

MODULE <i>HourClock</i>
EXTENDS <i>Naturals</i> VARIABLE <i>hr</i> $HCini \triangleq hr \in (1 \dots 12)$ $HCnext \triangleq hr' = \text{IF } hr \neq 12 \text{ THEN } hr + 1 \text{ ELSE } 1$ $HC \triangleq HCini \wedge \Box[HCnext]_{hr}$ Short form $\Box([HCnext] V \text{ } hr' = hr)$
THEOREM $HC \Rightarrow \Box HCini$