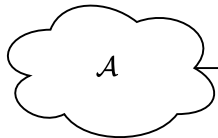
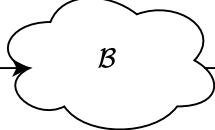


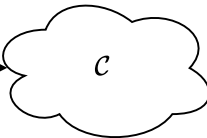
Initial condition



Reachable set at τ



Reachable set at 2τ



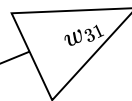
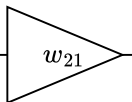
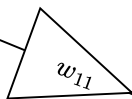
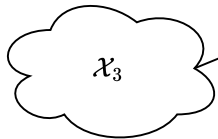
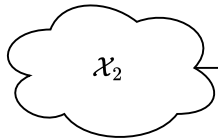
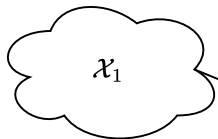
Simulation on τ

Simulation on τ

$\mathcal{A} = \{x_0 + x_1 \varepsilon_1 \mid \varepsilon_1 \in [-1, 1]\}$

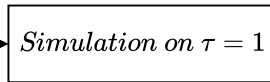
$\mathcal{B} = \{x_0 + \dots + x_i \varepsilon_k \mid \varepsilon_i \in [-1, 1], i \in \{0, 1, \dots, k\}\}$

$\mathcal{C} = \{x_0 + \dots + x_n \varepsilon_f \mid \varepsilon_i \in [-1, 1], i \in \{0, 1, \dots, k, \dots, f\}\}$

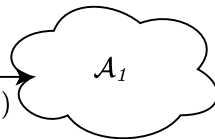


Computing the reachable set of the activation function

u_1



$f(u_1)$



$\mathcal{X}_1, \mathcal{X}_2, \mathcal{X}_3$ and \mathcal{A}_1 are affine forms and outer enclosure of true reachable sets