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— Module EagerVotingStuttering -
EXTENDS EagerVoting
top \stackrel{\triangle}{=} [top \mapsto "top"]
VARIABLES s
vars \triangleq \langle maxBal, votes \rangle
InitS \stackrel{\triangle}{=} Init \wedge (s = top)
IncreaseMaxBalStutter(a, b) \stackrel{\triangle}{=}
If s = top
THEN \land IncreaseMaxBal(a, b)
\wedge s' = s
ELSE \land UNCHANGED vars
\wedge s' = s
VoteForPostStutter(a, b, v) \triangleq
If s = top
THEN \wedge VoteFor(a, b, v)
\land s' = \text{IF } b \neq maxBal'[a]
THEN [acc \mapsto a, val \mapsto b]
ELSE top
 ELSE \land UNCHANGED vars
\wedge s' = top
NextS \triangleq
\exists a \in Acceptor, b \in Ballot:
\vee IncreaseMaxBalStutter(a, b)
\vee \exists v \in Value :
VoteForPostStutter(a, b, v)
SpecS \ \stackrel{\triangle}{=} \ InitS \land \Box [NextS]_{\langle votes, \ maxBal, \ s \rangle}
V \stackrel{\Delta}{=} \text{INSTANCE } Voting \text{ WITH } votes \leftarrow votes,
maxBal \leftarrow \text{if } s = top
THEN maxBal
ELSE [a \in Acceptor \mapsto
If a = s.acc
THEN s.val
ELSE maxBal[a]
Theorem Spec \Rightarrow V!Spec
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