

_____ Seat Number

Tomasulo Coding Form

Name _____

Architecture

Number of Reservation Stations				Number of Units		Latency			
load	store	fadd	fmul	FP add	FP mult	load	fadd	fmul	fdiv
5	5	3	2	1	1	1	2	10	40

Assume that the second instruction is waiting for memory and that all instructions have issued. Then in cycle 10, the second instruction accesses memory. Show the results through cycle 13.

Instruction Summary

Insruction	Reservation Station	Execution Unit	Cycle					Write dest
			Issue	Ex Start	Ex End	Memory	CDB	
L.D F6,32(R2)								
L.D. F2,44(R3)								
MUL.D F0,F2,F4								
SUB.D F8,F2,F6								
DIV.D F10,F0,F6								
ADD.D F6,F8,F2								

Reservation Stations

Name	Busy	Op	Vj	Vk	Qj	Qk	A
Load1							
Load2							
Add1							
Add2							
Add3							
Mult1							
Mult2							

Register Status

F0	F2	F4	F6	F8	F10	F12	F14