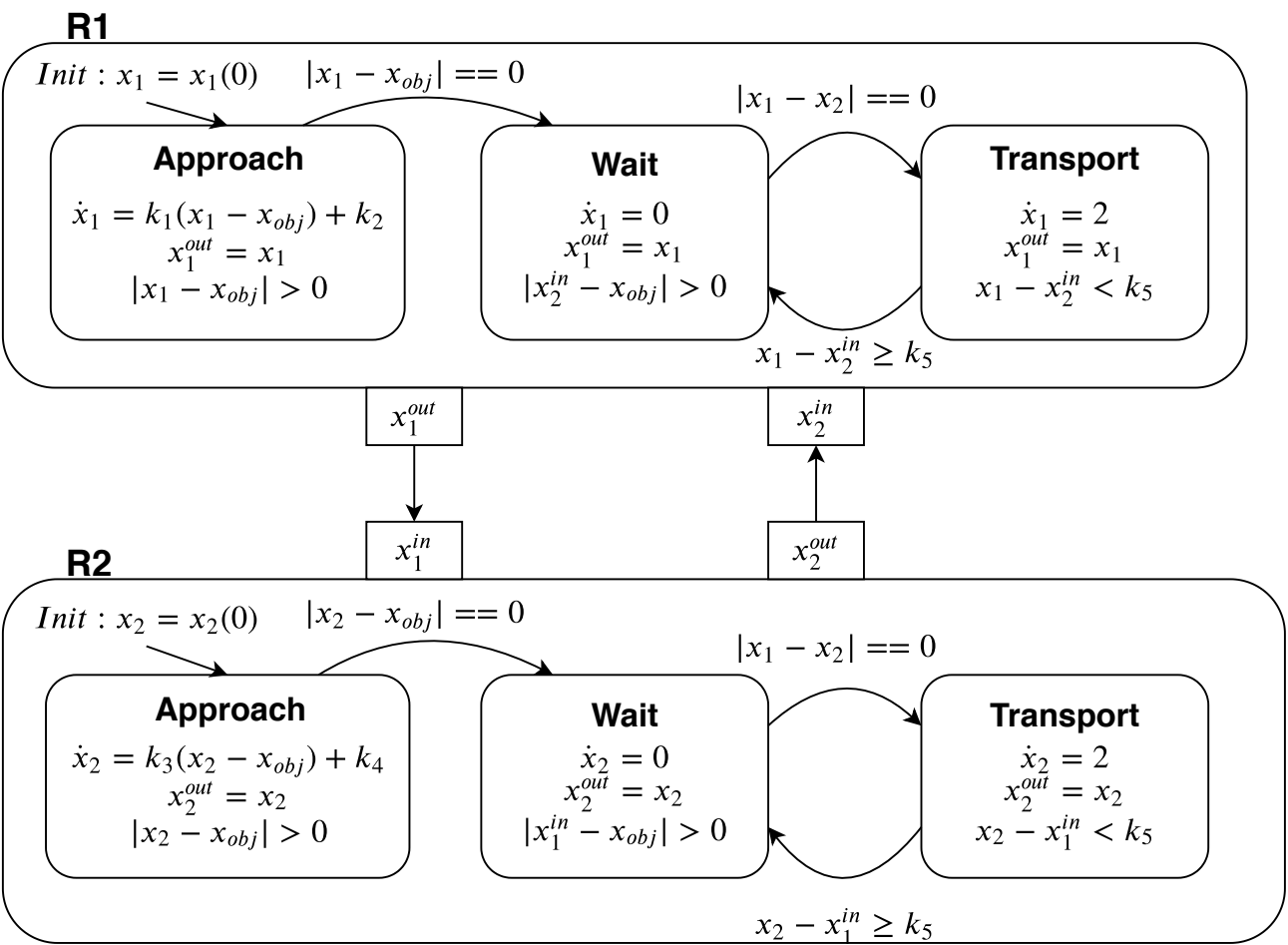
R1
$Init : x_1 = x_1(0)$
$|x_1 - x_{obj}| == 0$
$|x_1 - x_2| == 0$
Approach
$\dot{x}_1 = k_1(x_1 - x_{obj}) + k_2$
$x_1^{out} = x_1$
$|x_1 - x_{obj}| > 0$
Wait
$\dot{x}_1 = 0$
$x_1^{out} = x_1$
$|x_2^{in} - x_{obj}| > 0$
Transport
$\dot{x}_1 = 2$
$x_1^{out} = x_1$
$x_1 - x_2^{in} < k_5$
$x_1 - x_2^{in} \geq k_5$
x_1^{out}
x_2^{in}
x_1^{in}
x_2^{out}
R2
$Init : x_2 = x_2(0)$
$|x_2 - x_{obj}| == 0$
$|x_1 - x_2| == 0$
Approach
$\dot{x}_2 = k_3(x_2 - x_{obj}) + k_4$
$x_2^{out} = x_2$
$|x_2 - x_{obj}| > 0$
Wait
$\dot{x}_2 = 0$
$x_2^{out} = x_2$
$|x_1^{in} - x_{obj}| > 0$
Transport
$\dot{x}_2 = 2$
$x_2^{out} = x_2$
$x_2 - x_1^{in} < k_5$
$x_2 - x_1^{in} \geq k_5$