Equation assignment sequence for variable n

no	var	equ	quations	token
60	12	-	S_N :: port variable	
59	26	-	A^v :: port variable	
58	64	-	$P_{NS,KS}$ :: port variable	
57	9	-	r_{xN} :: port variable	
56	88	-	$K^o{}_K$ :: port variable	
55	62	-	$P_{N,NK}$ :: port variable	
54	127	-	$D_{N,A}$ :: port variable	
53	23	-	r_{zN} :: port variable	
52	10	-	r_{yN} :: port variable	
51	11	-	U_N :: port variable	
50	86	-	$N_{S,K}$ :: port variable	
49	61	-	$P_{S,NS}$ :: port variable	
48	60	-	$P_{K,NK}$ :: port variable	
47	63	-	$P_{NK,KS}$ :: port variable	
46	59	-	$P_{NS,AS}$ :: port variable	
45	5	-	$F_{N,A}$ :: port variable	
44	128	-	$D_{NS,AS}$ :: port variable	
43	13	-	V_N :: port variable	
42	1	-	# :: port variable	

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no	var	equ	quations	token
41	6	-	t :: port variable	
40	27	16	$Bo_N := \text{Instantiate}(S_N, \#)$	
39	69	47	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
38	16	7	$T_N := \frac{\partial U_N}{\partial S_N}$	
37	16	113	$T_N := \text{Instantiate}(T_N, \#)$	
36	87	64	$E_{aNK} := \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N \,.\, T_{NK}, \#)$	
35	28	17	$R_N := A^v \,.\, Bo_N$	
34	115	91	$c^o{}_{KS} := \text{Instantiate}(c_{KS}, \#)$	
33	114	90	$c_{KS} := c_{NS} \overset{NS}{\star} P_{NS,KS}$	
32	71	49	$\rho_N := m_N \,.\, (V_N)^{-1}$	
31	50	37	$k^c_{xN} := \left(\lambda_S \overset{S \in NS}{\star} (\mu_{NS})^{-1}\right) \,.\, (V_N)^{-1} \,.\, \frac{\partial U_N}{\partial p_N} \,.\, v_{xN}$	
30	15	6	$p_N := \left(-\frac{\partial U_N}{\partial V_N}\right)$	
29	15	115	$p_N := \text{Instantiate}(p_N, \#)$	
28	65	46	$d_A := \text{sign}\left(F_{N,A} \overset{N}{\star} p_N\right)$	
27	4	3	$0.5 := \text{Instantiate}(\#, \#)$	
26	108	127	$c_{NS} := \text{Instantiate}(c_{NS}, \#)$	
25	108	84	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
24	21	12	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
23	77	55	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
22	89	65	$K_{NK} := K^o{}_K \odot exp((-E_{aNK}) \,.\, \left(R_N \overset{N}{\star} P_{N,NK} \,.\, T_{NK}\right)^{-1})$	

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no	var	equ	quations	token
21	116	92	$\phi_{KS} := \prod \left(c_{KS} \,.\, \left({c^o}_{KS} \right)^{-1} \right)$	
20	98	74	$\hat{V}_A := \left(\rho_N \right)^{-1} \,.\, k^c_{xN} \,.\, A_{yzN} \,.\, D_{N,A} \overset{N}{\star} p_N$	
19	109	85	$c_{AS} := \left(0.5 \,.\, \left(F_{NS,AS} - d_A \odot \left| F_{NS,AS} \right| \right) \right) \overset{NS}{\star} c_{NS}$	
18	95	71	$A_{yzN} := r_{yN} \,.\, r_{zN}$	
17	54	41	$k^d_{xNS} := \left(\mu_{NS} \right)^{-1} \,.\, \left(v_{xN} \odot \left(\left(V_N \right)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}} \right) \right)$	
16	45	114	$\mu_{NS} := \text{Instantiate}(\mu_{NS}, \#)$	
15	45	32	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	
14	93	69	$N_{NS,NK} := P_{S,NS} \overset{S}{\star} \left(\left(P_{K,NK} \,.\, T_{NK} \,.\, \left(T_{NK} \right)^{-1} \right) \overset{K}{\star} N_{S,K} \right)$	
13	117	93	$\xi_{NK} := K_{NK} \,.\, P_{NK,KS} \overset{KS}{\star} \phi_{KS}$	
12	110	86	$\hat{n}^c{}_{AS} := \hat{V}_A \odot c_{AS}$	
11	73	51	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	
10	104	80	$\hat{n}^d{}_{AS} := A_{yzN} \odot \left(-k^d_{xNS} \right) \,.\, D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
9	118	94	$\tilde{n}_{NS} := V_N \odot \left(N_{NS,NK} \overset{NK}{\star} \xi_{NK} \right)$	
8	111	87	$\hat{n}^c{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^c{}_{AS}$	
7	105	81	$\hat{n}^d{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^d{}_{AS}$	
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	$n^o{}_{NS} := \text{Instantiate}(n_{NS}, \#)$	
2	119	95	$\dot{n}_{NS} := \hat{n}^c{}_{NS} + \hat{n}^d{}_{NS} + \tilde{n}_{NS}$	

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no	var	equ	quations	token
1	119	129	$\dot{n}_{NS} := \text{Instantiate}(\dot{n}_{NS}, 0)$	
0	42	116	$n_{NS} := \int_{t_o}^{t_e} \dot{n}_{NS} \ dt + n^o{}_{NS}$	