Equation assignment sequence for variable $\it i$

no	var	equ	quations	token
82	12	-	S_N :: port variable	
81	26	_	A^v :: port variable	
80	64	_	$P_{NS,KS}$:: port variable	
79	9	_	r_{xN} :: port variable	
78	88	_	K^{o}_{K} :: port variable	
77	62	_	$P_{N,NK}$:: port variable	
76	127	_	$D_{N,A}$:: port variable	
75	23	_	r_{zN} :: port variable	
74	10	_	r_{yN} :: port variable	
73	86	_	$N_{S,K}$:: port variable	
72	61	_	$P_{S,NS}$:: port variable	
71	60	_	$P_{K,NK}$:: port variable	
70	63	_	$P_{NK,KS}$:: port variable	
69	59	_	$P_{NS,AS}$:: port variable	
68	5	_	$F_{N,A}$:: port variable	
67	128	_	$D_{NS,AS}$:: port variable	
66	164	-	1_{NS} :: port variable	
65	13	_	V_N :: port variable	
64	177	_	$P_{N,NS}$:: port variable	

no	var	equ	quations	token
63	11	-	U_N :: port variable	
62	1	-	# :: port variable	
61	6	-	t:: port variable	
60	159	-	C_N :: port variable	
59	187	-	i:: port variable	
58	170	-	1_N :: port variable	
57	27	16	$Bo_N := \text{Instantiate}(S_N, \#)$	
56	69	47	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
55	29	142	$\lambda_S := \operatorname{Instantiate}(\lambda_S, \#)$	
54	16	7	$T_N := \frac{\partial U_N}{\partial S_N}$	
53	16	113	$T_N := \text{Instantiate}(T_N, \#)$	
52	87	64	$E_{aNK} := \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N . T_{NK}, \#)$	
51	28	17	$R_N := A^v \cdot Bo_N$	
50	115	91	$c^{o}_{KS} := \operatorname{Instantiate}(c_{KS}, \#)$	
49	114	90	$c_{KS} := c_{NS} \overset{NS}{\star} P_{NS,KS}$	
48	71	154	$\rho_N := \operatorname{Instantiate}(\rho_N, \#)$	
47	71	49	$\rho_N := m_N \cdot (V_N)^{-1}$	
46	50	134	$k_{xN}^c := \text{Instantiate}(k_{xN}^c, \#)$	
45	50	37	$k_{xN}^c := \left(\lambda_S \overset{S \in NS}{\star} (\mu_{NS})^{-1}\right) \cdot (V_N)^{-1} \cdot \frac{\partial U_N}{\partial p_N} \cdot v_{xN}$	
44	15	6	$p_N := \left(-\frac{\partial U_N}{\partial V_N}\right)$	

no	var	equ	quations	token
43	15	115	$p_N := \operatorname{Instantiate}(p_N, \#)$	
42	65	46	$d_A := \operatorname{sign}\left(F_{N,A} \stackrel{N}{\star} p_N\right)$	
41	4	3	0.5 := Instantiate(#, #)	
40	21	12	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
39	77	55	$T_{NK} := P_{N,NK} \stackrel{N}{\star} T_N$	
38	89	65	$K_{NK} := K^o{}_K \odot exp((-E_{aNK}) \cdot \left(R_N \stackrel{N}{\star} P_{N,NK} \cdot T_{NK}\right)^{-1})$	
37	116	92	$\phi_{KS} := \prod \left(c_{KS} \cdot \left(c^o_{KS} \right)^{-1} \right)$	
36	98	74	$\hat{V}_A := (\rho_N)^{-1} \cdot k_{xN}^c \cdot A_{yzN} \cdot D_{N,A} \stackrel{N}{\star} p_N$	
35	109	85	$c_{AS} := (0.5 \cdot (F_{NS,AS} - d_A \odot F_{NS,AS})) \overset{NS}{\star} c_{NS}$	
34	95	71	$A_{yzN} := r_{yN} \cdot r_{zN}$	
33	54	137	$k_{xNS}^d := \text{Instantiate}(k_{xNS}^d, \#)$	
32	54	41	$k_{xNS}^d := (\mu_{NS})^{-1} \cdot \left(v_{xN} \odot \left((V_N)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}} \right) \right)$	
31	45	114	$\mu_{NS} := \text{Instantiate}(\mu_{NS}, \#)$	
30	45	32	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	
29	93	69	$N_{NS,NK} := P_{S,NS} \stackrel{S}{\star} \left(\left(P_{K,NK} . T_{NK} . \left(T_{NK} \right)^{-1} \right) \stackrel{K}{\star} N_{S,K} \right)$	
28	117	93	$\xi_{NK} := K_{NK} \cdot P_{NK,KS} \stackrel{KS}{\star} \phi_{KS}$	
27	110	86	$\hat{n}^c{}_{AS} := \hat{V}_A \odot c_{AS}$	
26	73	51	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	
25	104	80	$\hat{n}^d_{AS} := A_{yzN} \odot \left(-k_{xNS}^d \right) \cdot D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
24	118	94	$\tilde{n}_{NS} := V_N \odot \left(N_{NS,NK} \overset{NK}{\star} \xi_{NK} \right)$	

no	var	equ	quations	token
23	111	87	$\hat{n}^c{}_{NS} := F_{NS,AS} \stackrel{AS}{\star} \hat{n}^c{}_{AS}$	
22	105	81	$\hat{n}^d_{NS} := F_{NS,AS} \stackrel{AS}{\star} \hat{n}^d_{AS}$	
21	2	1	0 := Instantiate(#, #)	
20	8	5	$t_e := \text{Instantiate}(t, \#)$	
19	7	4	$t_o := \text{Instantiate}(t, \#)$	
18	150	124	$n^o_{NS} := \text{Instantiate}(n_{NS}, \#)$	
17	119	95	$\dot{n}_{NS} := \hat{n}^c{}_{NS} + \hat{n}^d{}_{NS} + \tilde{n}_{NS}$	
16	119	129	$\dot{n}_{NS} := \text{Instantiate}(\dot{n}_{NS}, 0)$	
15	42	116	$n_{NS} := \int_{t_o}^{t_e} \dot{n}_{NS} \ dt + n^o_{NS}$	
14	165	161	$n^t_N := 1_{NS} \overset{S \in NS}{\star} c_{NS}$	
13	108	127	$c_{NS} := \operatorname{Instantiate}(c_{NS}, \#)$	
12	108	84	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
11	183	179	$i_{NS} := P_{N,NS} \stackrel{N}{\star} i_N$	
10	191	194	$k^{e,\xi}_N := \text{Instantiate}(k^{e,\xi}_N, \#)$	
9	166	162	$\xi_{NS} := (n^t{}_N)^{-1} \odot c_{NS}$	
8	185	181	$k^{e,\xi}_{N} := (U^{e}_{N})^{-1} \cdot \left(i_{NS} \overset{S \in NS}{\star} ln(\xi_{NS}) \right)$	
7	182	195	$kC_N := k^{e,\xi_N} \overset{S \in NS}{\star} \xi_{NS}$	
6	182	178	$kC_N := i_N \cdot (U^e_N)^{-1}$	
5	160	182	$U^e_N := \left(k^{e,\xi}_N\right)^{-1} \cdot i_N$	
4	160	156	$U^e_N := (C_N)^{-1} \cdot U_N$	

no	var	equ	quations	token
3	160	177	$U^e_N := \text{Instantiate}(U^e_N, \#)$	
2	173		$i_N := kC_N \cdot U^e_N$	
1	173	168	$i_N := rac{dC_N}{dt}$	
0	173	197	$i_N := 1_N \cdot i$	