5225		JMP .-3	
6631	124Ø		TAD M63	
6632	3162		DCA LINCT	
6633	56000		JMP I PAGING	
6634	00000	STCT,	Ø	
6635	777Ø	M1Ø,	-1Ø	
6636	Ø212	C212,	212	
6637	Ø252	C252,	252	
6640	7715	M63,	-63	
6641	7667	M111,	-111	

C2=6Ø
C200=65
C215=7Ø
CRLF=117
DDD=22
EEE=3Ø
LDTI=51
LOW-772
M6=1Ø4
PF=134
TEMP2=112

CRLF	Ø117
C2	ØØ6Ø
C2ØØ	ØØ65
C212	6636
C215	ØØ7Ø
C252	6637
DDD	ØØ22
EEE	ØØ3Ø
ELOOP	Ø614
KONS	13Ø6
LDI	13Ø1
LDTI	ØØ51
LOT2	1264
LINCT	Ø162
LOW	Ø772
M1Ø	6635
M111	6641
M6	Ø1Ø4
M63	664Ø
PAGING	66ØØ
PAGINZ	Ø161
PF	Ø134
POUT	1655
STCT	6634
TEMP2	Ø112