

Procedure: Bound(ρ)

Input: a transition ρ

Output: a bound for transition ρ

Global: transition system \mathcal{T} , lexicographic ranking function l

$x :=$ ranking function component of ρ in l ;

$b := \text{InitialValue}(x)$;

foreach *transition* $\rho' \in \mathcal{T}$ *with* $\rho' \not\leq x' \leq x$ **do**

 Let $k \in \mathbb{N}$ s.t. $x' \leq x + k$ in ρ' ;
 $b := b + \text{Bound}(\rho') \cdot k$;

Let $k \in \mathbb{N}$ s.t. $x' \leq x - k$ in ρ ;

return $b = b/k$;