

Transaction scheduling

Francesco Di Giacomo, Ahmad Omar

Exercise 1: Given the following interleaved execution of transactions, point out possible conflicts (name at least one) and give an equivalent strict 2PL scheduling.

T1	T2
	R(A)
R(A)	
R(B)	
	R(B)
	W(A)
Commit	Commit

Exercise 2: Given the following interleaved execution of transactions, point out possible conflicts (name at least one) and give an equivalent strict 2PL scheduling.

T1	T2	T3
R(A)		
	W(A)	
		R(A)
		R(B)
W(B)		
		Commit
W(A)		
Commit	Commit	

Exercise 3: Given the following interleaved execution of transactions, point out possible conflicts (name at least one) and give an equivalent strict 2PL scheduling.

T1	T2	T3
R(A)		
	R(C)	
		R(C)
		W(C)
	Commit	
W(A)		
R(B)		
		R(B)
		X(B)
Commit		Commit

Exercise 4: Given the following interleaved execution of transactions, point out possible conflicts (name at least one) and give an equivalent strict 2PL scheduling.

T1	T2	T3	T4
R(A)			
W(A)			
	R(B)		
	R(A)		
		W(C)	
			R(A)
			W(C)
W(A)			
Commit			
	R(C)		
		Commit	
	Commit		Commit