UNIVERSITY OF ILLINOIS DIGITAL COMPUTER

LIBRARY ROUTINE P 12 - 194

TITLE:

Single Column Print (DOI or SADOI)

TYPE:

Closed

NUMBER OF WORDS:

13

TEMPORARY STORAGE:

• O

ACCURACY:

Prints to m decimal digits with approximate round-off.

DURATION:

25 milliseconds per character punched.

PARAMETERS:

S 3: 00 F 00 mF

m = number of decimal digits printed.

DESCRIPTION:

Using standard subroutine entry, a carriage return and line feed is followed by the contents of the accumulator printed as a sign followed by m decimal digits, the number being partially rounded off before being printed. The number added for round-off will lie between $.36 \times 10^{-m}$ and $.63 \times 10^{-m}$. The following tables shows the round-off as a function of m.

m		Round-off
1	*	0.63×10^{-m}
2		•39
3		.49
74		.61
5		•38
6		.48
7		.60
8		•37
9		•47
10		•58
11		. 36

NOTE:

This program has the same features as P - 6 except that a delay has been provided after the carriage return.

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REVISED BY J. H. Fishel				
APPROVED BY J. P. Nash				
DATE September 12, 1955				
REVISED BY Ross Flenner				
DATE December 29, 1959				
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LOCATION	ORDER	NOTES	PAGE 1 P 12
	00 K(Pl2)		
0	40 F	Store argument	i l
	K5 F	er en	
1	42 11L	Set Li nk	
	92 131F	Carriage return and line feed	
2	92 515F	Delay	
	L5 F		
- 3	32 4L	Test Sign	
	92 708F	Print (-)	
4	26 5L		
	92 644F	Print (+)	
5	19 F	Add round-off	
	L6 F		
6	40 F		
	00 3322		į
	0000 00001	(log ₂ 10)/4	
7	00 F		
	50 3F		
8	00 2F		
·	7J 569F	Interlude	
9	00 20F	to determine	
	46 568F	round-off	
10	92 133F		
	L5 571F		
11	26 93F		·
	22 1476N		
	01 6K		
6	40 F		
	19 63S3	Set counter	
7	50 F		
	40 F	-	
8	75 12L	Form and print one	
	00 36F	character	
9	82 4F		
	10 40F	1	

LOCATION	ORDER	NOTES	PAGE 2	P 12
10	L5 F		-	
	L4 F	Count		
11	32 7L			
	22 F	Link		
12	00 F			
	00 10F	Constant		
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