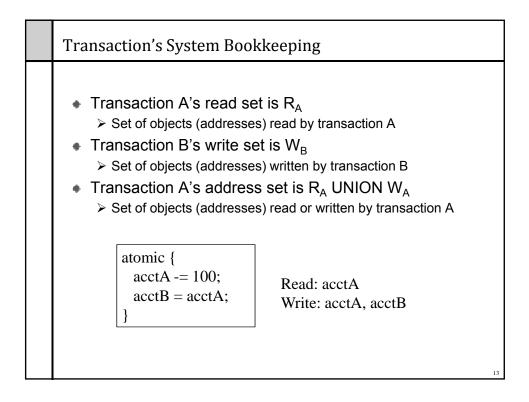
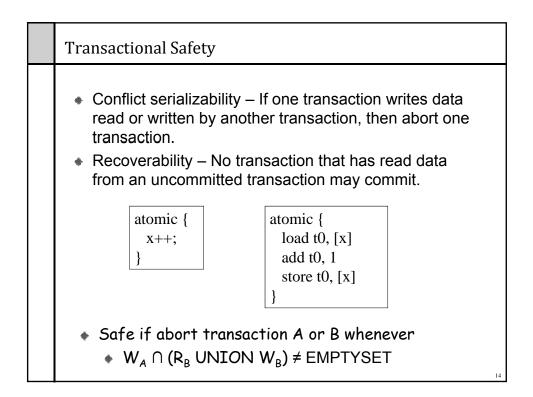
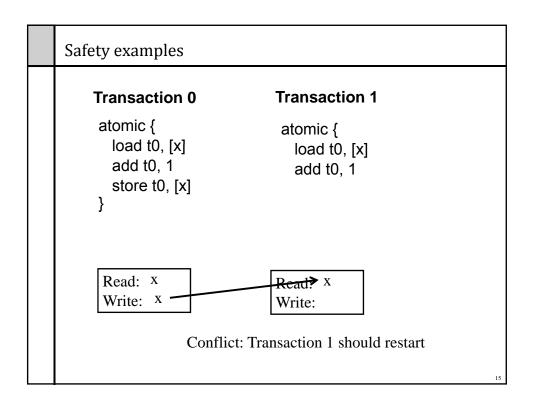
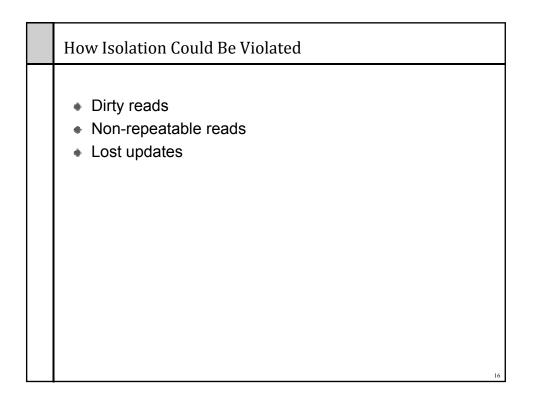


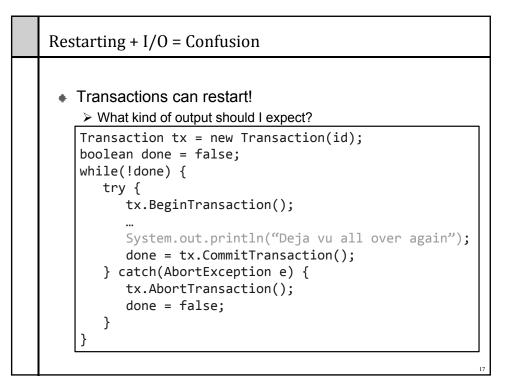
Concrete Syntax for Transactions
<pre>* The concrete syntax of JDASTM.  Transaction tx = new Transaction(id); boolean done = false; while(!done) {     try {         tx.BeginTransaction();         // party on my data structure!         done = tx.CommitTransaction();</pre>
<pre>} catch(AbortException e) {     tx.AbortTransaction();     done = false;     } }</pre>

