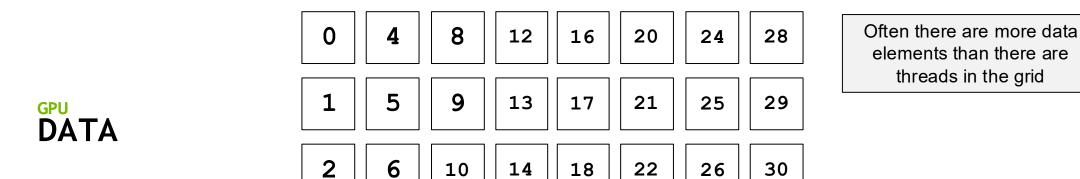
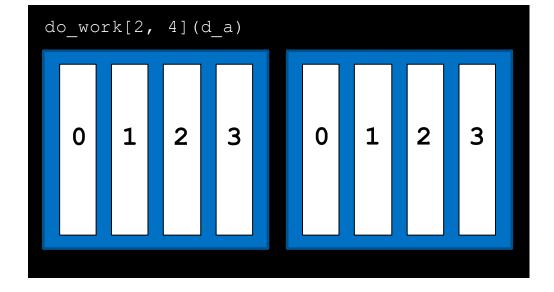
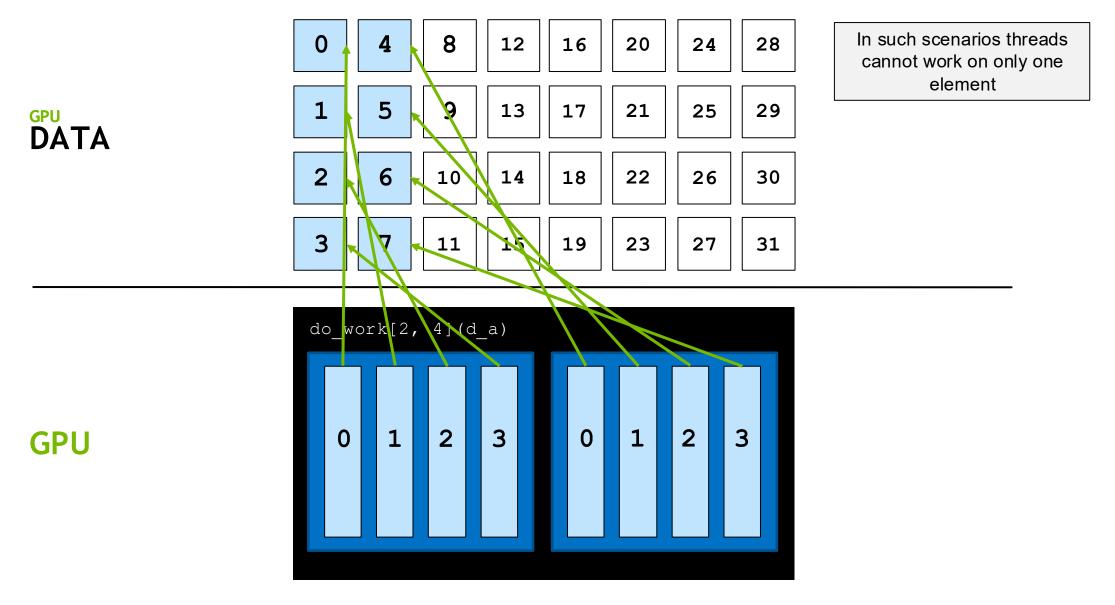
## **Grid-Stride Loops**

