

Equation assignment sequence for variable \hat{n}_{NS}^c

no	var	equ	quations	token
72	V ₁₄₇	-	$P_{NK} :: \text{port variable}$	
71	V ₁₅₅	-	$B :: \text{port variable}$	
70	V ₃₈	-	$K^o_K :: \text{port variable}$	
69	V ₃₃	-	$P_{K,NK} :: \text{port variable}$	
68	V ₁₅₈	-	$N_{K,KS} :: \text{port variable}$	
67	V ₉₁	-	$D_{NS,AS} :: \text{port variable}$	
66	V ₃₆	-	$P_{NS,KS} :: \text{port variable}$	
65	V ₃₅	-	$P_{N,NK} :: \text{port variable}$	
64	V ₁₂₇	-	$1_S :: \text{port variable}$	
63	V ₁₄	-	$S_N :: \text{port variable}$	
62	V ₂₄	-	$A^v :: \text{port variable}$	
61	V ₁₀	-	$r_{xN} :: \text{port variable}$	
60	V ₅	-	$t :: \text{port variable}$	
59	V ₄₀	-	$\lambda_S :: \text{port variable}$	
58	V ₈	-	$F_{N,A} :: \text{port variable}$	
57	V ₁₂	-	$r_{zN} :: \text{port variable}$	
56	V ₁₁	-	$r_{yN} :: \text{port variable}$	
55	V ₁₅	-	$V_N :: \text{port variable}$	
54	V ₁₃	-	$U_N :: \text{port variable}$	

Continued on next page

no	var	equ	quations	token
53	V ₉₀	-	$D_{N,A} :: \text{port variable}$	
52	V ₁	-	$\# :: \text{port variable}$	
51	V ₇₀	-	$F_{NS,AS} :: \text{port variable}$	
50	V ₆₇	E ₄₅	$c_{NS} := c_{NS}$	
49	V ₁₅₂	E ₁₂₄	$c^o_{NK,KS} := \text{Instantiate}(c_{NK,KS}, \#)$	
48	V ₁₅₁	E ₁₂₃	$c_{NK,KS} := P_{NK} \cdot \left(P_{NS,KS} \overset{NS}{\star} c_{NS} \right)$	
47	V ₅₂	E ₃₁	$k^d_{xNS} := (\mu_{NS})^{-1} \cdot \left(v_{xN} \odot \left((V_N)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}} \right) \right)$	
46	V ₆₂	E ₄₁	$E^a_{NK} := \text{Instantiate}(R \cdot T_{NK}, \#)$	
45	V ₆₀	E ₃₉	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
44	V ₁₅₇	E ₁₂₇	$R := A^v \cdot B$	
43	V ₁₅₃	E ₁₂₅	$x_{NK,KS} := (c^o_{NK,KS})^{-1} \cdot c_{NK,KS}$	
42	V ₂	E ₁	$1 := \text{Instantiate}(\#, \#)$	
41	V ₈₆	E ₆₃	$k^d_{xNS} := k^d_{xNS}$	
40	V ₆₃	E ₄₂	$K_{NK} := K^o_K \odot \exp((-E^a_{NK}) \cdot (R \cdot T_{NK})^{-1})$	
39	V ₁₆₀	E ₁₂₉	$\phi_{NK} := \prod_{KS} x_{NK,KS} \overset{NK,KS}{\star}$	
38	V ₁₅₉	E ₁₂₈	$N_{NK,KS} := P_{K,NK} \overset{K}{\star} N_{K,KS}$	
37	V ₁₇₁	E ₁₃₈	$s := 0.5 \cdot (1 + \text{sign}(t^o))$	
36	V ₉₃	E ₆₈	$\hat{n}^d_{AS} := A_{yzN} \odot (-k^d_{xNS}) \cdot D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
35	V ₁₆₃	E ₁₃₀	$\tilde{n}_{NS} := V_N \overset{N}{\star} \left(P_{N,NK} \overset{NK}{\star} \left((K_{NK} \cdot \phi_{NK}) \cdot \left(P_{NS,KS} \overset{KS}{\star} N_{NK,KS} \right) \right) \right)$	
34	V ₁₇₂	E ₁₃₉	$s := s$	

