

Chandy-Lamport Global Snapshot algorithm creates a consistent cut

Let's quickly look at the proof

- Let e_i and e_j be events occurring at P_i and P_j , respectively such that
 - $e_i \rightarrow e_j$ (e_i happens before e_j)
- The snapshot algorithm ensures that
 - if e_j is in the cut then e_i is also in the cut.
- That is: if $e_j \rightarrow \langle P_j \text{ records its state} \rangle$, then
 - it must be true that $e_i \rightarrow \langle P_i \text{ records its state} \rangle$.