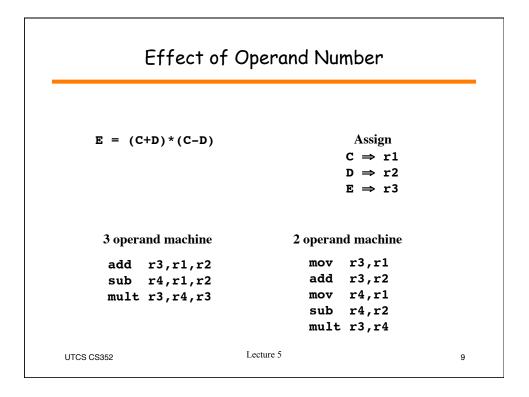
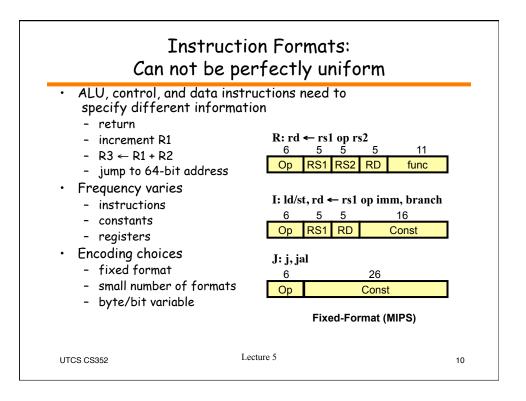
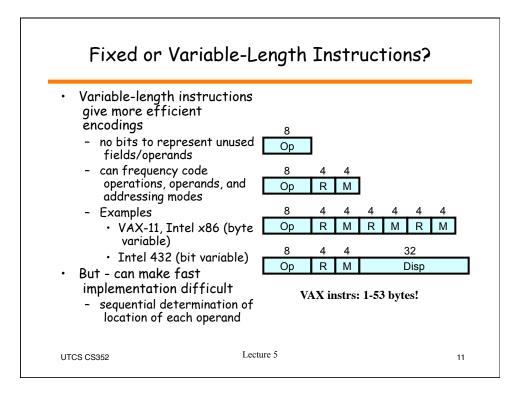
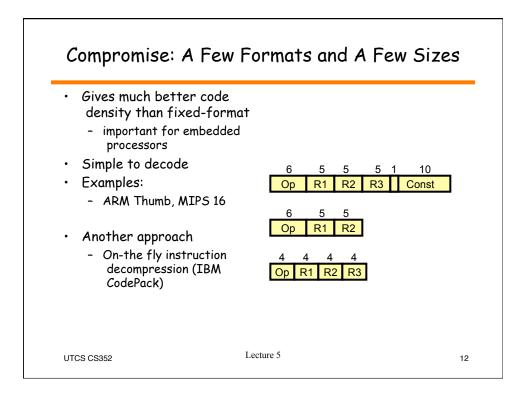


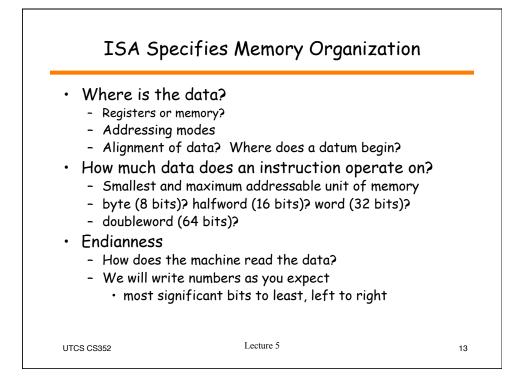
Operand Number Affects All Instruction Classes				
• No Operands	HALT NOP			
• 1 operand	NOT R4 R4 ⇐ R4	JMP _L1		
• 2 operands	ADD R1, R2 R1 \leftarrow F	{1 + R2 LDI R3, #12		
• 3 operands	ADD R1, R2, R3	R1 ⇐ R2 + R3		
• > 3 operands	MADD R4,R1,R2,R3	R4 ⇐ R1+(R2*R3)		
UTCS CS352	Lecture 5	8		