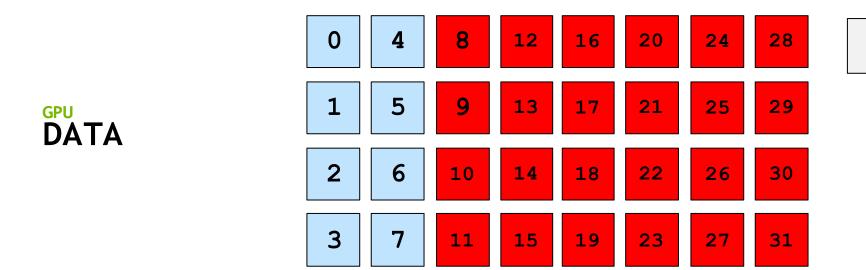


3 7 11 15 19 23 27 31



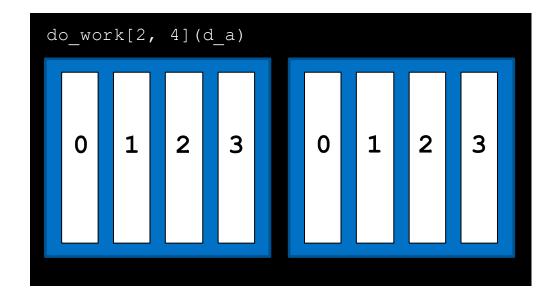




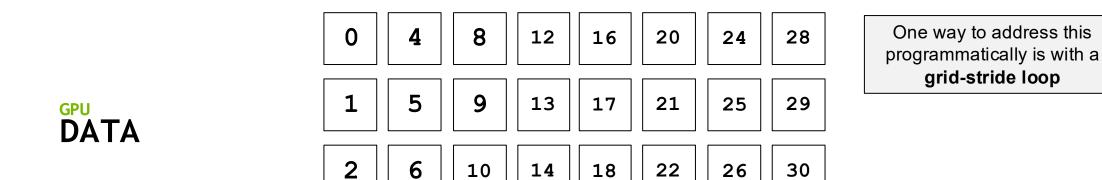


... or else work is left undone

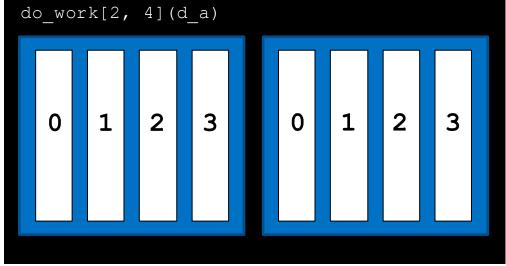




