x=[1:1] =x [] x[2] · x[] x[1] = length - de ル디디e Rdin× = Rdexl din=de TRER dex 9[1] = Wq.x[] ERdatenxl · partenadin painx1 ZIJE polinx | Twa = polateux olin K[i] = WK. x[i] = P daten x din dinx = pdaten >1. VITO Expant = plantxdin dinx W.XIT M= Bontxqm

一红江

ERIXANTADEN

Antidden Xdout & dout Xl

W. V[T] = R X R dout Xl

PETJER X daten.

KEJJE Robotenx

wzerdhiddenxl

WIERdhidden x dout.

RTXdout E Rdoutx1

POLITIKENI ERIXI NEW ERIXL

dont=2) <1>
V[] = { LT] V[]

Ext. Pdonexy TITI E(XI.)

WI. VETI = pd hidden xdon + lxl = R dhiddenxl WZ E R Ixduidden SETJER'X

Wq ERdaten xdin, WKER

Wv = pdout xdin Wi ER

Wz E pdout xdin Wi ER

wz E pdhidden x I , x E pdexl = pdinxl

din=de, l=douts

WI ER 2 x dout = dhidden x dout.

Wre point xdin = point xdont
= plxl

de=l=dout=din, dhidden=2

Wa = dattn x l, wk = dattn x l

 $W_{V=1\times l}$, $W_{1}=2\times l$

W2 = 2x1

-> l2+2l+2l.daten+2 = l2+2l.(1+daten)+2 = W2T RELU (W1. TEIL)

WIER EXAMPLE DONAX

WIV[I] ERZXI RIX

=[42]

WZERIXZ (W, V[T]ERX)

= (L)

41+42

=42(1+2)

ifeed - forward block

(27

activation & [1] & [2] . VED] . VED]

[7] ERIXL

lel2 = size <3>

= d[, J] = exp (q[i] T. k[j]/Janten) QEL exp(q[]]. k[N] /] daten)

of [7] = pl*douth, K[J] = pdateux1 9[7]. K[]] = p1x1

ZV= exp(9[i]. K[n]/ Jdnten)

a deij keije p |x1 2 dates

D. Kdaten, platenx ? [2 daten. l.]

12/xl Pgontx1 = by by => [2/2]

FLOP = 2 daten +2 daten.l

> 2 daten. (1+2) + 2 l 2/

l(y-分)=と (yにロータにひ)

Y CTIER IX

火ではーシットロラにはくでは、

SCRILL FLOPS WZER WIER 2xolout PETJER

= wTEP/X . P2xl

422+4l.) ×3

5. Wa E Ratenxdin datenxd.

 $W_q(t,t) = 2M^2$, t = 2, ..., d_{atth}

WKE Rdatenxl.

 $W_{V,(\bar{1},\bar{3})} = \int_{0}^{\infty} t=2,3,--daten$ $W_{V,(\bar{1},\bar{3})} = \int_{0}^{\infty} \int_{0}^{\infty} t=n+4,j=1$ $E_{V,(\bar{1},\bar{3})} = \int_{0}^{\infty} \int_{0}^{\infty} t=n+4,j=1$