

## Equation assignment sequence for variable $n$

no	var	equ	quations	token
48	12	-	$S_N :: \text{port variable}$	
47	26	-	$A^v :: \text{port variable}$	
46	64	-	$P_{NS,KS} :: \text{port variable}$	
45	88	-	$K^o_K :: \text{port variable}$	
44	62	-	$P_{N,NK} :: \text{port variable}$	
43	127	-	$D_{N,A} :: \text{port variable}$	
42	23	-	$r_{zN} :: \text{port variable}$	
41	10	-	$r_{yN} :: \text{port variable}$	
40	86	-	$N_{S,K} :: \text{port variable}$	
39	61	-	$P_{S,NS} :: \text{port variable}$	
38	60	-	$P_{K,NK} :: \text{port variable}$	
37	63	-	$P_{NK,KS} :: \text{port variable}$	
36	59	-	$P_{NS,AS} :: \text{port variable}$	
35	5	-	$F_{N,A} :: \text{port variable}$	
34	128	-	$D_{NS,AS} :: \text{port variable}$	
33	13	-	$V_N :: \text{port variable}$	
32	1	-	$\# :: \text{port variable}$	
31	6	-	$t :: \text{port variable}$	
30	27	16	$Bo_N := \text{Instantiate}(S_N, \#)$	

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no	var	equ	quations	token
29	69	47	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
28	87	64	$E_{a_{NK}} := \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N . T_{NK}, \#)$	
27	28	17	$R_N := A^v . Bo_N$	
26	115	91	$c_{KS}^o := \text{Instantiate}(c_{KS}, \#)$	
25	114	90	$c_{KS} := c_{NS} \overset{NS}{\star} P_{NS,KS}$	
24	71	49	$\rho_N := m_N . (V_N)^{-1}$	
23	65	46	$d_A := \text{sign} \left( F_{N,A} \overset{N}{\star} p_N \right)$	
22	4	3	$0.5 := \text{Instantiate}(\#, \#)$	
21	108	84	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
20	77	55	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
19	89	65	$K_{NK} := K^o_K \odot \exp((-E_{a_{NK}}) . (R_N \overset{N}{\star} P_{N,NK} . T_{NK})^{-1})$	
18	116	92	$\phi_{KS} := \prod (c_{KS} . (c_{KS}^o)^{-1})$	
17	98	74	$\hat{V}_A := (\rho_N)^{-1} . k_{xN}^c . A_{yzN} . D_{N,A} \overset{N}{\star} p_N$	
16	109	85	$c_{AS} := (0.5 . (F_{NS,AS} - d_A \odot  F_{NS,AS} )) \overset{NS}{\star} c_{NS}$	
15	95	71	$A_{yzN} := r_{yN} . r_{zN}$	
14	93	69	$N_{NS,NK} := P_{S,NS} \overset{S}{\star} \left( (P_{K,NK} . T_{NK} . (T_{NK})^{-1}) \overset{K}{\star} N_{S,K} \right)$	
13	117	93	$\xi_{NK} := K_{NK} . P_{NK,KS} \overset{KS}{\star} \phi_{KS}$	
12	110	86	$\hat{n}_{AS}^c := \hat{V}_A \odot c_{AS}$	
11	73	51	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	
10	104	80	$\hat{n}_{AS}^d := A_{yzN} \odot (-k_{xNS}^d) . D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	

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no	var	equ	quations	token
9	118	94	$\tilde{n}_{NS} := V_N \odot \left( N_{NS,NK} \overset{NK}{\star} \xi_{NK} \right)$	
8	111	87	$\hat{n}_{NS}^c := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^c$	
7	105	81	$\hat{n}_{NS}^d := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^d$	
6	2	1	$0 := \text{Instantiate}(\#, \#)$	
5	8	5	$t_e := \text{Instantiate}(t, \#)$	
4	7	4	$t_o := \text{Instantiate}(t, \#)$	
3	150	124	$n_{NS}^o := \text{Instantiate}(n_{NS}, \#)$	
2	119	95	$\dot{n}_{NS} := \hat{n}_{NS}^c + \hat{n}_{NS}^d + \tilde{n}_{NS}$	
1	119	129	$\dot{n}_{NS} := \text{Instantiate}(\dot{n}_{NS}, 0)$	
0	42	116	$n_{NS} := \int_{t_o}^{t_e} \dot{n}_{NS} \, dt + n_{NS}^o$	