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— MODULE ReliableCausalNetwork -
Extends CausalNetwork, Message
RCvars \stackrel{\triangle}{=} \langle incoming, lmsg, dmsg, vc \rangle
RCInit \stackrel{\Delta}{=} \land CInit
                \land MInit
RCBroadcast(r, m) \triangleq \land CBroadcast(r, m)
                               \land MBroadcast
RCDeliver(r) \triangleq
     \land incoming[r] \neq EmptyBag
     \wedge \exists m \in BagToSet(incoming[r]):
           \land \neg IfDeliverMsg(m, r)
           \land \forall s \in Replica :
                \forall m.vc[s] \leq vc[r][s]
                 \vee\: s = m.r
           \wedge \ m.vc[m.r] = vc[r][m.r] + 1
           \land vc' = [vc \text{ EXCEPT } ! [r][m.r] = @ + 1]
           \wedge lmsg' = m
           \land MDeliver(r, m)
     \land UNCHANGED \langle incoming \rangle
RCDo \triangleq \text{UNCHANGED } RCvars
```

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