

# Using Global Snapshot Algorithm

- **Chandy-Lamport algorithm can be used to detect global properties that are *stable***
  - Stable = once true, stays true forever afterwards
- **Stable Liveness examples**
  - Computation has terminated
- **Stable Non-Safety examples**
  - There is a deadlock
  - An object is orphaned (no pointers point to it)
- **All stable global properties can be detected using the Chandy-Lamport algorithm**
  - **Due to its causal correctness**