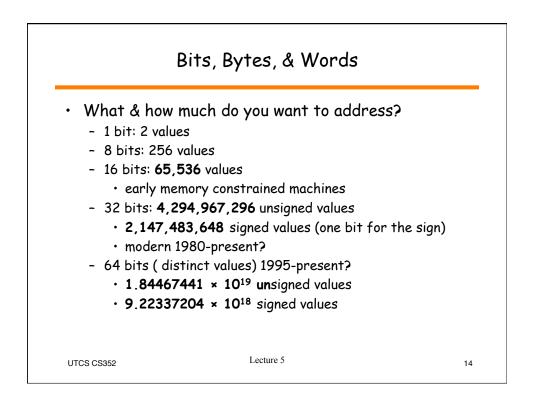


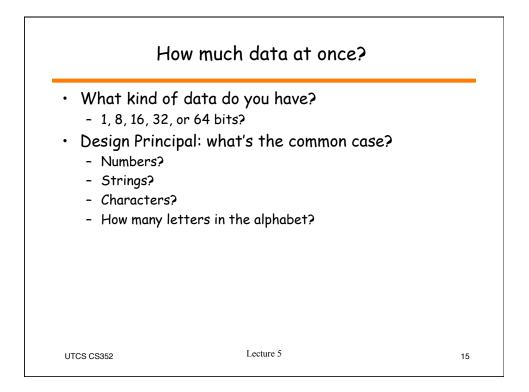


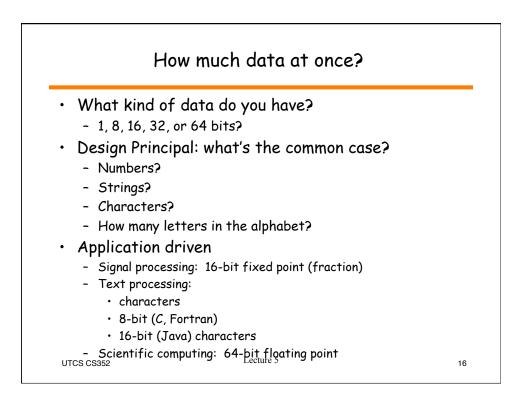


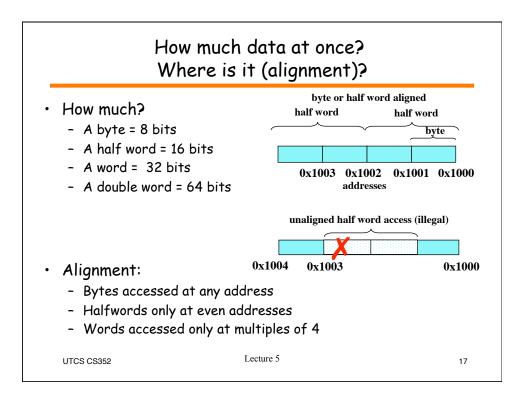


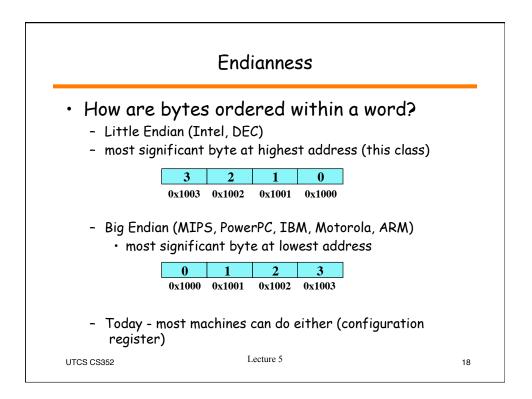


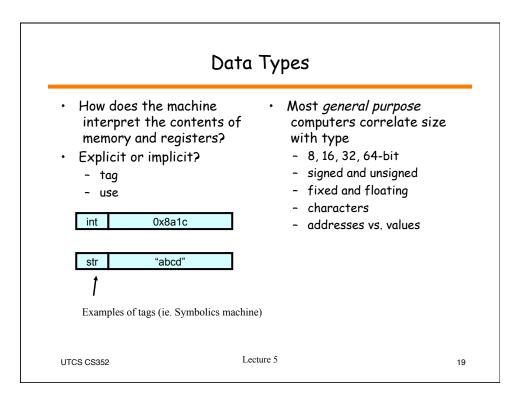


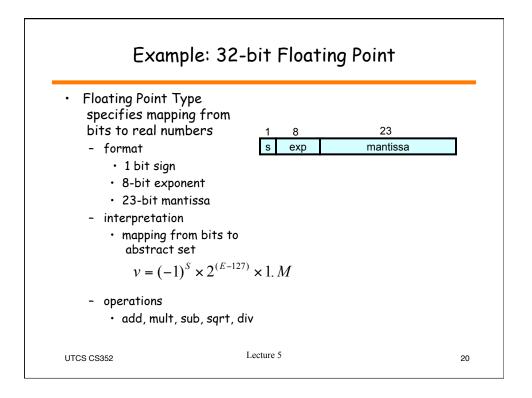


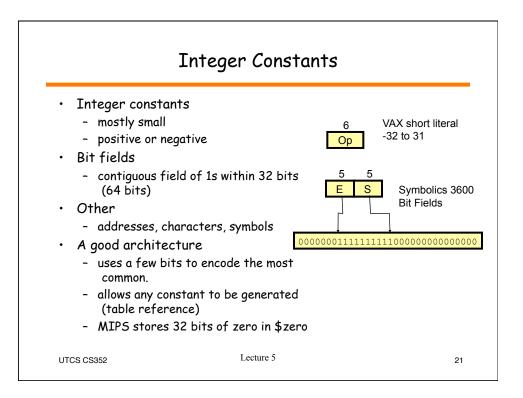


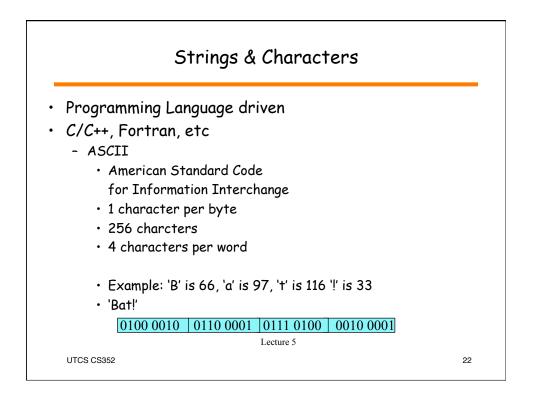


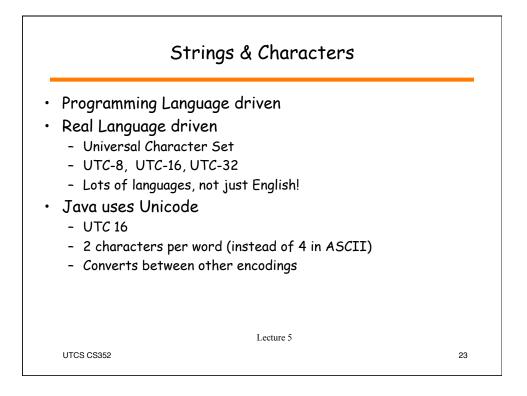


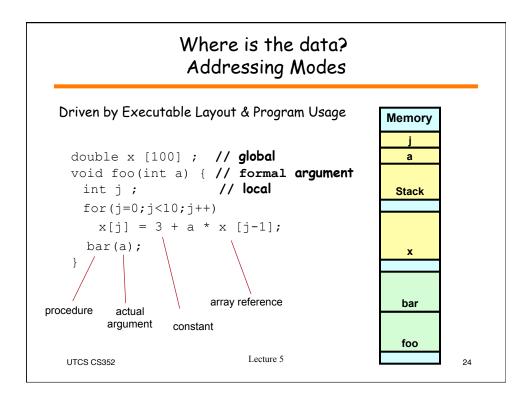


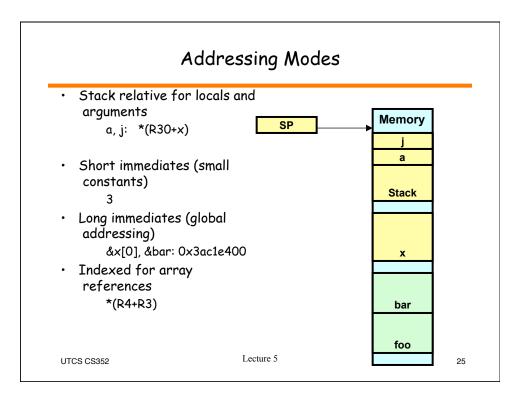












Addressing Modes				
	<pre>#n immediate (0x1000) absolute Rn Register value (Rn) Register indirect (as address) - (Rn) predecrement (Rn) + postincrement * (Rn) Memory indirect * (Rn) + postincrement d (Rn) Displacement d (Rn) [Rx] Scaled</pre>			
UTCS CS352	Lecture 5	26		

	Summary	
 the effect of computati memory s⁻ conditiona Data represe Next Time Homework #2000 	ry, registers, PC (Program Counte each operation on the system st on tate Il control ntation, layout, addressing 2 is due 2/9 in registers & memory,	
UTCS CS352	Lecture 5	27