CPIR

Block compare with increment.

Function:

$$A - [HL]; HL \leftarrow HL + 1; BC \leftarrow BC - 1;$$

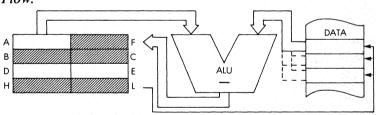
Repeat until BC = 0 or A = [HL]

1	1	1,	0	1	1	0	1	byte 1: ED
			1.	4,14				
1	0	1	1	0	0	0	1	byte 2: B1

Description:

The contents of the memory location addressed by the HL register pair are subtracted from the contents of the accumulator and the result is discarded. Then the HL register pair is incremented and the BC register pair is decremented. If BC \neq 0 and A \neq [HL], then the program counter is decremented by 2 and the instruction is re-executed.

Data Flow:



Timing:

BC = 0 or A = [HL] : 4 M cycles; 16 T states:

8 usec @ 2 MHz

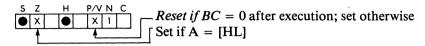
BC \neq 0 and A \neq [HL]: 5 M cycles; 21 T states:

10.5 usec @ 2 MHz

Addressing Mode: indirect.

PROGRAMMING THE Z80

Flags:



00

Example:

CPIR



н	039B	L

0051

After:

