

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1			
$F2 \leftarrow F0/F3$	FP Divider				
$F6 \leftarrow F0 * F6$	FP Mult				
$F2 \leftarrow F4 + F8$	FP Adder2				
$F4 \leftarrow F12 - F10$	FP Adder1				

F2 can't read F0 yet

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2		
$F2 \leftarrow F0/F3$	FP Divider	2			
$F6 \leftarrow F0 * F6$	FP Mult				
$F2 \leftarrow F4 + F8$	FP Adder2				
$F4 \leftarrow F12 - F10$	FP Adder1				

F2 can't read F0 yet, have to wait to issue

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2	3	
$F2 \leftarrow F0/F3$	FP Divider	2			
$F6 \leftarrow F0 * F6$	FP Mult	3			
$F2 \leftarrow F4 + F8$	FP Adder2				

F4 \leftarrow F12 - F10	FP Adder1				
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F2 and F6 can't read F0 yet

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
F0 \leftarrow F0 + 20	FP Adder1	1	2	3	4
F2 \leftarrow F0/F3	FP Divider	2			
F6 \leftarrow F0*F6	FP Mult	3			
F2 \leftarrow F4 + F8	FP Adder2	4			
F4 \leftarrow F12 - F10	FP Adder1				

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
F0 \leftarrow F0 + 20	FP Adder1	1	2	3	4
F2 \leftarrow F0/F3	FP Divider	2	5		
F6 \leftarrow F0*F6	FP Mult	3	5		
F2 \leftarrow F4 + F8	FP Adder2	4			
F4 \leftarrow F12 - F10	FP Adder1	5			

Adder2 has to wait for divider to finish

Last operation can start because adder1 is available

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2	3	4
$F2 \leftarrow F0/F3$	FP Divider	2	5	6	
$F6 \leftarrow F0 * F6$	FP Mult	3	5	6	
$F2 \leftarrow F4 + F8$	FP Adder2	4			
$F4 \leftarrow F12 - F10$	FP Adder1	5	6		

Adder2 still waiting for F2

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2	3	4
$F2 \leftarrow F0/F3$	FP Divider	2	5	6	7
$F6 \leftarrow F0 * F6$	FP Mult	3	5	6	7
$F2 \leftarrow F4 + F8$	FP Adder2	4	7		
$F4 \leftarrow F12 - F10$	FP Adder1	5	6	7	

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2	3	4
$F2 \leftarrow F0/F3$	FP Divider	2	5	6	7
$F6 \leftarrow F0 * F6$	FP Mult	3	5	6	7
$F2 \leftarrow F4 + F8$	FP Adder2	4	7	8	
$F4 \leftarrow F12 - F10$	FP Adder1	5	6	7	8

Instruction	Functional Unit	Issue	Dispatch	Execution	Write Result
$F0 \leftarrow F0 + 20$	FP Adder1	1	2	3	4
$F2 \leftarrow F0/F3$	FP Divider	2	5	6	7
$F6 \leftarrow F0 * F6$	FP Mult	3	5	6	7
$F2 \leftarrow F4 + F8$	FP Adder2	4	7	8	
$F4 \leftarrow F12 - F10$	FP Adder1	5	6	7	8