

$$pt_{2-A} = 8; \quad pt_{2-X} = 1;$$

$$ra\phi = mul_pd(ra\phi, rx\phi);$$

$$\begin{bmatrix} a_{11}x_1 \\ \vdots \\ a_{21}x_1 \end{bmatrix} = \begin{bmatrix} a_{11} \\ a_{21} \end{bmatrix} \cdot \begin{bmatrix} x_1 \\ x_1 \end{bmatrix}$$

$$ra1 = mul_pd(ra1, rx\phi);$$

$$\begin{bmatrix} a_{31}x_1 \\ a_{41}x_1 \end{bmatrix} = \begin{bmatrix} a_{31} \\ a_{41} \end{bmatrix} \cdot \begin{bmatrix} x_1 \\ x_1 \end{bmatrix}$$

$$ry\phi = add_pd(ry\phi, ra\phi);$$

$$\begin{bmatrix} a_{11}x_1 \\ a_{21}x_1 \end{bmatrix} = \begin{bmatrix} a_{11}x_1 \\ a_{21}x_1 \end{bmatrix}$$

$$ry\phi: \quad a_{11}x_1 + a_{12}x_2 + \dots + a_{1n}x_n \rightarrow y_1$$

$$a_{21}x_1 + a_{22}x_2 + \dots + a_{2n}x_n \rightarrow y_2$$

$$ry1: \quad a_{31}x_1 + a_{32}x_2 + \dots + a_{3n}x_n \rightarrow y_3$$

$$a_{41}x_1 + a_{42}x_2 + \dots + a_{4n}x_n \rightarrow y_4$$