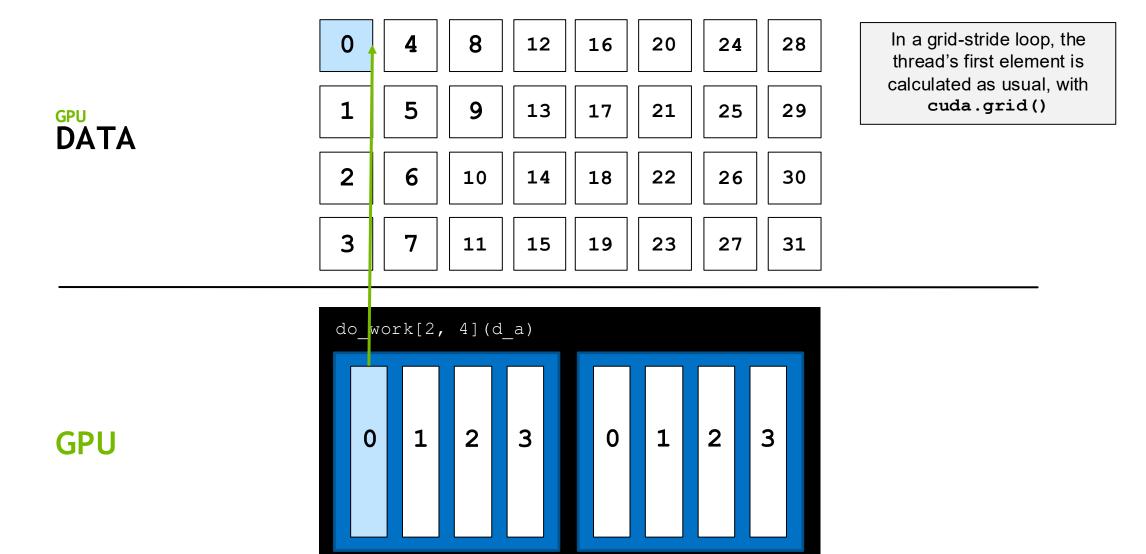


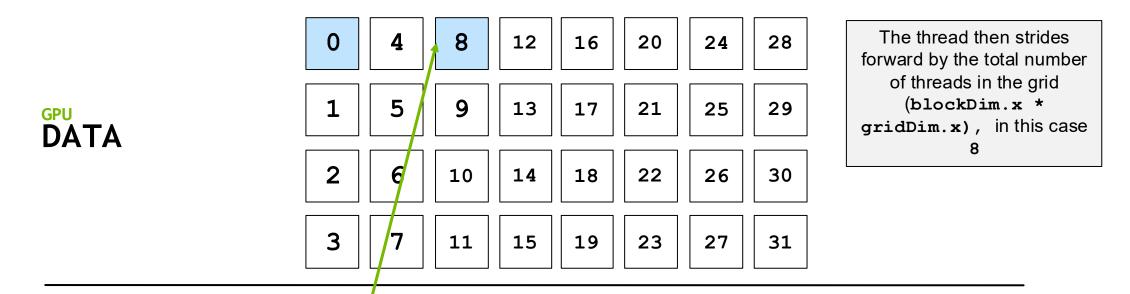


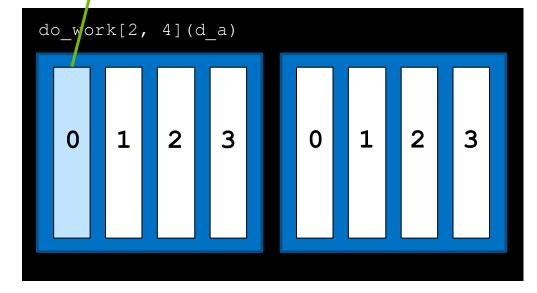
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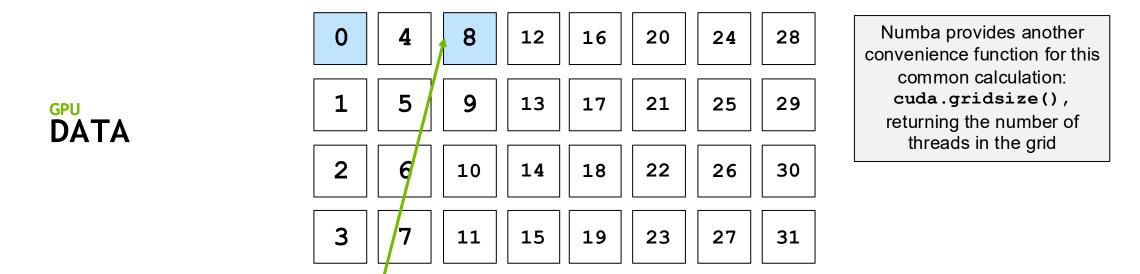


