

Stu	Student Activity									
	How long (in ns) does each instruction take?									
		Single Cycle	Multi- cycle	Which ones are						
	loads			faster in Multi-cycle?						
	stores									
	branches									
	arithmetic									
	Cycle Time			-						
		1	J	5						



C tu	dont Activity								
Student Activity									
	How long does it take to execute a sequence of four lw instructions?								
		Instruction Fetch	Register Read	ALU Operation	Data Access	Register Write			
	Load Word (lw)	200 ps	100 ps	200 ps	200 ps	100 ps			
	<u> </u>			<u> </u>	1				
	lw \$1, 100 (\$0)								
	lw \$1, 104 (\$0)								
	lw \$1, 108 (\$0)								
	lw \$1, 112(\$0)								
	(Time in ps)				(Ti	me in ps)			
S	Single Cycle = Pipelined =								

