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MODULE *HourClock*

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EXTENDS *Integers*  
VARIABLE *hr, tmp*  
*TmpData*  $\triangleq$  ( - 273 .. 1000)

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*HCini*  $\triangleq$   $\wedge hr \in (1 \dots 12)$   
 $\wedge tmp \in TmpData$

*HCnext*  $\triangleq$   $\wedge hr' = \text{IF } hr \neq 12 \text{ THEN } hr + 1 \text{ ELSE } 1$   
 $\wedge tmp' \in TmpData$

*HC*  $\triangleq HCini \wedge \Box[HCnext]_{\langle tmp, hr \rangle}$

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THEOREM *HC*  $\Rightarrow \Box HCini$

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\\* Modification History  
\\* Last modified *Mon Feb 12 15:44:15 CET 2018* by *jacob*  
\\* Created *Mon Feb 05 14:25:15 CET 2018* by *jacob*