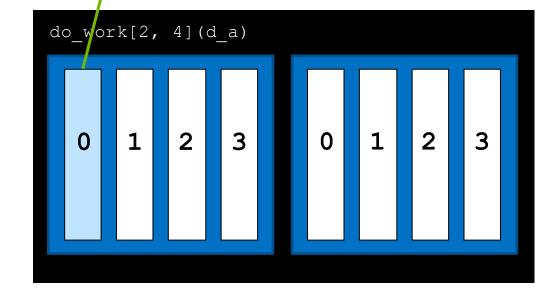




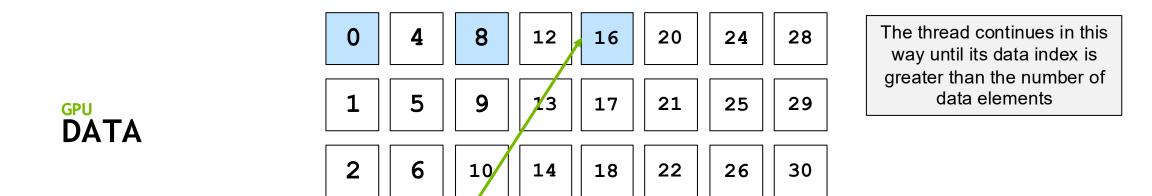


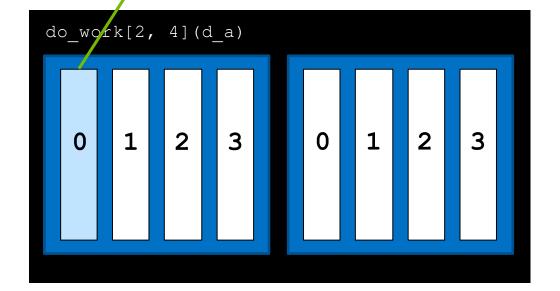


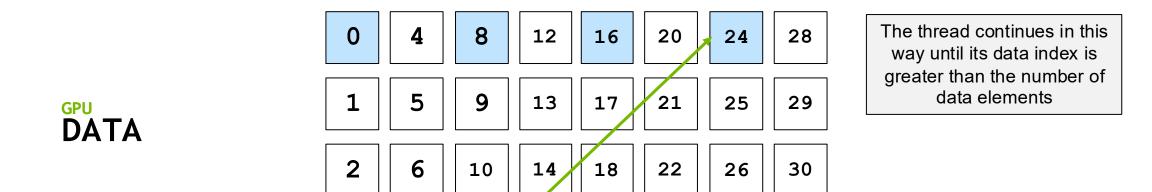


