Equation assignment sequence for variable $\hat{H}^d{}_A$

no	var	equ	quations	token
87	$V_1 47$	-	P_{NK} :: port variable	
86	$V_1 55$	-	B :: port variable	
85	$V_4 0$	-	λ_S :: port variable	
84	$V_3 8$	-	$K^o{}_K$ :: port variable	
83	$V_3 3$	-	$P_{K,NK}$ :: port variable	
82	$V_1 58$	-	$N_{K,KS}$ :: port variable	
81	$V_3 6$	-	$P_{NS,KS}$ :: port variable	
80	$V_3 5$	-	$P_{N,NK}$ :: port variable	
79	$V_9 0$	-	$D_{N,A}$ :: port variable	
78	V_8	-	$F_{N,A}$ :: port variable	
77	$V_1 0$	-	r_{xN} :: port variable	
76	$V_1 27$	-	1_S :: port variable	
75	V_1	-	# :: port variable	
74	$V_1 4$	-	S_N :: port variable	
73	$V_2 4$	-	A^v :: port variable	
72	$V_1 5$	-	V_N :: port variable	
71	V_5	-	t :: port variable	
70	$V_1 2$	-	r_{zN} :: port variable	

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no	var	equ	quations	token
69	$V_1 1$	-	r_{yN} :: port variable	
68	$V_1 3$	-	U_N :: port variable	
67	$V_9 1$	-	$D_{NS,AS}$ :: port variable	
66	$V_7 0$	-	$F_{NS,AS}$ :: port variable	
65	$V_4 1$	$E_2 0$	$\lambda_S := \lambda_S$	
64	$V_6 7$	$E_4 5$	$c_{NS} := c_{NS}$	
63	$V_5 7$	$E_3 6$	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
62	$V_1 52$	$E_1 24$	${c^o}_{NK,KS} := \text{Instantiate}(c_{NK,KS}, \#)$	
61	$V_1 51$	$E_1 23$	$c_{NK,KS} := P_{NK} \,.\, \left(P_{NS,KS} \overset{NS}{\star} c_{NS} \right)$	
60	$V_5 8$	$E_3 7$	$m_N := m_N$	
59	$V_4 4$	$E_2 3$	$k^q_{xN} := (V_N)^{-1} \,.\, \frac{\partial U_N}{\partial T_N} \,.\, v_{xN}$	
58	$V_6 2$	$E_4 1$	${E^a}_{NK} := \text{Instantiate}(R \,.\, T_{NK}, \#)$	
57	$V_6 0$	$E_3 9$	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
56	$V_1 57$	$E_1 27$	$R := A^v \,.\, B$	
55	$V_1 53$	$E_1 25$	$x_{NK,KS} := ({c^o}_{NK,KS})^{-1} \,.\, c_{NK,KS}$	
54	$V_4 8$	$E_2 7$	$k^c_{xN} := \left(\lambda_S \overset{S \in NS}{\star} (\mu_{NS})^{-1} \right) \,.\, (V_N)^{-1} \,.\, \frac{\partial U_N}{\partial p_N} \,.\, v_{xN}$	
53	$V_5 9$	$E_3 8$	$\rho_N := m_N \,.\, (V_N)^{-1}$	
52	V_2	E_1	$1 := \text{Instantiate}(\#, \#)$	
51	$V_7 6$	$E_5 3$	$k^q_{xN} := k^q_{xN}$	
50	$V_6 3$	$E_4 2$	$K_{NK} := {K^o}_K \odot exp((-{E^a}_{NK}) \,.\, (R \,.\, T_{NK})^{-1})$	

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no	var	equ	quations	token
49	$V_1 60$	$E_1 29$	$\phi_{NK} := \prod_{KS} {x_{NK,KS}}^{N_{NK,KS}}$	
48	$V_1 59$	$E_1 28$	$N_{NK,KS} := P_{K,NK} \overset{K}{\star} N_{K,KS}$	
47	$V_9 7$	$E_7 2$	$d_A := \operatorname{sign}\left(F_{N,A} \overset{N}{\star} p_N\right)$	
46	$V_6 6$	$E_4 4$	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
45	V_4	E_3	$0.5 := \text{Instantiate}(\#, \#)$	
44	$V_8 1$	$E_5 8$	$k^c_{xN} := k^c_{xN}$	
43	$V_7 4$	$E_5 1$	$\rho_N := \rho_N$	
42	$V_1 71$	$E_1 38$	$s := 0.5 \,.\, (1 + \operatorname{sign}(t^o))$	
41	$V_1 06$	$E_8 1$	$\hat{q}_{xA} := A_{yzN} \,.\, k^q_{xN} \,.\, D_{N,A} \overset{N}{\star} T_N$	
40	$V_1 04$	$E_7 9$	$\hat{w}_A := \text{Instantiate}(\hat{H^c}_A, \#)$	
39	$V_1 02$	$E_7 7$	$\hat{H^c}_A := \left(F_{NS,AS} \overset{NS}{\star}\, {}_{hNS}\right) \overset{S \in AS}{\star} \hat{n^c}_{AS}$	
38	$V_1 63$	$E_1 30$	$\tilde{n}_{NS} := V_N \overset{N}{\star} \left(P_{N,NK} \overset{NK}{\star} \left((K_{NK} \,.\, \phi_{NK}) \,.\, \left(P_{NS,KS} \overset{KS}{\star} N_{NK,KS}\right)\right)\right)$	
37	$V_9 8$	$E_7 3$	$c_{AS} := (0.5 \,.\, (F_{NS,AS} - d_A \odot \lvert F_{NS,AS} \rvert)) \overset{NS}{\star} c_{NS}$	
36	$V_9 2$	$E_1 40$	$\hat{V}_A := \text{Instantiate}(\hat{V}_A, \#)$	
35	$V_9 2$	$E_6 7$	$\hat{V}_A := (\rho_N)^{-1} \,.\, k^c_{xN} \,.\, A_{yzN} \,.\, D_{N,A} \overset{N}{\star} p_N$	
34	$V_1 72$	$E_1 39$	$s := s$	
33	$V_9 6$	$E_7 1$	$\hat{H^d}_N := F_{N,A} \overset{A}{\star} \hat{H^d}_A$	
32	$V_1 07$	$E_8 2$	$\hat{q}_N := F_{N,A} \overset{A}{\star} \hat{q}_{xA}$	
31	$V_1 05$	$E_8 0$	$\hat{w}_N := F_{N,A} \overset{A}{\star} \hat{w}_A$	
30	$V_1 03$	$E_7 8$	$\hat{H^c}_N := F_{N,A} \overset{A}{\star} \hat{H^c}_A$	

