

NELSON RESEARCH LABORATORIES  
STAFFORD E. E. CO. LTD.

NS t 255

Sheet No. : 2.

Description

Given DL's  $A, A + 3, 10$  of R25T (General Decimal Integer Read - 64 Columns) this subroutine reads a parameter card, calculates the required parameters and inserts them into the subroutine.

Data

One parameter card.

Y row ( $\alpha, \beta$ ). 1's corresponding to the columns to be read.

X row ( $\alpha, \beta$ ). 1's corresponding to the first columns of integers to be read.

O row ( $\alpha$ ). Zero if signs above the first digit.  
Non zero if signs precede the first digit.

Result

The following parameters are set, and the reader is switched off.

- $10_{27}$  Zero.
- $10_{23,24}$  1's to indicate columns of  $\beta$  and  $\alpha$  field respectively to be read.
- $(A + 3)_{11}$  1's to indicate last columns of integers in  $\beta$  field.
- $(A + 3)_{20}$  " " " first " " " "  $\beta$  "
- $10_{5,6}$  " " " first " " " "  $\beta$  and  $\alpha$  fields respectively.
- $10_{31}$  1's to indicate last columns of integers in  $\alpha$  field.

Sign above first digit.

Sign precedes first digit.

$A_{31}$   $(A + 1), 21 - 21 (2) 1 3$   
 $A_0$   $(A + 1), 21 - 21 (2) 0 3$   
 $A_1$   $(A + 1), 21 - 21 (2) 1 3$

$(A + 1), 21 - 22 (2) 1 3$   
 $(A + 1), 22 - 21 (2) 0 3$   
 $(A + 1), 21 - 22 (2) 1 3$

Instructions for Use

Stores Used.	14	15	19	20	21
Contents at Entry.	-	link	-	-	-
Contents at Exit.	-	-	-	-	-
Occupies.	DL.B.	(N.B. $B \neq A$ or $A + 3$ .)			
Entry.	$B_0$				
Parameters.	$B_{18}$	$B, 15 - (A + 3), 0$	$23$		
	$B_{29}$	$B, 20 - A, (1), 0$	$2$		

Available only in  
DL's 6748.

D.L. 6 Track							
Card Nos. 1-3							
inc	ms	s	D	C	w	T	
							Y
							X
							0
							1
0	6	12	- 2 <sub>4</sub>		0	8	2
1	6	9	- 2 <sub>4</sub>		0	27	3
2	6	22	- 21	2	0	2	4
3	6	0	- 19		1	31	X 5
4	6	19	- 10		0	31	6
5	6	0	- 19		0	5	7
6	6	21	- 15		0	0	8
7	6	25	- 22		0	0	9
8	6	15	- 10		21	5	Y
9	6	21	- 5		0	15	X
10	6	15	- 1		18	8	0
11	6	0	- 28		0	0	X 1
12	6	19	- 15		1	2	2
13	6	6	- 20	2	7	13	3
14	6	6	- 20	2	8	13	4
15	6	21	- 14		0	0	5
16	6	15	- 10		19	0	6
17	6	29	- 15		0	0	7
18	6	15	- 5		0	23	8
19	6	25	- 23		0	0	9
20	6	0	- 21		0	5	X Y
21	6	10	- 14		0	16	X
22	3	21	- 21	2	0	3	0
23	3	21	- 21	2	1	3	1
24	3	22	- 21	2	0	3	2
25	3	21	- 22	2	1	3	3
26	1	30	- 10		31	2	4
27	6	4	- 24		0	31	5
28	6	0	- 21		1	1	6
29	6	20	- 2	1	0	2	7
30	6	19	- 22	2	0	2	8
31	6	21	- 10	2	22	2	9

R26T

- 6<sub>0</sub> 12 - 2<sub>4</sub>
- 6<sub>10</sub> 15 - 1<sub>20</sub> set link
- 6<sub>20</sub> 0<sub>2</sub> - 21<sub>2</sub> X
- 6<sub>21</sub> 4 - 2<sub>4</sub>
- 6<sub>28</sub> 0<sub>2</sub> - 21<sub>3</sub>
- 6<sub>31</sub> 21<sub>32</sub> - 10<sub>23,24</sub>
- 6<sub>2</sub> 0<sub>2</sub> - 19<sub>2</sub> X α starts
- 6<sub>4</sub> 19<sub>2</sub> - 10<sub>2</sub>
- 6<sub>5</sub> 0<sub>2</sub> - 19<sub>3</sub> β starts
- 6<sub>12</sub> 19<sub>3</sub> - 15
- 6<sub>16</sub> 15 - 10<sub>5</sub>
- 6<sub>15</sub> 15 - 5<sub>20</sub>
- 6<sub>20</sub> 0 - 28 X sign indication