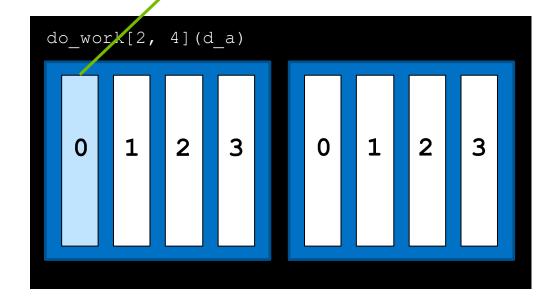




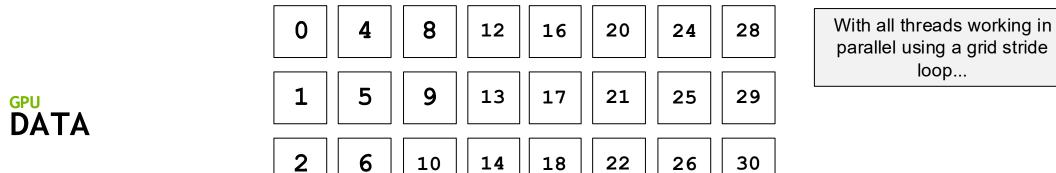






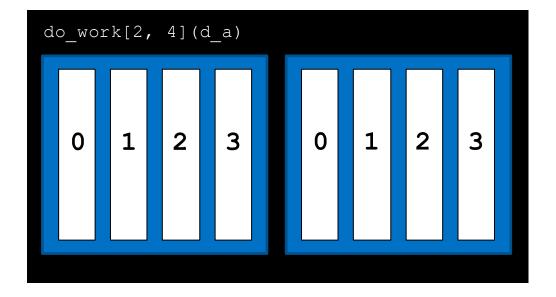




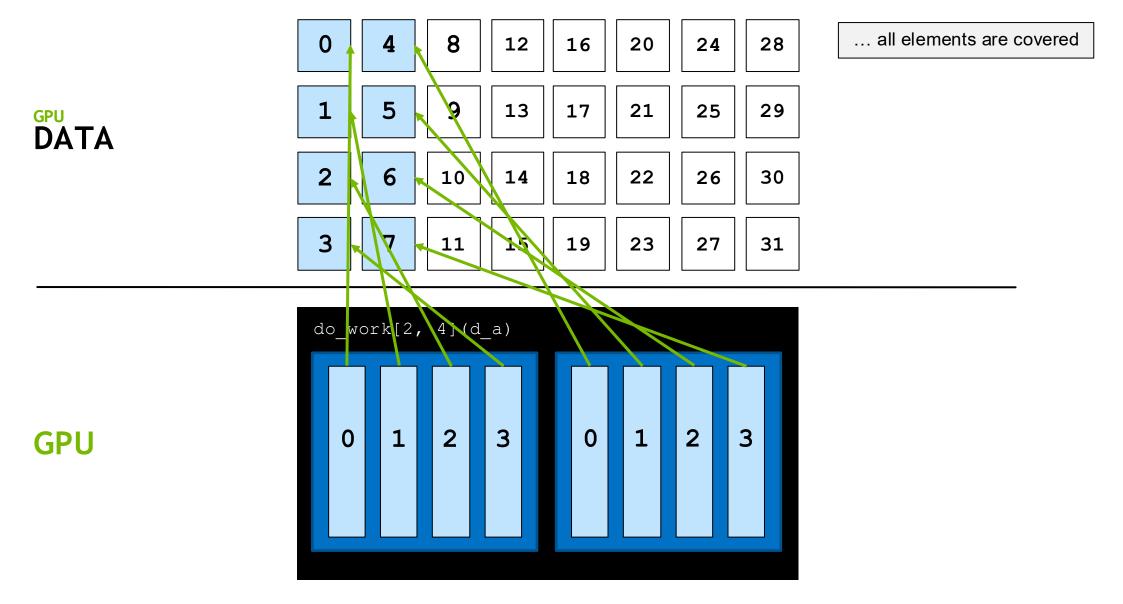


parallel using a grid stride loop...

