Equation assignment sequence for variable C_V

no	var	equ	quations	token
100	9	-	$S_{I,p}$:: port variable	
99	4	_	$F^{sink}_{N,I}$:: port variable	
98	198	_	K^{o}_{K} :: port variable	
97	197	_	E^{a}_{K} :: port variable	
96	26	_	$N_{S,K}$:: port variable	
95	19	_	$A_{N,p,q}$:: port variable	
94	10	-	$S_{I,q}$:: port variable	
93	122	_	k^B :: port variable	
92	121	_	N^A :: port variable	
91	3	_	$F^{source}_{N,I} :: port variable$	
90	27	_	$I_{N,A}$:: port variable	
89	2	_	$F_{N,A}$:: port variable	
88	132	_	λ_S :: port variable	
87	25	_	r_{zN} :: port variable	
86	24	_	r_{yN} :: port variable	
85	23	_	r_{xN} :: port variable	
84	101	_	# :: port variable	
83	1	-	t:: port variable	

no	var	equ	quations	token
82	109	-	S_N :: port variable	
81	108	_	U_N :: port variable	
80	164	173	$x := F^{source}_{N,I} * x_{N,S}$	
79	166	172	$T := F^{source}{}_{N,I} \stackrel{N}{\star} T_{N}$	
78	165	170	$x := (F^{sink}_{N,I} \cdot _x_{I,S}) \overset{I}{\star} S_{I,p}$	
77	167	166	$T := (F^{sink}_{N,I} \cdot _T_I) \stackrel{I}{\star} S_{I,p}$	
76	168	164	$f := x_{N,S,p}((N_{S,K}))$	
75	199	160	$K := K^{o}_{K} \cdot \exp\left((-E^{a}_{K}) \cdot (R \cdot T_{N,p})^{-1}\right)$	
74	169	158	$\xi := \prod_S f_{N,S,K,p}$	
73	200	153	$\tilde{n} := A_{N,p,q} \star \left(N_{S,K} \star \left(K_{N,K,p} \cdot \xi_{N,K,p} \right) \right)$	
72	139	152	$n^t := \mathbf{reduceSum}(n_{N,S}, S)$	
71	143	151	$\rho := (V_N)^{-1} \cdot m_N$	
70	201	148	$np := \mathbf{reduceSum}\left(\left(\left(F^{source}_{N,I} \star \tilde{n}_{N,S,q}\right) . S_{I,q}\right), q\right)$	
69	120	147	$v_z := \frac{\partial r_{zN}}{\partial t}$	
68	119	146	$v_y := \frac{\partial r_{yN}}{\partial t}$	
67	161	145	$\mu^o := \mathbf{Instantiate}(\mu_{N,S}, \#)$	
66	140	143	$x := (n^t_N)^{-1} \cdot n_{N,S}$	
65	123	140	$R := N^A \cdot k^B$	
64	118	139	$v_x := \frac{\partial r_{xN}}{\partial t}$	
63	189	137	$ ho := I_{N,A} \stackrel{N}{\star} ho_N$	

