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- Module OpSEC -
EXTENDS SEC
VARIABLES buset buset[r]: the buffer of local updates made by r \in Replica since the last broadcast
OpSECInit \triangleq
     \land SECInit
     \land buset = [r \in Replica \mapsto \{\}]
OpSECDo(r) \triangleq
     \wedge SECDo(r)
     \land \ buset' = [buset \ \texttt{EXCEPT} \ ![r] = @ \cup \{[r \mapsto r, \ seq \mapsto seq[r]]\}] \quad \texttt{collect a new update}
OpSECSend(r) \triangleq
     \land SECSend(r)
     \land uincoming' = [x \in Replica \mapsto
                                                      broadcast buset[r]
                  IF x = r THEN uincoming[x]
                              \texttt{ELSE} \ \ uincoming[x] \cup \{[\mathit{aid} \mapsto [r \mapsto r, \mathit{seq} \mapsto \mathit{seq}[r]], \mathit{update} \mapsto \mathit{buset}[r]]\}]
     \land buset' = [buset \ EXCEPT \ ![r] = \{\}] \ clear \ buset[r]
OpSECDeliver(r, aid) \triangleq
     \land SECDeliver(r, aid)
     \land UNCHANGED \langle buset \rangle
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