

original ijk

$$C = A \times B$$

inner loop

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} = \begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array} \times \begin{array}{|c|} \hline k \downarrow \\ \hline \end{array}$$

tilted - inner 3-loop instance

$$\begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array} \stackrel{b_{size}}{=} \begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array} \stackrel{b_{size}}{=}$$

A B

inner loop

$$\begin{array}{|c|} \hline \square \\ \hline \end{array} \stackrel{+}{=} \begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array} \times \begin{array}{|c|} \hline \text{|||||} \\ \hline \end{array}$$

each iteration of the inner loop does

loads	stores	tot-mem	A-miss	B-miss	C-miss	tot-miss
2	0	2	.125	0	0	.125