UNIVERSITY OF ILLINOIS

DIGITAL COMPUTER

ILLINOIS CODE P 9 - 28

TITLE	Decimal Order Print Routine (SADOI or DOI)
TYPE	Closed
NUMBER OF WORDS	23
TEMPORARY STORAGE	OF, 3F
DURATION	.7 second per order pair
READ AROUND RATIO	Negligible
DESCRIPTION	The routine is entered with the link in Q and the

address of the order pair to be printed in the left
hand address position of A.

The following is then printed:

4 decimal digit address of order pair, space, left
hand function digits, space, 4 digit address of left
hand order, space, right hand function digits, space,
4 decimal digit address of right hand order.

RT: 11/25/59

DATE   June 25, 1952
CODED BY   Sheldon F. Best
CHECKED BY   R. F. King
APPROVED BY   J. P. Nash

ns

LOCATION	ORDER		NOTES PAGE 1 P9
	OOK (P9)		
0	46 2L		Plant address
	S5 1F		
1	L4 L		
	42 11L		Link
2	L5 F	By 0	
	40 F		
3	L5 20L		
	40 3F		Set tally
4	92 129F		Carriage return and line feed
	50 2L		
5	J0 19L		
	00 7F		
6	75 22L		Convert to fraction
	10 39F		
7	75 21L	From 10	
	00 36F		
8	82 4F		Punch a digit
	10 40F		
9	L5 3F		
	L4 3F		Tally
10	40 3F		
	36 7L		
11	00 4F		
	32 F	By 1	End test
12	00 4F		
	32 16L		
13	92 961F		Punch space
	50 F		
14	S5 F		
	82 8F	From 18	Print function digits
15	92 961F		
	10 7F		Address depends upon shift of
16	26 5L		92 order and will be specified
	92 961F	From 12	later.

LOCATION	ORDER		NOTES
17	50 F		
	S5 F		
18	00 20F		
	22 14L		
19	00 4095F		Extract constant
	00 F		
20	08 2176F		
	00 F		Print constant
21	00 F		
	00 10F		10×2^{-39}
22	00F 00 4096		
	0010 0000 J		$2^{12}/10^{4} + \epsilon$