Chandy-Lamport Global Snapshot algorithm creates a consistent cut

- **if e_j → <P*j* records its state>, then it must be true that e_i → <P*i* records its state>.**
  - By contradiction, suppose e_j → <P*j* records its state> and <P*i* records its state> → e_i
  - Consider the path of app messages (through other processes) that go from e_i → e_j
  - Due to FIFO ordering, markers on each link in above path will precede regular app messages
  - Thus, since <P*i* records its state> → e_i , it must be true that P*j* received a marker before e_j
  - Thus e_j is not in the cut => contradiction