

































Basic x86 Addressing Modes				
	Two operands per ins	truction		
	Source/dest operand	Second source operand		
	Register	Register		
	Register	Immediate		
	Register	Memory		
	Memory	Register		
	Memory	Immediate		
	Memory addressing n Address in register Address = R_{base} + disp Address = R_{base} + 2^{scal} Address = R_{base} + 2^{scal} 	hodes lacement $e^{e} \times R_{index}$ (scale = 0, 1, 2, $e^{ie} \times R_{index}$ + displacement	or 3)	
Š №	1 Chapte	r 2 — Instructions: Language of the Con	nputer — 18	

a. JE EIP + displacement 4 4 8 JE Condi- Displacement b. CALL 8 32 CALL Offset c. MOV EBX, [EDI + 45] 6 1 1 8 8 MOV d w rim Postbyte Displacement d. PUSH ESI 5 3 PUSH Reg e. ADD EAX, #6765 4 3 1 32 ADD Reg w Immediate	 Variable length encoding Postfix bytes specify addressing mode Prefix bytes modify operation Operand length, repetition, locking,
7 1 8 32	













