Left diagram — Single thread execution (branch mispredict)

Time (t+...)

	0	1	2	3	4	5	6	7	8	9
cmp r0, r1	F	D	E	M	W					
beq end		F	D	E	M	W				
add r1, r1, r0			F	D	E	M	W			
mov r1, 31				F	D	E	M	W		
blt less					F	D	E	M	W	
sub r0, r0, r1						F	D	E	M	W

Branch Resolved

Pipeline Flush

Branch Prediction = Taken

Re-Fetch Correct Instruction

Single thread execution (branch mispredict)

Right diagram — Thread Interleaved execution (thread 0)

Time (t+...)

	0	5	10	15	20	25
cmp r0, r1	cmp					
beq end		beq				
blt less			blt			
sub r0, r0, r1				sub		
b gcd						b

Thread Interleaved execution (thread 0)