

HOW UP EXECUTES AN INSTRUCTION?

ASSEMBLY INSTRUCTION:

LDA 4200
MVI B,78H
ADD B
STA 4500H
HLT

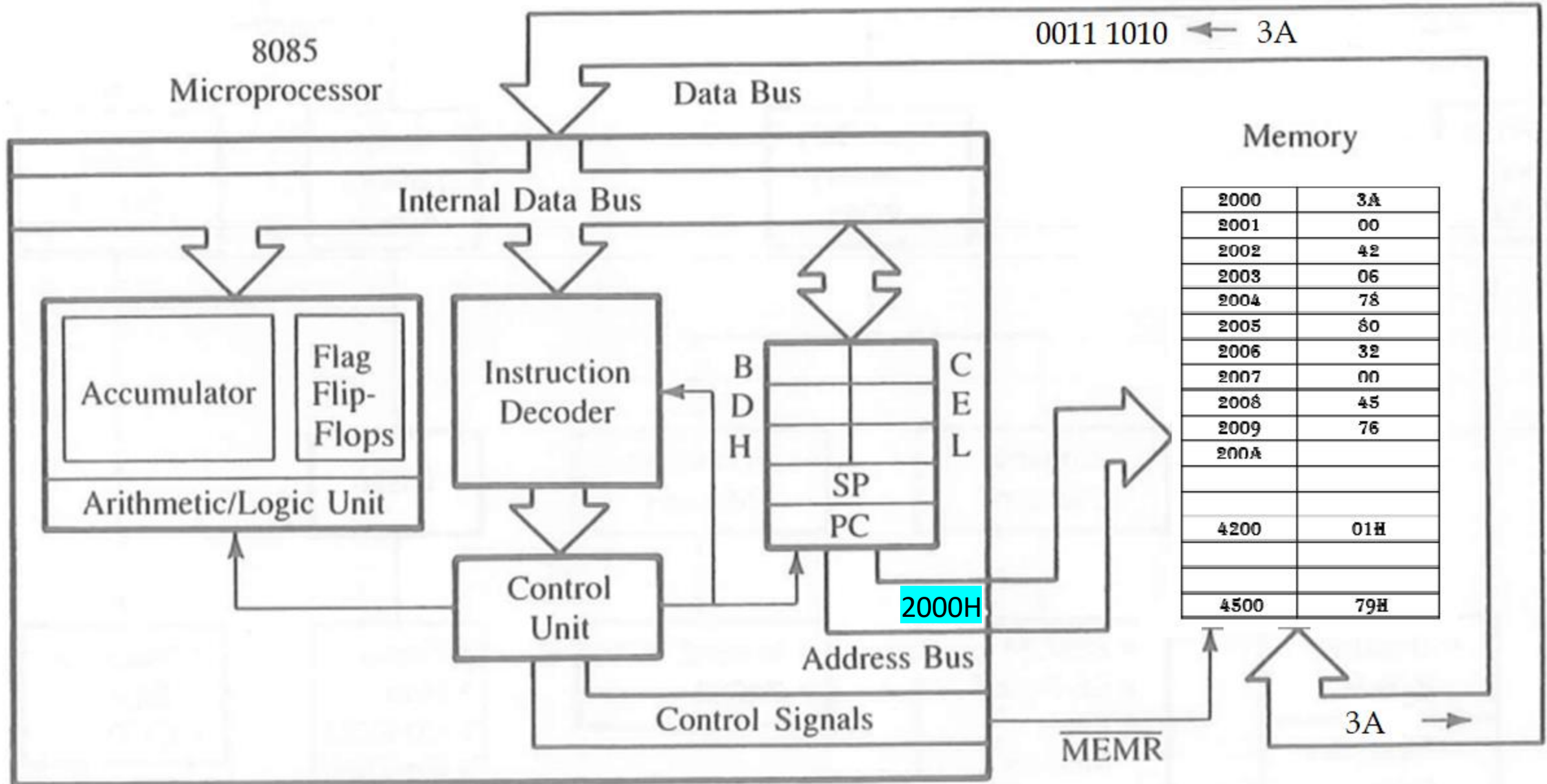
MACHINE CODE:

2000	3A	LDA 4200
2001	00	
2002	42	
2003	06	MVI B,78H
2004	78	
2005	80	ADD B
2006	32	STA 4500H
2007	00	
2008	45	
2009	76	HLT
200A		

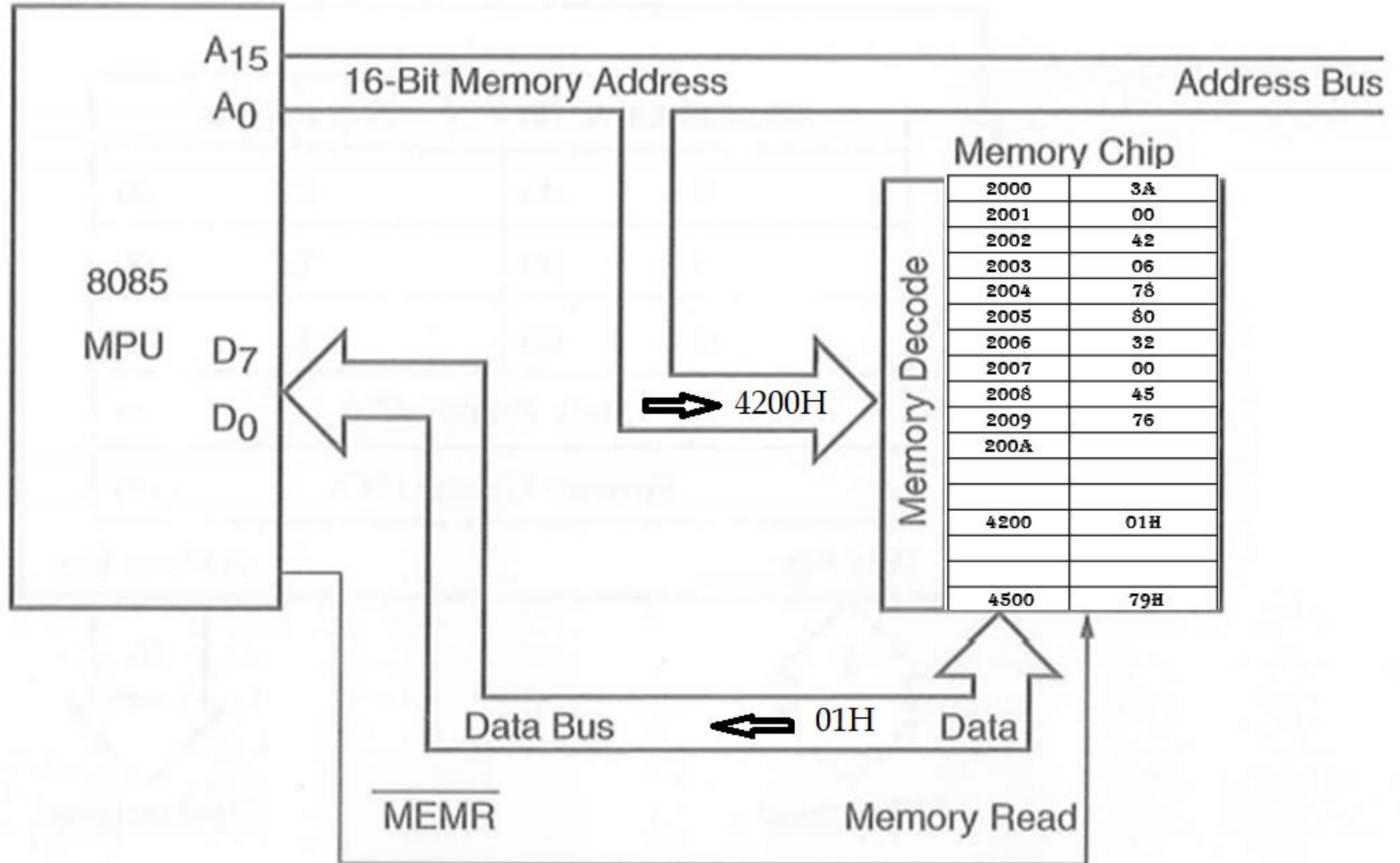
MEMORY

2000	3A
2001	00
2002	42
2003	06
2004	78
2005	80
2006	32
2007	00
2008	45
2009	76
200A	
4200	01H
4500	79H

OPCODE FETCH



MEMORY READ



MEMORY WRITE

