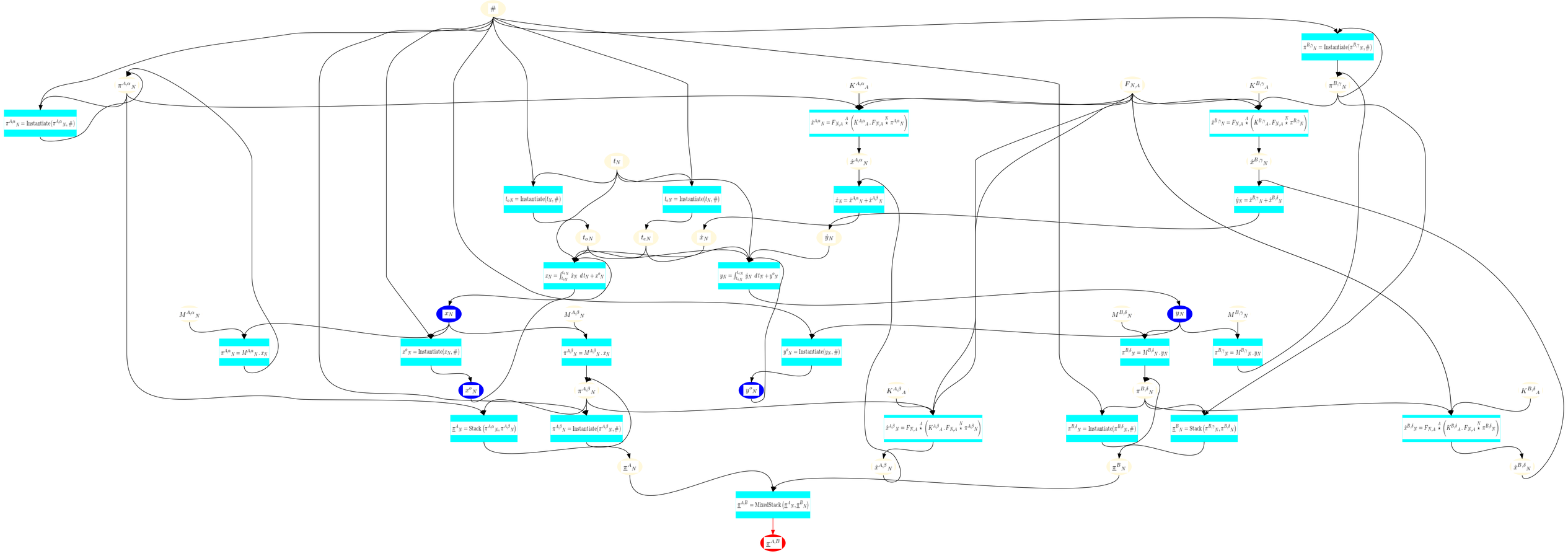
#
$\pi^{A,\alpha}{}_N$
$\pi^{A,\alpha}{}_N = \text{Instantiate}(\pi^{A,\alpha}{}_N, \#)$
$t_N$
$t_{oN} = \text{Instantiate}(t_N, \#)$
$t_{eN} = \text{Instantiate}(t_N, \#)$
$t_{oN}$
$t_{eN}$
$x_N = \int_{t_{oN}}^{t_{eN}} \dot{x}_N \, dt_N + x^o{}_N$
$x_N$
$M^{A,\alpha}{}_N$
$\pi^{A,\alpha}{}_N = M^{A,\alpha}{}_N \cdot x_N$
$x^o{}_N = \text{Instantiate}(x_N, \#)$
$x^o{}_N$
$M^{A,\beta}{}_N$
$\pi^{A,\beta}{}_N = M^{A,\beta}{}_N \cdot x_N$
$\pi^{A,\beta}{}_N$
$\underline{\pi}^A{}_N = \text{Stack}(\pi^{A,\alpha}{}_N, \pi^{A,\beta}{}_N)$
$\pi^{A,\beta}{}_N = \text{Instantiate}(\pi^{A,\beta}{}_N, \#)$
$\underline{\pi}^A{}_N$
$K^{A,\alpha}{}_A$
$\dot{x}^{A,\alpha}{}_N = F_{N,A} \overset{A}{\star} \left(K^{A,\alpha}{}_A \cdot F_{N,A} \overset{N}{\star} \pi^{A,\alpha}{}_N\right)$
$\dot{x}^{A,\alpha}{}_N$
$\dot{x}_N = \dot{x}^{A,\alpha}{}_N + \dot{x}^{A,\beta}{}_N$
$\dot{x}_N$
$\dot{y}_N$
$y_N = \int_{t_{oN}}^{t_{eN}} \dot{y}_N \, dt_N + y^o{}_N$
$y_N$
$y^o{}_N = \text{Instantiate}(y_N, \#)$
$y^o{}_N$
$K^{A,\beta}{}_A$
$\dot{x}^{A,\beta}{}_N = F_{N,A} \overset{A}{\star} \left(K^{A,\beta}{}_A \cdot F_{N,A} \overset{N}{\star} \pi^{A,\beta}{}_N\right)$
$\dot{x}^{A,\beta}{}_N$
$\underline{\pi}^{A,B}{}_N = \text{MixedStack}(\underline{\pi}^A{}_N, \underline{\pi}^B{}_N)$
$\underline{\pi}^{A,B}$
$F_{N,A}$
$K^{B,\gamma}{}_A$
$\dot{x}^{B,\gamma}{}_N = F_{N,A} \overset{A}{\star} \left(K^{B,\gamma}{}_A \cdot F_{N,A} \overset{N}{\star} \pi^{B,\gamma}{}_N\right)$
$\dot{x}^{B,\gamma}{}_N$
$\dot{y}_N = \dot{x}^{B,\gamma}{}_N + \dot{x}^{B,\delta}{}_N$
$\pi^{B,\gamma}{}_N = \text{Instantiate}(\pi^{B,\gamma}{}_N, \#)$
$\pi^{B,\gamma}{}_N$
$M^{B,\delta}{}_N$
$\pi^{B,\delta}{}_N = M^{B,\delta}{}_N \cdot y_N$
$\pi^{B,\delta}{}_N$
$M^{B,\gamma}{}_N$
$\pi^{B,\gamma}{}_N = M^{B,\gamma}{}_N \cdot y_N$
$\pi^{B,\delta}{}_N = \text{Instantiate}(\pi^{B,\delta}{}_N, \#)$
$\underline{\pi}^B{}_N = \text{Stack}(\pi^{B,\gamma}{}_N, \pi^{B,\delta}{}_N)$
$\underline{\pi}^B{}_N$
$K^{B,\delta}{}_A$
$\dot{x}^{B,\delta}{}_N = F_{N,A} \overset{A}{\star} \left(K^{B,\delta}{}_A \cdot F_{N,A} \overset{N}{\star} \pi^{B,\delta}{}_N\right)$
$\dot{x}^{B,\delta}{}_N$