

Host

Scalars  $r, r_1, r_2$

Vectors  $x, y$

$$r := \begin{bmatrix} x_1 \\ x_2 \\ x_3 \\ x_4 \end{bmatrix}^T \cdot \begin{bmatrix} y_1 \\ y_2 \\ y_3 \\ y_4 \end{bmatrix}$$

$$:= r_1 + r_2$$

Device 1

Vector tiles

$$r_1 := \begin{bmatrix} x_1 \\ x_2 \end{bmatrix}^T \begin{bmatrix} y_1 \\ y_2 \end{bmatrix}$$

Distributed  
to devices

$$r_2 := \begin{bmatrix} x_3 \\ x_4 \end{bmatrix}^T \begin{bmatrix} y_3 \\ y_4 \end{bmatrix}$$

Device 2

Vector tiles