no	var	equ	quations	token
62	183	136	$k_x^c := I_{N,A} * \left(\left(\lambda_S * (\mu_{N,S})^{-1} \right) \cdot (V_N)^{-1} \cdot \frac{\partial U_N}{\partial p_N} \cdot v_{xN} \right)$	
61	157	135	$d := \mathbf{sign}\left(F_{N,A} \overset{N}{\star} p_N\right)$	
60	104	134	$0.5 := \mathbf{Instantiate}(\#, \#)$	
59	202	131	$\tilde{n} := F^{source}{}_{N,I} \star _np_{I,S}$	
58	195	130	$\dot{n}_x^d := F_{N,A} \stackrel{A}{\star} \hat{n}_{xA,S}^d$	
57	194	129	$\dot{n}_x^c := F_{N,A} \stackrel{A}{\star} \hat{n}_{xA,S}^c$	
56	188	128	$k_z^q := I_{N,A} \stackrel{N}{\star} \left((V_N)^{-1} \cdot C_{pN} \cdot v_{zN} \right)$	
55	187	127	$k_y^q := I_{N,A} \stackrel{N}{\star} \left((V_N)^{-1} \cdot C_{pN} \cdot v_{yN} \right)$	
54	186	126	$k_x^q := I_{N,A} \stackrel{N}{\star} \left((V_N)^{-1} \cdot C_{pN} \cdot v_{xN} \right)$	
53	192	125	$\hat{k}_z^{d,Fick} := I_{N,A} \stackrel{N}{\star} \left(v_{zN} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \cdot (n_{N,S})^{-1} \right)$	
52	182	123	$k_z^d := I_{N,A} * \left((\mu_{N,S})^{-1} \cdot \left(v_{zN} \cdot \left((V_N)^{-1} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \right) \right) \right)$	
51	148	122	$A_{xy} := r_{xN} \cdot r_{yN}$	
50	181	121	$k_y^d := I_{N,A} * \left((\mu_{N,S})^{-1} \cdot \left(v_{yN} \cdot \left((V_N)^{-1} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \right) \right) \right)$	
49	191	119	$\hat{k}_y^{d,Fick} := I_{N,A} \stackrel{N}{\star} \left(v_{yN} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \cdot (n_{N,S})^{-1} \right)$	
48	149	118	$A_{xz} := r_{xN} \cdot r_{zN}$	
47	180	117	$k_x^d := I_{N,A} * \left((\mu_{N,S})^{-1} \cdot \left(v_{xN} \cdot \left((V_N)^{-1} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \right) \right) \right)$	
46	114	113	$\mu := \mu^o_{N,S} + R \cdot T_N \cdot \ln(x_{N,S})$	
45	114	112	$\mu := \frac{\partial U_N}{\partial n_{N,S}}$	
44	190	109	$\hat{k}_x^{d,Fick} := I_{N,A} \stackrel{N}{\star} \left(v_{xN} \cdot \frac{\partial U_N}{\partial \mu_{N,S}} \cdot (n_{N,S})^{-1} \right)$	
43	150	108	$A_{yz} := r_{yN} \cdot r_{zN}$	

no	var	equ	quations	token
42	138	107	$c := (V_N)^{-1} \cdot n_{N,S}$	
41	159	104	$\hat{V} := (\rho_A)^{-1} \cdot k_{xA}^c \cdot A_{yzN} \cdot F_{N,A} \stackrel{N}{\star} p_N$	
40	158	101	$c := (0.5 \cdot (F_{N,A} - d_A \cdot F_{N,A})) \stackrel{N}{\star} c_{N,S}$	
39	203	100	$igg n^o := \mathbf{Instantiate}(n_{N,S}, \#)$	
38	196	96	$\dot{n} := \dot{n}_{xN,S}^c + \dot{n}_{xN,S}^d + {V}_N \cdot \tilde{n}_{N,S}$	
37	211	95	$\hat{w} := \mathbf{Instantiate}(\hat{q}_{xA}, \#)$	
36	153	93	$\hat{q}_z := k_{zA}^q \cdot A_{xyN} \cdot F_{N,A} \overset{N}{\star} T_N$	
35	152	91	$\hat{q}_y := k_{yA}^q \cdot A_{xzN} \cdot F_{N,A} \overset{N}{\star} T_N$	
34	151	89	$\hat{q}_x := k_{xA}^q \cdot A_{yzN} \cdot F_{N,A} \overset{N}{\star} T_N$	
33	156	87	$\hat{n}_z^d := \hat{k}_z^{d,Fick}{}_{A,S} \cdot (A_{xyN} \cdot F_{N,A}) \overset{N}{\star} c_{N,S}$	
32	156	84	$\hat{n}_z^d := k_{zA,S}^d \cdot (A_{xyN} \cdot F_{N,A}) \stackrel{N}{\star} \mu_{N,S}$	
31	155	82	$\hat{n}_y^d := k_{yA,S}^d \cdot (A_{yzN} \cdot F_{N,A}) \stackrel{N}{\star} \mu_{N,S}$	
30	155	79	$\hat{n}_y^d := \hat{k}_y^{d,Fick}{}_{A,S} \cdot A_{xzN} \cdot F_{N,A} \overset{N}{\star} c_{N,S}$	
29	154	76	$\hat{n}_x^d := k_{xA,S}^d \cdot (A_{yzN} \cdot F_{N,A}) \stackrel{N}{\star} \mu_{N,S}$	
28	154	72	$\hat{n}_x^d := \hat{k}_x^{d,Fick}{}_{A,S} \cdot A_{yzN} \cdot F_{N,A} \overset{N}{\star} c_{N,S}$	
27	160	69	$\hat{n}_x^c := \hat{V}_A \cdot c_{A,S}$	
26	136	68	$h := H_N \cdot (n_{N,S})^{-1}$	
25	111	65	$n := \int_{t^o}^{t^e} \dot{n}_{N,S} \ dt + n^o{}_{N,S}$	
24	214	63	$\dot{w} := F_{N,A} \stackrel{A}{\star} \hat{w}_A$	
23	210	61	$\dot{q}_z := F_{N,A} \stackrel{A}{\star} \hat{q}_{zA}$	

