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— MODULE OpCorrectness -
{\tt EXTENDS}\ Correctness
VARIABLES buset buset[r]: the buffer of local updates generated by r \in Replica since the last broadcast
OpCInit \triangleq
     \wedge CInit
     \land buset = [r \in Replica \mapsto \{\}]
OpCDo(r) \triangleq
     \wedge CDo(r)
     \land buset' = [buset \ \texttt{EXCEPT} \ ![r] = @ \cup \{[r \mapsto r, \ seq \mapsto seq[r]]\}] \quad \texttt{collect a new update}
OpCSend(r) \triangleq
            CSend(r)
     \wedge
            uincoming' = [x \in Replica \mapsto
     \wedge
                                                          broadcast buset[r]
                      IF x = r THEN uincoming[x]
                                 ELSE uincoming[x] \cup \{[aid \mapsto [r \mapsto r, seq \mapsto seq[r]], update \mapsto buset[r]]\}\}
            buset' = [buset \ EXCEPT \ ![r] = \{\}] clear buset[r]
OpCDeliver(r, aid) \triangleq
     \land CDeliver(r, aid)
     \land UNCHANGED \langle buset \rangle
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