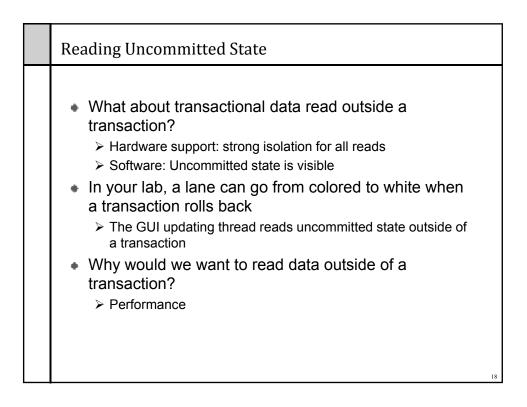


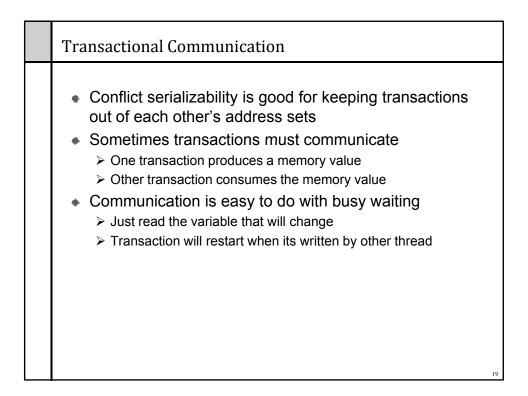




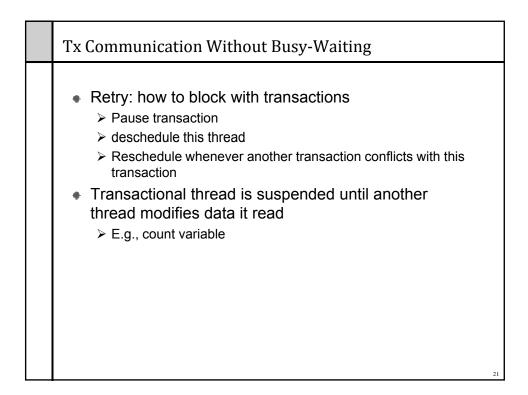




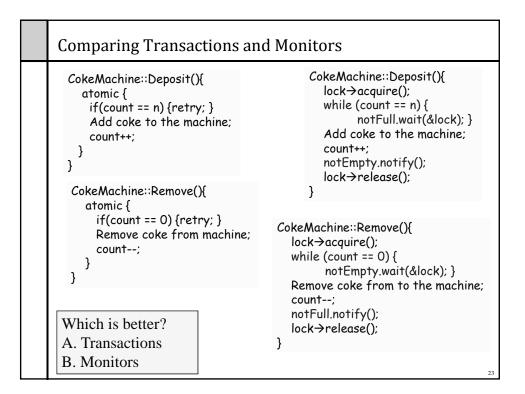


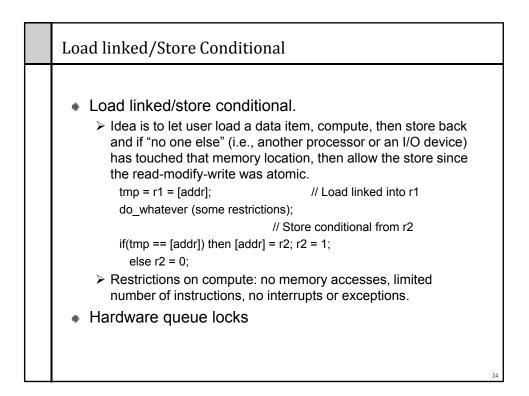


Communicating Transaction Class CokeMachine{ int count = 0; }	ons	
CokeMachine::Deposit(){ atomic { while (count == n) ; Add coke to the machine; count++; } }	CokeMachine::Remove(){ atomic { while (count == 0) ; Remove coke from machine; count; } }	
<ul> <li>Transactions busy-wait for each other.</li> <li>The variable count is in the read set, so any write to count will restart the transaction</li> </ul>		



Retry: Communication Wi Class CokeMachine{ int count = 0; }	thout Busy-Wait
CokeMachine::Deposit(){ atomic { if(count == n) {retry; } Add coke to the machine; count++; } }	CokeMachine::Remove(){ atomic { if(count == 0) { retry; } Remove coke from machine; count; } }
Scheduler and runtime cooperate to monitor address sets of transactions that are descheduled	





## Load linked/Store Conditional

- All of these events, if they happen between the load linked and the store conditional will cause the store conditional to fail. EXCEPT which?
  - > A. Breakpoint instruction
  - ➢ B. Branch instruction
  - > C. External write to loaded memory address
  - > D. Return from exception instruction