

MODULE <i>DK_RealTime</i>
EXTENDS <i>Naturals</i>
VARIABLE <i>now</i>
$RTTypeInv \triangleq now \in Nat$
$RTInit \triangleq now = 0$
$Tick \triangleq now' = now + 1$
$RTSpec \triangleq RTInit \wedge \Box[Tick]_{now} \wedge WF_{now}(Tick)$
THEOREM $RTSpec \Rightarrow \Box RTTypeInv$