Atomic Action Isolated JetBlue

Multi site Atomicity Travel
Site

Example 1

Example 2

Example 2

Example 3

Example 2

Example 3

Example 4

Example 2

Example 4

Example 2

Example 4

Example 4

Example 2

Example 4

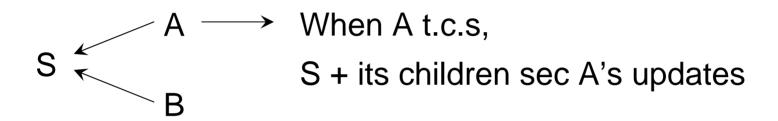
Nested Atomic Actions

Failure — Atomicity Recov.: Never modify only copy

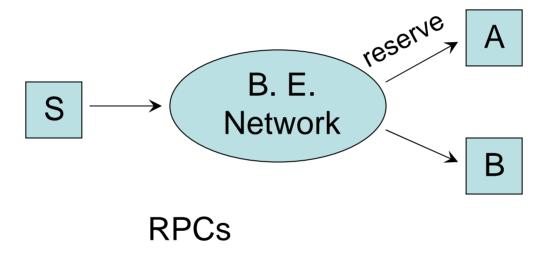
Isolation → Serializability

Two-phase locking Locks

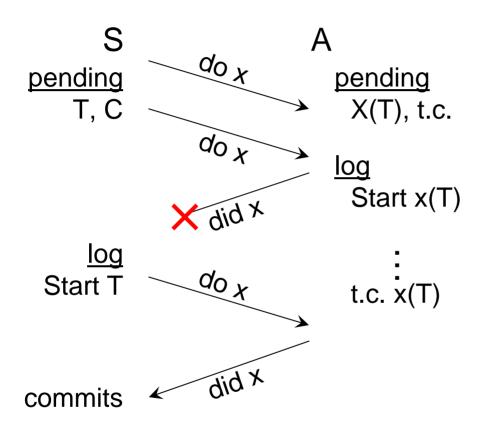
What if A, B conflict?



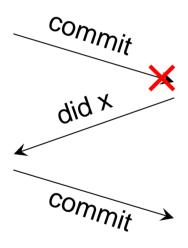
Multi Case



Two-phase commit



Phase 2



```
S crashes
before C
UNDO T, remembers T aborted
after C
REDO T, remembers T committed
A crashes
before T.C.
after T.C. → up to S
```

Unfinished!!

Do A, B make results visible at the same time?

No. 2 generals problem