

PUSH

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PUSH	Push Top of Return Stack			
Syntax:	[<i>label</i>] PUSH			
Operands:	None			
Operation:	(PC+2) → TOS			
Status Affected:	None			
Encoding:	0000	0000	0000	0101
Description:	The PC+2 is pushed onto the top of the return stack. The previous TOS value is pushed down on the stack. This instruction allows to implement a software stack by modifying TOS, and then push it onto the return stack.			
Words:	1			
Cycles:	1			
Q Cycle Activity:				
	Q1	Q2	Q3	Q4
	Decode	PUSH PC+2 onto return stack	No operation	No operation

Example: PUSH

Before Instruction

TOS	=	00345Ah
PC	=	000124h

After Instruction

PC	=	000126h
TOS	=	000126h
Stack (1 level down)	=	00345Ah

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