no	var	equ	quations	token
22	209	59	$\dot{q}_y := F_{N,A} \stackrel{A}{\star} \hat{q}_{yA}$	
21	208	57	$\dot{q}_x := F_{N,A} \stackrel{A}{\star} \hat{q}_{xA}$	
20	207	55	$\dot{H}_z^d := F_{N,A} \stackrel{A}{\star} \left(\hat{n}_{zA,S}^d \stackrel{S}{\star} h_{N,S} \right)$	
19	206	53	$\dot{H}_y^d := F_{N,A} \stackrel{A}{\star} \left(\hat{n}_{yA,S}^d \stackrel{S}{\star} h_{N,S} \right)$	
18	205	51	$\dot{H}_x^d := F_{N,A} \stackrel{A}{\star} \left(\hat{n}_{xA,S}^d \stackrel{S}{\star} h_{N,S} \right)$	
17	204	47	$\dot{H}_x^c := F_{N,A} \stackrel{A}{\star} \left(\hat{n}_{xA,S}^c \stackrel{S}{\star} h_{N,S} \right)$	
16	141	46	$c_p := \mathbf{Instantiate}(c_{pN}, \#)$	
15	141	45	$c_p := C_{pN} \cdot (m_N)^{-1}$	
14	137	42	$m := \lambda_S \stackrel{S}{\star} n_{N,S}$	
13	216	41	$H^o := \mathbf{Instantiate}(H_N, \#)$	
12	215	32	$\dot{H} := \dot{H}_{xN}^c + \dot{H}_{xN}^d + \dot{H}_{yN}^d + \dot{H}_{zN}^d + \dot{q}_{xN} + \dot{q}_{yN} + \dot{q}_{zN} + \dot{w}_N$	
11	106	31	$t^e := \mathbf{Instantiate}(t, \#)$	
10	105	30	$t^o := \mathbf{Instantiate}(t, \#)$	
9	112	29	$p := \frac{\partial U_N}{\partial V_N}$	
8	110	25	$V := r_{xN} \cdot r_{yN} \cdot r_{zN}$	
7	222	23	$T^{ref} := \mathbf{Instantiate}(T_N, \#)$	
6	124	22	$C_p := \frac{\partial H_N}{\partial T_N}$	
5	124	19	$C_p := m_N \cdot c_{pN}$	
4	115	13	$H := \int_{t^o}^{t^e} \dot{H}_N \ dt + H^o_N$	
3	115	10	$H := U_N - p_N \cdot V_N$	

no	var	equ	quations	token
2	113	6	$T := H_N \cdot (C_{pN})^{-1} + T^{ref}{}_N$	
1	113	4	$T := \frac{\partial U_N}{\partial S_N}$ $C_V := \frac{\partial U_N}{\partial T_N}$	
0	125	1	$C_V := rac{\partial U_N}{\partial T_N}$	