

Equation assignment sequence for variable \dot{n}

no	var	equ	quations	token
60	12	-	$S_N :: \text{port variable}$	
59	26	-	$A^v :: \text{port variable}$	
58	64	-	$P_{NS,KS} :: \text{port variable}$	
57	9	-	$r_{xN} :: \text{port variable}$	
56	6	-	$t :: \text{port variable}$	
55	88	-	$K^o_K :: \text{port variable}$	
54	62	-	$P_{N,NK} :: \text{port variable}$	
53	127	-	$D_{N,A} :: \text{port variable}$	
52	23	-	$r_{zN} :: \text{port variable}$	
51	10	-	$r_{yN} :: \text{port variable}$	
50	11	-	$U_N :: \text{port variable}$	
49	86	-	$N_{S,K} :: \text{port variable}$	
48	61	-	$P_{S,NS} :: \text{port variable}$	
47	60	-	$P_{K,NK} :: \text{port variable}$	
46	63	-	$P_{NK,KS} :: \text{port variable}$	
45	59	-	$P_{NS,AS} :: \text{port variable}$	
44	5	-	$F_{N,A} :: \text{port variable}$	
43	128	-	$D_{NS,AS} :: \text{port variable}$	
42	13	-	$V_N :: \text{port variable}$	

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no	var	equ	quations	token
41	1	-	$\# :: \text{port variable}$	
40	27	16	$Bo_N := \text{Instantiate}(S_N, \#)$	
39	69	47	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
38	8	5	$t_e := \text{Instantiate}(t, \#)$	
37	7	4	$t_o := \text{Instantiate}(t, \#)$	
36	150	124	$n_{NS}^o := \text{Instantiate}(n_{NS}, \#)$	
35	16	7	$T_N := \frac{\partial U_N}{\partial S_N}$	
34	16	113	$T_N := \text{Instantiate}(T_N, \#)$	
33	87	64	$E_{aNK} := \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N . T_{NK}, \#)$	
32	28	17	$R_N := A^v . Bo_N$	
31	115	91	$c_{KS}^o := \text{Instantiate}(c_{KS}, \#)$	
30	114	90	$c_{KS} := c_{NS} \overset{NS}{\star} P_{NS,KS}$	
29	71	49	$\rho_N := m_N . (V_N)^{-1}$	
28	50	37	$k_{xN}^c := \left(\lambda_S \overset{S \in NS}{\star} (\mu_{NS})^{-1} \right) . (V_N)^{-1} . \frac{\partial U_N}{\partial p_N} . v_{xN}$	
27	15	6	$p_N := \left(-\frac{\partial U_N}{\partial V_N} \right)$	
26	15	115	$p_N := \text{Instantiate}(p_N, \#)$	
25	65	46	$d_A := \text{sign} \left(F_{N,A} \overset{N}{\star} p_N \right)$	
24	4	3	$0.5 := \text{Instantiate}(\#, \#)$	
23	108	127	$c_{NS} := \text{Instantiate}(c_{NS}, \#)$	
22	108	84	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	

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no	var	equ	quations	token
21	21	12	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
20	42	116	$n_{NS} := \int_{t_o}^{t_e} \dot{n}_{NS} dt + n_{NS}^o$	
19	77	55	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
18	89	65	$K_{NK} := K_K^o \odot \exp((-E_{a_{NK}}) \cdot (R_N \overset{N}{\star} P_{N,NK} \cdot T_{NK})^{-1})$	
17	116	92	$\phi_{KS} := \prod (c_{KS} \cdot (c_{KS}^o)^{-1})$	
16	98	74	$\hat{V}_A := (\rho_N)^{-1} \cdot k_{xN}^c \cdot A_{yzN} \cdot D_{N,A} \overset{N}{\star} p_N$	
15	109	85	$c_{AS} := (0.5 \cdot (F_{NS,AS} - d_A \odot F_{NS,AS})) \overset{NS}{\star} c_{NS}$	
14	95	71	$A_{yzN} := r_{yN} \cdot r_{zN}$	
13	54	41	$k_{xNS}^d := (\mu_{NS})^{-1} \cdot (v_{xN} \odot ((V_N)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}}))$	
12	45	114	$\mu_{NS} := \text{Instantiate}(\mu_{NS}, \#)$	
11	45	32	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	
10	93	69	$N_{NS,NK} := P_{S,NS} \overset{S}{\star} ((P_{K,NK} \cdot T_{NK} \cdot (T_{NK})^{-1}) \overset{K}{\star} N_{S,K})$	
9	117	93	$\xi_{NK} := K_{NK} \cdot P_{NK,KS} \overset{KS}{\star} \phi_{KS}$	
8	110	86	$\hat{n}_{AS}^c := \hat{V}_A \odot c_{AS}$	
7	73	51	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	
6	104	80	$\hat{n}_{AS}^d := A_{yzN} \odot (-k_{xNS}^d) \cdot D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
5	118	94	$\tilde{n}_{NS} := V_N \odot (N_{NS,NK} \overset{NK}{\star} \xi_{NK})$	
4	111	87	$\hat{n}_{NS}^c := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^c$	
3	105	81	$\hat{n}_{NS}^d := F_{NS,AS} \overset{AS}{\star} \hat{n}_{AS}^d$	
2	2	1	$0 := \text{Instantiate}(\#, \#)$	

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no	var	equ	quations	token
1	119	95	$\dot{n}_{NS} := \hat{n}_{NS}^c + \hat{n}_{NS}^d + \tilde{n}_{NS}$	
0	119	129	$\dot{n}_{NS} := \text{Instantiate}(\dot{n}_{NS}, 0)$	