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— Module BasicNetwork -
EXTENDS Bags, SystemModel
Variables lmsg
Nvars \stackrel{\triangle}{=} \langle incoming, \, lmsg \rangle
NInit \stackrel{\triangle}{=}
     \land incoming = [r \in Replica \mapsto EmptyBag]
    \land lmsg = NotMsg
NBroadcast(r, m) \triangleq
     \land incoming' = [x \in Replica \mapsto
                            If x = r
                             THEN incoming[x]
                             ELSE incoming[x] \oplus SetToBag(\{m\})]
     \land UNCHANGED \langle lmsg \rangle
NDeliver(r) \triangleq
     \land incoming[r] \neq EmptyBag
     \wedge \exists m \in BagToSet(incoming[r]):
          \wedge lmsg' = m
     \land UNCHANGED \langle incoming \rangle
NDo \stackrel{\triangle}{=} \text{UNCHANGED } Nvars
```

- * Last modified Sun Jun 09 20:28:01 CST 2019 by xhdn
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