

Concurrent Events

- **A pair of concurrent events doesn't have a causal path from one event to another (either way, in the pair)**
- **Lamport timestamps not guaranteed to be ordered or unequal for concurrent events**
- **Ok, since concurrent events are not causality related!**
- **Remember**
 - $E1 \rightarrow E2 \Rightarrow \text{timestamp}(E1) < \text{timestamp}(E2)$, **BUT**
 - $\text{timestamp}(E1) < \text{timestamp}(E2) \Rightarrow$
 $\{E1 \rightarrow E2\}$ OR $\{E1 \text{ and } E2$
 $\text{concurrent}\}$