UNIVERSITY OF ILLINOIS DIGITAL COMPUTER

ILLINOIS CODE 55 - Ph

TITLE

TYPE

NUMBER OF WORDS

TEMPORARY STORAGE

DURATION

READ AROUND

PARAMETERS

Zero Suppression Integer Print (DOI or SADOI)
Closed with one program parameter

27

4 words at 0, 1, 2, 3

Punching Time

Negligible

The routine is called into use by

n	50 nF	JO pt
P	50 pF or	50 pF
p+l	26 F	26 F

DESCRIPTION

according as a sign is or is not desired. This routine will print the contents of R_1 as an integer with or without a sign to n places where $2 \le n \le 11$. Zeros will be suppressed on the left unless the number is zero, when the last zero is printed. One space is punched after the number. If more spaces are desired when n < 11, it is only necessary to increase n.

RT: 1/23/59
DATE October 16, 1952
CODED BY D.J. Wheeler
APPROVED BY J.P. Nash

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	LOCATION	ORDER		NOTES PAGE 1
	0	00 K(P4) 40 F		Store N
		41 2F		Clear 2F
	1	S5 F		
-		46 2F	1	Set up link and count
	2	L4 26L		•
	_	42 23L	1	
	3.	36 6L		
		L5 F		
	14	32 5L		
		92 706F		- sign
	5	26 6L		
		92 642F	From 5L	+ sign
	6	50 26L	From 3L	it in the second second
		75 24L	From 8L	
	7	L5 2F		
		LO 25L		Generate 10 ⁿ x 2 ⁻³⁹
	8	40 2F		
		32 6L		
	9	L4 26L		
		42 2F		* .
	10	S5 F		
		40 1F		
	11	19 38F		14
		40 3F		
	12	L7 F		
		50 L		Roundoff
	13	66 1F		N /10 ⁿ to Q
		75 24L	From 10	Multiply by 10
	14	LO 3F		Test for zero
	•	32 16L		If \(\daggerightarrow 0 \), to print
	15	00 1F		Shift left 1 and punch a space
	-/	92 961F		
	16	26 19L		
	70	L4 3F	From 14	Add back 2-39
	17	00 36F	FIOM I.	Shift 36

LOCATION	ORDER		NOTES PAGE 2 P 4
	82 4F		Punch 1 character and shift 4
18	10 40F		Shift back 40
	41 3F		Clear 3F to 0
19	L5 2F	From 16	
	L4 26L		Count
20	42 2F		
	32 13L	·	Reenter loop if next to last step
21	75 24L		Last step always
	00 36F		Punch
22	82 4F		Punch 1 character (last)
	92 961F		Space
23	32 23L		Waste order
	22 () F	By 2L	Link
24	00 F		
•	00 lOF		
25	00 lF	'	
	00 lF		
26	80 F		
	00 lF		
	_		
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