
MODULE *HourClock2*

This module contains the definition of the specification *HC2* from the book.

EXTENDS *HourClock*

This statement includes in the current module all the definitions and declarations from module *HourClock*, including the definitions of $+$ and $\%$ from the Naturals module and the declaration of the variable *hr*.

$$\begin{aligned} HCnext2 &\triangleq hr' = (hr \% 12) + 1 \\ HC2 &\triangleq HCini \wedge \Box[HCnext2]_{hr} \end{aligned}$$

THEOREM $HC \equiv HC2$

This theorem asserts that formulas *HC* and *HC2* are equivalent. The symbol \equiv , which can also be typed as \equiv , is typeset as an equivalence symbol (a three-lined equals sign).
