Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☐	☐
2> LDURD D2, [X3, #44]		☐	☐	☐
3> FMULD D0, D2, D4		☐	☐	☐
4> FSUBD D8, D2, D6		☐	☐	☐
5> FDIVD D0, D0, D6		☐	☐	☐
6> FADDD D6, D8, D2		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations						
	Busy	Op	Vj	Vk	Qj	Qk	A
laod 1	☐	load	[x2]	32	0	0	
load 2	☐						
load 3	☐						
store 1	☐						
store 2	☐						
store 3	☐						
FP alu 1	☐						
FP alu 2	☐						
FP alu 3	☐						
FP mult 1	☐						
FP mult 2	☐						
	☐						

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi							load 1		
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									

Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☐	☐
2> LDURD D2, [X3, #44]		☑	☐	☐
3> FMULD D0, D2, D4		☐	☐	☐
4> FSUBD D8, D2, D6		☐	☐	☐
5> FDIVD D0, D0, D6		☐	☐	☐
6> FADDD D6, D8, D2		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations							
	Busy	Op	Vj	Vk	Qj	Qk	A	
laod 1	☐	load	[x2]	32	0	0	[x2] + 32	calcular esta adddres toma un clock completo
load 2	☐	laod	[x3]	44	0	0		
load 3	☐							
store 1	☐							
store 2	☐							
store 3	☐							
FP alu 1	☐							
FP alu 2	☐							
FP alu 3	☐							
FP mult 1	☐							
FP mult 2	☐							
	☐							

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi			load 2				load 1		
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									

Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☑	☐
2> LDURD D2, [X3, #44]		☑	☐	☐
3> FMULD D0, D2, D4		☑	☐	☐
4> FSUBD D8, D2, D6		☐	☐	☐
5> FDIVD D0, D0, D6		☐	☐	☐
6> FADDD D6, D8, D2		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations							
	Busy	Op	Vj	Vk	Qj	Qk	A	
laod 1	☑	load	[x2]	32	0	0	[x2] + 32	para este clock la addres ya esta calculada
load 2	☐	laod	[x3]	44	0	0	[x3]+44	en este clock calculo la addr
load 3	☐							
store 1	☐							
store 2	☐							
store 3	☐							
FP alu 1	☐							
FP alu 2	☐							
FP alu 3	☐							
FP mult 1	☐	mult	-	[D4]	load 2	0	-	
FP mult 2	☐							
	☐							

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi	FP mult 1		load 2				load 1		
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									

Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☑	☑
2> LDURD D2, [X3, #44]		☑	☑	☐
3> FMULD D0, D2, D4		☑	☐	☐
4> FSUBD D8, D2, D6		☑	☐	☐
5> FDIVD D0, D0, D6		☐	☐	☐
6> FADDD D6, D8, D2		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations							
	Busy	Op	Vj	Vk	Qj	Qk	A	
laod 1	☐							
load 2	☑	laod	[x3]	44	0	0	[x3]+44	ya esta calculada la addr
load 3	☐							
store 1	☐							
store 2	☐							
store 3	☐							
FP alu 1	☐	sub		[D6]	load 2	0		
FP alu 2	☐							
FP alu 3	☐							
FP mult 1	☐	mult	-	[D4]	load 2	0	-	
FP mult 2	☐							
	☐							

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi	FP mult 1		load 2						FP alu 1
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									

Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☑	☑
2> LDURD D2, [X3, #44]		☑	☑	☑
3> FMULD D0, D2, D4		☑	☐	☐
4> FSUBD D8, D2, D6		☑	☐	☐
5> FDIVD D0, D0, D6		☑	☐	☐
6> FADDD D6, D8, D2		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations							
	Busy	Op	Vj	Vk	Qj	Qk	A	
laod 1	☐							
load 2	☐							esta escribiendo
load 3	☐							
store 1	☐							
store 2	☐							
store 3	☐							
FP alu 1	☐	sub	[D2]	[D6]	0	0		
FP alu 2	☐							
FP alu 3	☐							
FP mult 1	☐	mult	[D2]	[D4]	0	0	-	
FP mult 2	☐	div		[D6]	FP mult 1	0		
	☐							

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi	FP mult 2								FP alu 1
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									

Instruction	Iteration	Instruction status		
		Issue	Execute	Write result
1> LDURD D6, [X2, #32]		☑	☑	☑
2> LDURD D2, [X3, #44]		☑	☑	☑
3> FMULD D0, D2, D4		☑	☑	☐
4> FSUBD D8, D2, D6		☑	☑	☐
5> FDIVD D0, D0, D6		☑	☐	☐
6> FADDD D6, D8, D2		☑	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐
		☐	☐	☐

Hardware
Issue = 1 instrucción
Load = 6 RS / 1 clk
Store = 6 RS / 1 clk
Suma punto flotante = 3 RS / 2 clk
Multiplicación punto flotante = 2 RS / 6 clk

Name	Reservation stations							
	Busy	Op	Vj	Vk	Qj	Qk	A	
laod 1	☐							
load 2	☐							escribio
load 3	☐							
store 1	☐							
store 2	☐							
store 3	☐							
FP alu 1	☑	sub	[D2]	[D6]	0	0		
FP alu 2	☐	add		[D2]	FP alu 1	0		
FP alu 3	☐							
FP mult 1	☑	mult	[D2]	[D4]	0	0	-	
FP mult 2	☐	div		[D6]	FP mult 1	0		
	☐							

Register Status									
	D0	D1	D2	D3	D4	D5	D6	D7	D8
Qi	FP mult 2						FP alu 2		FP alu 1
	X0	X1	X2	X3	X4	X5	X6	X7	X8
Qi									