

Forget Gate: $\mathbf{W}^{(f)}$

0.00	-0.26	+0.12	+0.08
0.00	-0.03	+0.08	+0.01

\mathbf{hx}_t

1.00
0.10
0.80
0.90

$\mathbf{Z}_t^{(f)}$

+0.142
+0.070

φ_σ

\mathbf{f}_t

0.535440468
0.517492858

\mathbf{c}_{t-1}

+0.30
+0.60

\mathbf{c}_\ddagger

+0.160632140
+0.310495715

Input Gate: $\mathbf{W}^{(i\ddagger)}$

0.00	-0.09	-0.06	+0.06
0.00	-0.01	-0.02	0.00

\mathbf{hx}_t

1.00
0.10
0.80
0.90

$\mathbf{Z}_t^{(i\ddagger)}$

-0.003
-0.017

φ_σ

\mathbf{i}_t^\ddagger

0.499250001
0.495750102

\mathbf{i}_t

-0.022949315
+0.050882450

Input Gate: $\mathbf{W}^{(i\ddagger)}$

0.00	+0.10	+0.02	-0.08
0.00	-0.14	0.00	+0.13

\mathbf{hx}_t

1.00
0.10
0.80
0.90

$\mathbf{Z}_t^{(i\ddagger)}$

-0.046
+0.103

φ_τ

\mathbf{i}_t^\ddagger

-0.045967582
+0.102637297

Output Gate: $\mathbf{W}^{(o\ddagger)}$

0.00	-0.16	+0.14
0.00	+0.08	+0.12

+ d[0] = 1

1.00
+0.137682825
+0.361378165

$\mathbf{Z}_t^{(o\ddagger)}$

+0.028563691
+0.054380006

\mathbf{o}_t^\ddagger

+0.028555925
+0.054326465

Output Gate: $\mathbf{W}^{(o\ddagger)}$

0.00	+0.01	+0.12	+0.23
0.00	-0.16	+0.08	+0.04

\mathbf{hx}_t

1.00
0.10
0.80
0.90

$\mathbf{Z}_t^{(o\ddagger)}$

+0.304
+0.084

φ_σ

\mathbf{o}_t^\ddagger

+0.575420058
+0.520987661

\odot

\mathbf{o}_t

+0.016431652
+0.028303418