Equation assignment sequence for variable $\dot{H}$

no	var	equ	quations	token
70	12	-	S_N :: port variable	
69	26	-	A^v :: port variable	
68	64	-	$P_{NS,KS}$ :: port variable	
67	88	-	$K^o{}_K$ :: port variable	
66	62	-	$P_{N,NK}$ :: port variable	
65	86	-	$N_{S,K}$ :: port variable	
64	61	-	$P_{S,NS}$ :: port variable	
63	60	-	$P_{K,NK}$ :: port variable	
62	63	-	$P_{NK,KS}$ :: port variable	
61	13	-	V_N :: port variable	
60	29	-	λ_S :: port variable	
59	6	-	t :: port variable	
58	23	-	r_{zN} :: port variable	
57	10	-	r_{yN} :: port variable	
56	59	-	$P_{NS,AS}$ :: port variable	
55	128	-	$D_{NS,AS}$ :: port variable	
54	127	-	$D_{N,A}$ :: port variable	
53	5	-	$F_{N,A}$ :: port variable	

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no	var	equ	quations	token
52	1	-	# :: port variable	
51	27	16	$Bo_N := \text{Instantiate}(S_N, \#)$	
50	87	64	$E_{aNK} := \text{Instantiate}(P_{N,NK} \overset{N}{\star} R_N \,.\, T_{NK}, \#)$	
49	28	17	$R_N := A^v \,.\, Bo_N$	
48	115	91	$c^o{}_{KS} := \text{Instantiate}(c_{KS}, \#)$	
47	114	90	$c_{KS} := c_{NS} \overset{NS}{\star} P_{NS,KS}$	
46	77	55	$T_{NK} := P_{N,NK} \overset{N}{\star} T_N$	
45	89	65	$K_{NK} := K^o{}_K \odot exp((-E_{aNK}) \,.\, \left(R_N \overset{N}{\star} P_{N,NK} \,.\, T_{NK}\right)^{-1})$	
44	116	92	$\phi_{KS} := \prod \left(c_{KS} \,.\, \left(c^o{}_{KS}\right)^{-1}\right)$	
43	93	69	$N_{NS,NK} := P_{S,NS} \overset{S}{\star} \left(\left(P_{K,NK} \,.\, T_{NK} \,.\, (T_{NK})^{-1}\right) \overset{K}{\star} N_{S,K}\right)$	
42	117	93	$\xi_{NK} := K_{NK} \,.\, P_{NK,KS} \overset{KS}{\star} \phi_{KS}$	
41	118	94	$\tilde{n}_{NS} := V_N \odot \left(N_{NS,NK} \overset{NK}{\star} \xi_{NK}\right)$	
40	111	87	$\hat{n}^c{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^c{}_{AS}$	
39	105	81	$\hat{n}^d{}_{NS} := F_{NS,AS} \overset{AS}{\star} \hat{n}^d{}_{AS}$	
38	30	18	$C_{pN} := \frac{\partial H_N}{\partial T_N}$	
37	71	49	$\rho_N := m_N \,.\, (V_N)^{-1}$	
36	15	115	$p_N := \text{Instantiate}(p_N, \#)$	
35	65	46	$d_A := \text{sign}\left(F_{N,A} \overset{N}{\star} p_N\right)$	
34	4	3	$0.5 := \text{Instantiate}(\#, \#)$	
33	108	127	$c_{NS} := \text{Instantiate}(c_{NS}, \#)$	

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no	var	equ	quations	token
32	108	84	$c_{NS} := (V_N)^{-1} \odot n_{NS}$	
31	150	124	$n^o{}_{NS} := \text{Instantiate}(n_{NS}, \#)$	
30	119	95	$\dot{n}_{NS} := \hat{n}^c{}_{NS} + \hat{n}^d{}_{NS} + \tilde{n}_{NS}$	
29	119	129	$\dot{n}_{NS} := \text{Instantiate}(\dot{n}_{NS}, 0)$	
28	8	5	$t_e := \text{Instantiate}(t, \#)$	
27	7	4	$t_o := \text{Instantiate}(t, \#)$	
26	151	125	$H^o{}_N := \text{Instantiate}(H_N, \#)$	
25	69	47	$m_N := \lambda_S \overset{S \in NS}{\star} n_{NS}$	
24	148	120	$cp_N := C_{pN} \,.\, (m_N)^{-1}$	
23	145	117	$T_r ef_N := \text{Instantiate}(T_N, \#)$	
22	98	74	$\hat{V}_A := (\rho_N)^{-1} \,.\, k^c_{xN} \,.\, A_{yzN} \,.\, D_{N,A} \overset{N}{\star} p_N$	
21	109	85	$c_{AS} := (0.5 \,.\, (F_{NS,AS} - d_A \odot |F_{NS,AS}|)) \overset{NS}{\star} c_{NS}$	
20	42	116	$n_{NS} := \int_{t_o}^{t_e} \dot{n}_{NS} \; dt + n^o{}_{NS}$	
19	18	123	$H_N := \int_{t_o}^{t_e} \dot{H}_N \; dt + H^o{}_N$	
18	18	122	$H_N := m_N \,.\, \int_{T_r ef_N}^{T_N} cp_N \; dT_N$	
17	45	114	$\mu_{NS} := \text{Instantiate}(\mu_{NS}, \#)$	
16	95	71	$A_{yzN} := r_{yN} \,.\, r_{zN}$	
15	16	113	$T_N := \text{Instantiate}(T_N, \#)$	
14	110	86	$\hat{n}^c{}_{AS} := \hat{V}_A \odot c_{AS}$	
13	73	51	$F_{NS,AS} := F_{N,A} \odot P_{NS,AS}$	

no	var	equ	quations	token
12	58	45	$h_{NS} := H_N \odot (n_{NS})^{-1}$	
11	104	80	$\hat{n}^d{}_{AS} := A_{yzN} \odot \left(-k^d_{xNS}\right) . D_{NS,AS} \overset{NS}{\star} \mu_{NS}$	
10	124	100	$\hat{q}_A := A_{yzN} . k^q_{xN} . D_{N,A} \overset{N}{\star} T_N$	
9	122	98	$\hat{w}_A := \mathrm{Instantiate}(\hat{H}^c{}_A, \#)$	
8	120	96	$\hat{H}^c{}_A := \left(F_{NS,AS} \overset{NS}{\star} h_{NS}\right)^{S \in AS} \overset{}{\star} \hat{n}^c{}_{AS}$	
7	106	82	$\hat{H}^d{}_A := \left(F_{NS,AS} \overset{NS}{\star} h_{NS}\right)^{S \in AS} \overset{}{\star} \hat{n}^d{}_{AS}$	
6	125	101	$\hat{q}_N := F_{N,A} \overset{A}{\star} \hat{q}_A$	
5	123	99	$\hat{w}_N := F_{N,A} \overset{A}{\star} \hat{w}_A$	
4	121	97	$\hat{H}^c{}_N := F_{N,A} \overset{A}{\star} \hat{H}^c{}_A$	
3	107	83	$\hat{H}^d{}_N := F_{N,A} \overset{A}{\star} \hat{H}^d{}_A$	
2	2	1	$0 := \mathrm{Instantiate}(\#, \#)$	
1	126	102	$\dot{H}_N := \hat{H}^c{}_N + \hat{H}^d{}_N + \hat{q}_N + \hat{w}_N$	
0	126	128	$\dot{H}_N := \mathrm{Instantiate}(\dot{H}_N, 0)$	