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no	var	equ	quations	token
29	$V_9 4$	$E_6 9$	$\hat{n}^d{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^d{}_{AS}$	
28	$V_1 64$	$E_1 31$	$\tilde{n}_{NS} := \tilde{n}_{NS}$	
27	$V_1 00$	$E_7 5$	$\hat{n}^c{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^c{}_{AS}$	
26	$V_9 9$	$E_7 4$	$\hat{n}^c{}_{AS} := \hat{V}_A \odot c_{AS}$	
25	$V_1 73$	$E_1 41$	$\hat{n}^{c,controlled}{}_{AS} := s \,.\, \hat{n}^c{}_{AS}$	
24	$V_2 8$	$E_1 5$	$v_{xN} := \frac{\partial r_{xN}}{\partial t}$	
23	$V_1 68$	$E_1 34$	$n_{tN} := 1_S \overset{S \in NS}{\star} n_{NS}$	
22	$V_1 65$	$E_1 32$	$boz_N := \text{Instantiate}(S_N, \#)$	
21	$V_1 08$	$E_8 3$	$\dot{H}_N := \hat{H}^c{}_N + \hat{H}^d{}_N + \hat{q}_N + \hat{w}_N$	
20	$V_1 7$	E_6	$p_N := \left(-\frac{\partial U_N}{\partial V_N}\right)$	
19	V_7	E_5	$t^e := \text{Instantiate}(t, \#)$	
18	V_6	E_4	$t^o := \text{Instantiate}(t, \#)$	
17	$V_1 10$	$E_8 5$	$n^o{}_{NS} := \text{Instantiate}(n_{NS}, \#)$	
16	$V_1 01$	$E_7 6$	$\dot{n}_{NS} := \hat{n}^c{}_{NS} + \hat{n}^d{}_{NS} + \tilde{n}_{NS}$	
15	$V_1 01$	$E_1 42$	$\dot{n}_{NS} := F_{NS,AS} \overset{AS}{\star} \text{Stack}\left(\hat{n}^c{}_{AS}, \hat{n}^{c,controlled}{}_{AS}\right)$	
14	$V_5 2$	$E_3 1$	$k^d_{xNS} := (\mu_{NS})^{-1} \,.\, \left(v_{xN} \odot \left((V_N)^{-1} \odot \frac{\partial U_N}{\partial \mu_{NS}}\right)\right)$	
13	$V_1 8$	E_7	$T_N := \frac{\partial U_N}{\partial S_N}$	
12	$V_1 69$	$E_1 35$	$\xi_{NS} := (n_{tN})^{-1} \odot n_{NS}$	
11	$V_1 66$	$E_1 33$	$R_N := A^v \,.\, boz_N$	
10	$V_2 0$	$E_8 7$	$H_N := \int_{t^o}^{t^e} \dot{H}_N \; dt$	

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no	var	equ	quations	token
9	$V_2 0$	E_9	$H_N := U_N - p_N \,.\, V_N$	
8	$V_1 6$	$E_8 6$	$n_{NS} := \int_{t^o}^{t^e} \dot{n}_{NS} \; dt + n^o{}_{NS}$	
7	$V_8 6$	$E_6 3$	$k^d_{xNS} := k^d_{xNS}$	
6	$V_7 1$	$E_4 8$	$A_{yzN} := r_{yN} \,.\, r_{zN}$	
5	$V_1 9$	$E_1 36$	$\mu_{NS} := (R_N \,.\, T_N) \odot ln(\xi_{NS})$	
4	$V_1 9$	E_8	$\mu_{NS} := \frac{\partial U_N}{\partial n_{NS}}$	
3	$V_5 6$	$E_3 5$	$h_{NS} := H_N \odot (n_{NS})^{-1}$	
2	$V_9 3$	$E_6 8$	$\hat{n}^d{}_{AS} := A_{yzN} \odot \left(-k^d_{xNS}\right) \,.\, D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
1	$V_7 5$	$E_5 2$	${}_{hNS} := h_{NS}$	
0	$V_9 5$	$E_7 0$	$\hat{H}^d{}_A := \left(F_{NS,AS} \overset{NS}{\star} {}_{hNS}\right) \overset{S \in AS}{\star} \hat{n}^d{}_{AS}$	