## Non Token Based

II RICART AGRAWALA METHOD

- optimization of Lamport's that dispenses with RELEASE messages by merging them with REPLY messages.
- Hi: 1 ≤ i ≤ N :: Ri = fs, ,s2, ... Sn}

The Algo

Requesting the CS

- 1. When a site Si wants to enter CS, it sends a timestamped REQUEST message to all the sites un its request set.
- 2. When site Sj receives a REQUEST message from site Si, it sends a REPLY message to site Si if site Sj is neither requesting non executing the CS or if site Sj is requesting & Si's requests timestamp is smaller than site Sj's own request's timestamp. The request is deferred otherwise.

Executing the CS

3. Site si enters the cs after it has received REPLY messages from all the sites in its request set.

Releasing the CS

4. When site S: exits the CS, it sends REPLY messages to all the deferred requests.

A site's REPLY messages are blocked only by sites that are requesting the CS with higher priority. Thus, when a site sends out REPLY messages to all the deferred requests, the site with the next highest priority request receives the last needed REPLY message e enters the cs.