

Answer

One example is a version of the big-step bakery algorithm in which the *enter* step is replaced by one that sets $num[self]$ to one plus the maximum of all $num[p]$ with p in $Procs$, where the invariant is

$$\forall p \in Procs : num[p] \in Nat$$

The invariant will be violated for any model with a finite set substituted for Nat .

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