

— MODULE *Add* —

This module defines the abstract program *Add* of Section 6.1 in the book “A Science of Concurrent Program” by *Leslie Lamport*. It leaves the values of some variables unspecified some states of a behavior. The module is instantiated by the module *AddSeq*.

EXTENDS *Integers*

VARIABLES x, y, z, end

$vA \triangleq \langle x, y, z, end \rangle$

$InitA \triangleq \begin{aligned} &\wedge end = \text{FALSE} \\ &\wedge x \in Nat \\ &\wedge y \in Nat \end{aligned}$

$NextA \triangleq \begin{aligned} &\wedge \neg end \\ &\wedge end' = \text{TRUE} \\ &\wedge x' \in Nat \\ &\wedge y' \in Nat \\ &\wedge z' = x + y \end{aligned}$

$Add \triangleq InitA \wedge \Box[NextA]_{vA} \wedge WF_{vA}(NextA)$

\ * Modification History

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