

8. 80x86 Mikroişlemci Temel Giriş/Çıkış Teknikleri

8.1. 8086 Giriş/Çıkış Komutları

TABLE 8.1 8086 I/O INSTRUCTIONS

Type	Instruction	Address bus	Data bus	Control bus ^a	
				Min. mode	Max. mode
Direct	IN AL (or AX),port	A0-A7 = port address ^b A8-A19 = 0	D0-D7 = even byte D8-D15 = odd byte D0-D15 = even word	$\overline{M/\overline{IO}} = 0$ $\overline{RD} = 0$	$\overline{IORC} = 0$
		OUT port,AL (or AX)	A0-A7 = port address ^b A8-A19 = 0	D0-D7 = even byte D8-D15 = odd byte D0-D15 = even word	$\overline{M/\overline{IO}} = 0$ $\overline{WR} = 0$
Indirect	IN AL (or AX),DX	A0-A15 = port address ^c A16-A19 = 0	As above	As above	As above
		OUT DX,AL (or AX)	A0-A15 = port address ^c A16-A19 = 0	As above	As above

^aBHE and A0 are encoded as follows:

\overline{BHE}	A0	
0	0	Word access
0	1	Odd-byte access
1	0	Even-byte access
1	1	No action

^bThe port address is supplied within the instruction.

^cThe port address is supplied in register DX.



