

```

1  ┌────────────────────────── MODULE MCConsensus ───────────────────┐
2  EXTENDS Consensus

    Checking
    
$$Inv \wedge [Next]_{-chosen} \Rightarrow Inv'$$

    which is equivalent to checking
    
$$Inv \wedge \Box[Next]_{-chosen} \Rightarrow \Box Inv$$

    which asserts that Inv is an invariant of the spec
    
$$Inv \wedge \Box[Next]_{-chosen}$$

17  $ITypeOK \triangleq chosen \in \text{SUBSET } Value$ 
19  $IInv \triangleq$ 
20    $\wedge ITypeOK$ 
    $\wedge Cardinality(chosen) \leq 1$ 
22  $ISpec \triangleq IInv \wedge \Box[Next]_{chosen}$ 
23 └──────────────────────────────────────────────────────────────────┘

```