THE Z80 INSTRUCTION SET

IN r, (C) Load register r from port(C)

Function:

r ← (C)

Format:

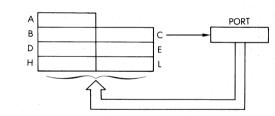
[1	1	1	0	1	1	0	1	byte 1: ED
	0	1	•	- r	-	0	0	0	byte 2

Description:

Data Flow:

The peripheral device addressed by the contents of the C register is read and the result is loaded into the specified register.

C provides bits A0 to A7 of the address bus. B provides bits A8 to A15.



r may be any one of:

A – 111	E – 011
$B\ -\ 000$	H – 100
C - 001	L – 101
$D\ -\ 010$	

Timing:

3 M cycles; 12 T states; 6 usec @ 2 MHz

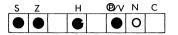
Addressing Mode: External.

r:	Α	В	С	D	Е	Ĥ	L
ED	78	40	48	50	58	60	68

Byte Codes:

PROGRAMMING THE Z80

Flags:



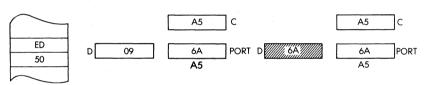
It is important to note that IN $A_{n}(N)$ does not have any effect on the flags, while IN $r_{n}(C)$ does.

Example:

IN D, (C)

Before:

After:



OBJECT CODE