Continued on next page

no	var	equ	quations	token
33	V ₁₆₈	E ₁₃₄	$n_{tN} := 1_S \overset{S \in NS}{\star} n_{NS}$	
32	V ₁₆₅	E ₁₃₂	$boz_N := \text{Instantiate}(S_N, \#)$	
31	V ₄₁	E ₂₀	$\lambda_S := \lambda_S$	
30	V ₉₄	E ₆₉	$\hat{n}_{NS}^d := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^d$	
29	V ₁₆₄	E ₁₃₁	$\tilde{n}_{NS} := \tilde{n}_{NS}$	
28	V ₁₇₃	E ₁₄₁	$\hat{n}_{AS}^{c,controlled} := s . \hat{n}_{AS}^c$	
27	V ₁₈	E ₇	$T_N := \frac{\partial U_N}{\partial S_N}$	
26	V ₁₆₉	E ₁₃₅	$\xi_{NS} := (n_{tN})^{-1} \odot n_{NS}$	
25	V ₁₆₆	E ₁₃₃	$R_N := A^v . boz_N$	
24	V ₅₇	E ₃₆	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
23	V ₇	E ₅	$t^e := \text{Instantiate}(t, \#)$	
22	V ₆	E ₄	$t^o := \text{Instantiate}(t, \#)$	
21	V ₁₁₀	E ₈₅	$n_{NS}^o := \text{Instantiate}(n_{NS}, \#)$	
20	V ₁₀₁	E ₇₆	$\dot{n}_{NS} := \hat{n}_{NS}^c + \hat{n}_{NS}^d + \tilde{n}_{NS}$	
19	V ₁₀₁	E ₁₄₂	$\dot{n}_{NS} := F_{NS,AS} \overset{AS}{\star} \text{Stack}(\hat{n}_{AS}^c, \hat{n}_{AS}^{c,controlled})$	
18	V ₂₈	E ₁₅	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
17	V ₁₉	E ₁₃₆	$\mu_{NS} := (R_N . T_N) \odot \ln(\xi_{NS})$	
16	V ₁₉	E ₈	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	
15	V ₅₈	E ₃₇	$m_N := m_N$	
14	V ₁₆	E ₈₆	$n_{NS} := \int_{t^o}^{t^e} \dot{n}_{NS} dt + n_{NS}^o$	

Continued on next page

no	var	equ	quations	token
13	V ₄₈	E ₂₇	$k_{xN}^c := \left(\lambda_S \overset{S \in NS}{\star} (\mu_{NS})^{-1} \right) \cdot (V_N)^{-1} \cdot \frac{\partial U_N}{\partial p_N} \cdot v_{xN}$	
12	V ₅₉	E ₃₈	$\rho_N := m_N \cdot (V_N)^{-1}$	
11	V ₉₇	E ₇₂	$d_A := \text{sign} \left(F_{N,A} \overset{N}{\star} p_N \right)$	
10	V ₆₆	E ₄₄	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
9	V ₄	E ₃	$0.5 := \text{Instantiate}(\#, \#)$	
8	V ₈₁	E ₅₈	$k_{xN}^c := k_{xN}^c$	
7	V ₇₄	E ₅₁	$\rho_N := \rho_N$	
6	V ₇₁	E ₄₈	$A_{yzN} := r_{yN} \cdot r_{zN}$	
5	V ₁₇	E ₆	$p_N := \left(-\frac{\partial U_N}{\partial V_N} \right)$	
4	V ₉₈	E ₇₃	$c_{AS} := (0.5 \cdot (F_{NS,AS} - d_A \odot F_{NS,AS})) \overset{NS}{\star} c_{NS}$	
3	V ₉₂	E ₆₇	$\hat{V}_A := (\rho_N)^{-1} \cdot k_{xN}^c \cdot A_{yzN} \cdot D_{N,A} \overset{N}{\star} p_N$	
2	V ₉₂	E ₁₄₀	$\hat{V}_A := \text{Instantiate}(\hat{V}_A, \#)$	
1	V ₉₉	E ₇₄	$\hat{n}_{AS}^c := \hat{V}_A \odot c_{AS}$	
0	V ₁₀₀	E ₇₅	$\hat{n}_{NS}^c := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^c$	