

8.1 Total-Order Broadcast using Consensus

(a) Consensus does not sort *deterministically* before *tot-delivering*

The problem with not sorting deterministically is that every process which calls the consensus might get a different value and therefore the processes cannot agree on which value is the last in the sequence and should be returned.

(b) Modifying algorithm s.t. we do not require the sorting of decided payload messages

One can store the duplet of value and timestamp such

8.2 Atomic Register as a Replicated State Machine

8.3 Replicated Register with Local Read