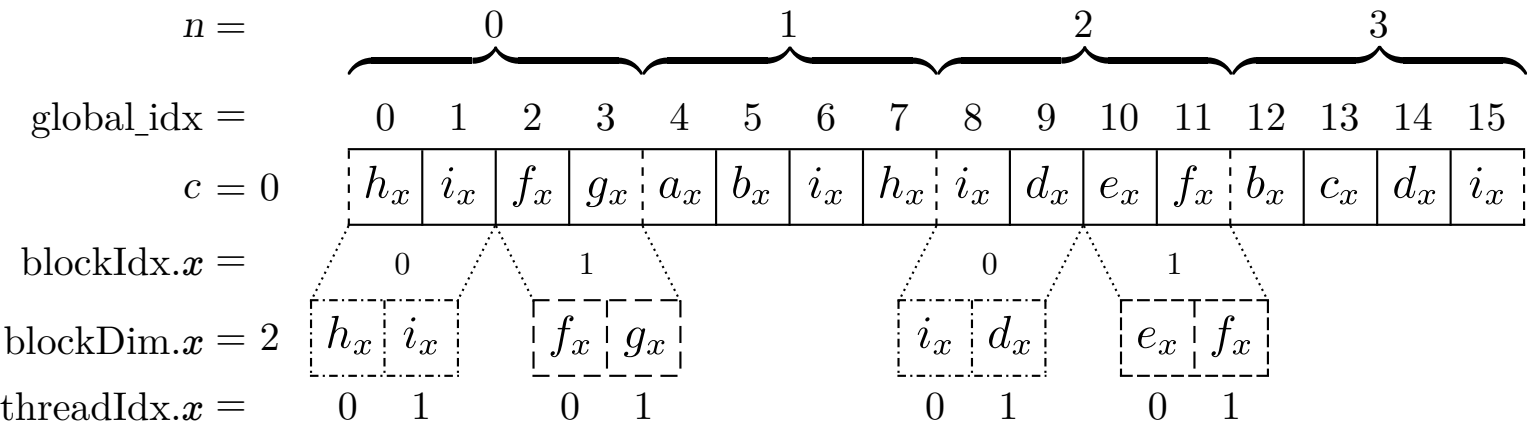


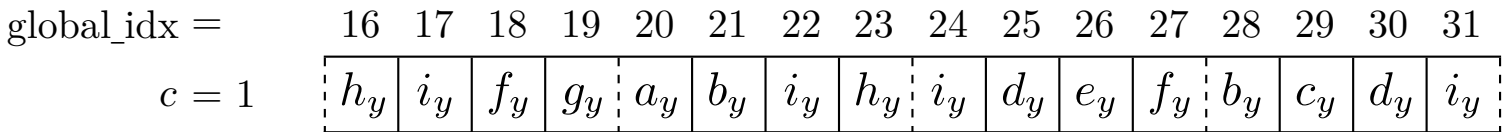
$$N = 4, \quad E = 4$$



$$\begin{aligned} \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_0^0[0] \leftarrow \mathbf{X}^E[(0+0 \times 2) + (0 \times 4 \times 4) + (0 \times 4)] \\ \mathbf{X}_0^1[0] \leftarrow \mathbf{X}^E[(1+0 \times 2) + (0 \times 4 \times 4) + (0 \times 4)] \end{array} \right. \\ \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^0[0] \leftarrow \mathbf{X}^E[(0+1 \times 2) + (0 \times 4 \times 4) + (0 \times 4)] \\ \mathbf{X}_3^0[0] \leftarrow \mathbf{X}^E[(1+1 \times 2) + (0 \times 4 \times 4) + (0 \times 4)] \end{array} \right. \end{aligned}$$

Increase n

$$\begin{aligned} \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^0[0] \leftarrow \mathbf{X}^E[(0+0 \times 2) + (0 \times 4 \times 4) + (2 \times 4)] \\ \mathbf{X}_2^1[0] \leftarrow \mathbf{X}^E[(1+0 \times 2) + (0 \times 4 \times 4) + (2 \times 4)] \end{array} \right. \\ \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^2[0] \leftarrow \mathbf{X}^E[(0+1 \times 2) + (0 \times 4 \times 4) + (2 \times 4)] \\ \mathbf{X}_3^2[0] \leftarrow \mathbf{X}^E[(1+1 \times 2) + (0 \times 4 \times 4) + (2 \times 4)] \end{array} \right. \end{aligned}$$



$$\begin{aligned} \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_0^0[1] \leftarrow \mathbf{X}^E[(0+0 \times 2) + (1 \times 4 \times 4) + (0 \times 4)] \\ \mathbf{X}_0^1[1] \leftarrow \mathbf{X}^E[(1+0 \times 2) + (1 \times 4 \times 4) + (0 \times 4)] \end{array} \right. \\ \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^0[1] \leftarrow \mathbf{X}^E[(0+1 \times 2) + (1 \times 4 \times 4) + (0 \times 4)] \\ \mathbf{X}_3^0[1] \leftarrow \mathbf{X}^E[(1+1 \times 2) + (1 \times 4 \times 4) + (0 \times 4)] \end{array} \right. \end{aligned}$$

Increase n

$$\begin{aligned} \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^0[1] \leftarrow \mathbf{X}^E[(0+0 \times 2) + (1 \times 4 \times 4) + (2 \times 4)] \\ \mathbf{X}_2^1[1] \leftarrow \mathbf{X}^E[(1+0 \times 2) + (1 \times 4 \times 4) + (2 \times 4)] \end{array} \right. \\ \text{Parallel execution } \left\{ \begin{array}{l} \mathbf{X}_2^2[1] \leftarrow \mathbf{X}^E[(0+1 \times 2) + (1 \times 4 \times 4) + (2 \times 4)] \\ \mathbf{X}_3^2[1] \leftarrow \mathbf{X}^E[(1+1 \times 2) + (1 \times 4 \times 4) + (2 \times 4)] \end{array} \right. \end{aligned}$$