

498 Let a and b be boundary variables; assignment to them takes time 0 . Let assignment to interactive variables take time 1 . Let t be extended natural time. Define

wait $w = t := t + w$

Simplify

new $x: time \rightarrow nat \cdot (x := 1. x := 2) \parallel (a := 3. \mathbf{wait} 1. b := a + x. \mathbf{wait} 1. a := b + x)$

After trying the question, scroll down to the solution.

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$$a'=6 \wedge b'=4$$