## Equation assignment sequence for variable $\boldsymbol{x}$

no	var	equ	quations	token
19	18	_	$M^{A,\beta}{}_N$ :: port variable	
18	17	_	$M^{A,\alpha}_N$ :: port variable	
17	14	_	$K^{A,\beta}{}_A::$ port variable	
16	8	_	$F_{N,A}$ :: port variable	
15	36	_	$D_{N,A}$ :: port variable	
14	13	_	$K^{A,\alpha}{}_A :: $ port variable	
13	3	_	# :: port variable	
12	1	_	t:: port variable	
11	22	8	$\pi^{A,\beta}{}_N := M^{A,\beta}{}_N \cdot x_N$	
10	76	63	$u_A := \operatorname{Instantiate}(u_A, \#)$	
9	21	7	$\pi^{A,\alpha}{}_N := M^{A,\alpha}{}_N \cdot x_N$	
8	5	2	0 := Instantiate(#, #)	
7	26	12	$\hat{x}^{A,\beta}{}_{N} := F_{N,A} \stackrel{A}{\star} \left( K^{A,\beta}{}_{A} \cdot D_{N,A} \stackrel{N}{\star} \pi^{A,\beta}{}_{N} \right)$	
6	25	11	$\hat{x}^{A,\alpha}{}_{N} := F_{N,A} \stackrel{A}{\star} \left( u_{A} \cdot K^{A,\alpha}{}_{A} \cdot D_{N,A} \stackrel{N}{\star} \pi^{A,\alpha}{}_{N} \right)$	
5	7	4	$t_e := \operatorname{Instantiate}(t, \#)$	
4	6	3	$t_o := \text{Instantiate}(t, \#)$	
3	29	32	$\dot{x}_N := \operatorname{Instantiate}(\dot{x}_N, 0)$	
2	29	16	$\dot{x}_N := \hat{x}^{A,\alpha}{}_N + \hat{x}^{A,\beta}{}_N$	

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no	var	equ	quations	token
1	11	5	$x^o_N := \text{Instantiate}(x_N, \#)$	
0	9	20	$x_N := \int_{t_o}^{t_e} \dot{x}_N \ dt + x^o_N$	