

# Performance: Ricart-Agrawala's Algorithm

- Bandwidth:  $2*(N-1)$  messages per enter() operation
  - $N-1$  unicasts for the multicast request +  $N-1$  replies
  - $N$  messages if the underlying network supports multicast (1 multicast +  $N-1$  unicast replies)
  - $N-1$  unicast messages per exit operation
    - 1 multicast if the underlying network supports multicast
- Client delay: one round-trip time
- Synchronization delay: one message transmission time