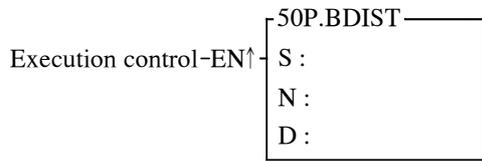


Data movement instruction

FUN50 BDIST	BYTE DISTRIBUTE	FUN50 BDIST
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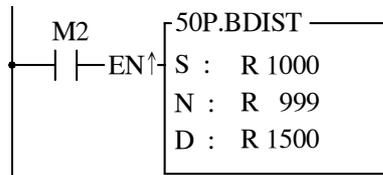


S : Starting address of source register to be distributed
 N : Number of bytes to be distributed
 D : Registers to store the distributed data
 S , N , D may associate with V , Z index register to serve the indirect addressing application .

Range Ope- rand	HR	ROR	DR	K
		R0 R3839	R5000 R8071	D0 D3071
S	○	○	○	
N	○	○	○	1~256
D	○	○*	○	

- When execution control "EN" =1 or "EN↑" (P instruction) changes from 0→1 , it will perform the byte distribution starting from S , length by N , and then store the results into D registers .
- This instruction will not act if invalid range of length .
- When communicating with intelligent peripheral in binary data format , this instruction may be applied to do byte distribution for data transmission .

Example :



Description : When M2 changes from 0→1 , it will perform the byte distribution starting from R1000 , the length is assigned by R999 , and then store the results into registers starting from R1500 .
 It is supposed R999=9 , the results of distribution will store into R1500~R1508 .

	S	
	High Byte	Low Byte
R1000	Byte-0	Byte-1
R1001	Byte-2	Byte-3
R1002	Byte-4	Byte-5
R1003	Byte-6	Byte-7
R1004	Byte-8	Don't care

	D	
	High Byte	Low Byte
R1500	00	Byte-0
R1501	00	Byte-1
R1502	00	Byte-2
R1503	00	Byte-3
R1504	00	Byte-4
R1505	00	Byte-5
R1506	00	Byte-6
R1507	00	Byte-7
R1508	00	Byte-8