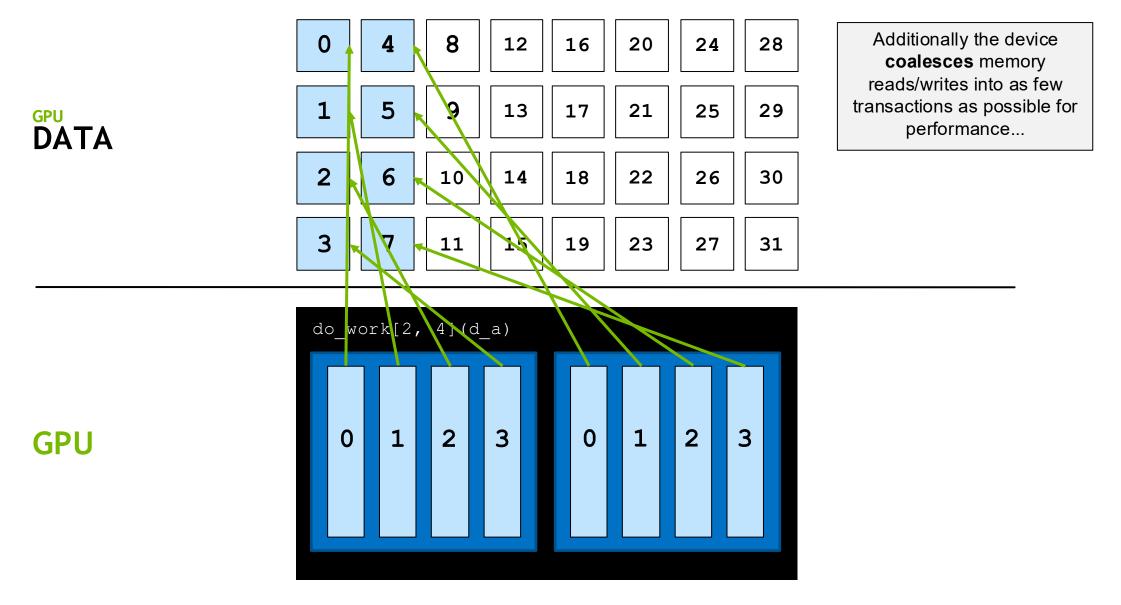


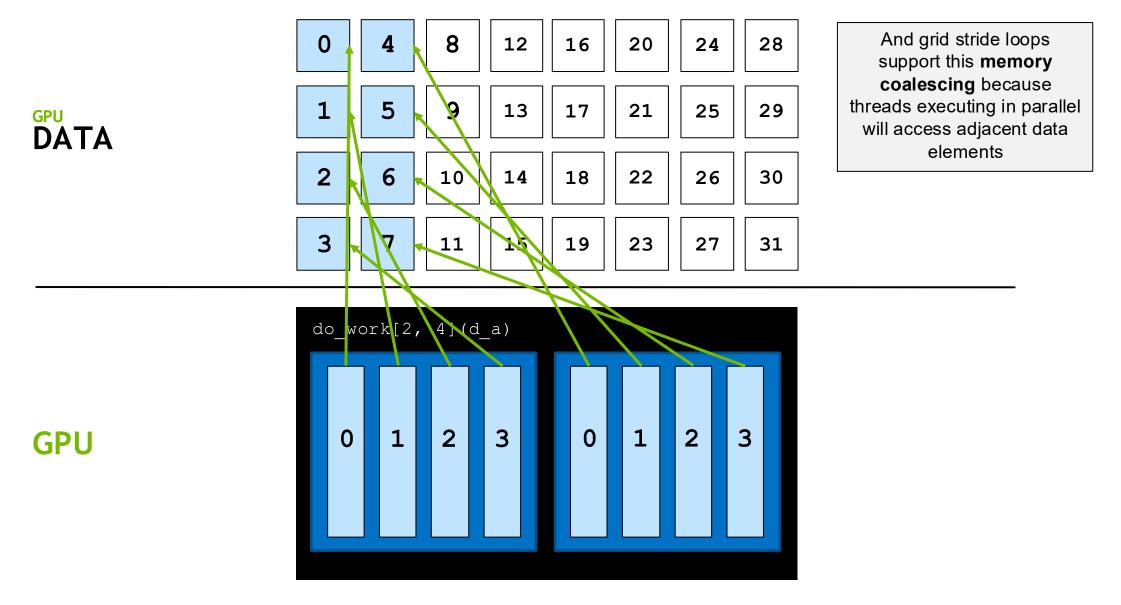


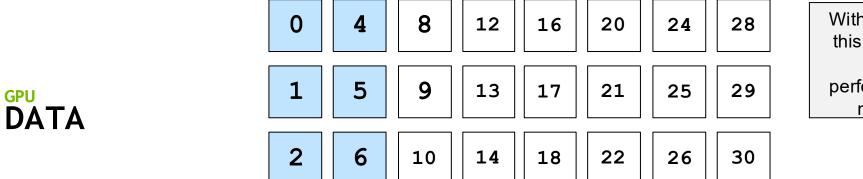






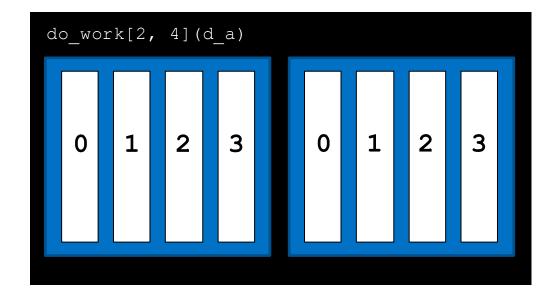




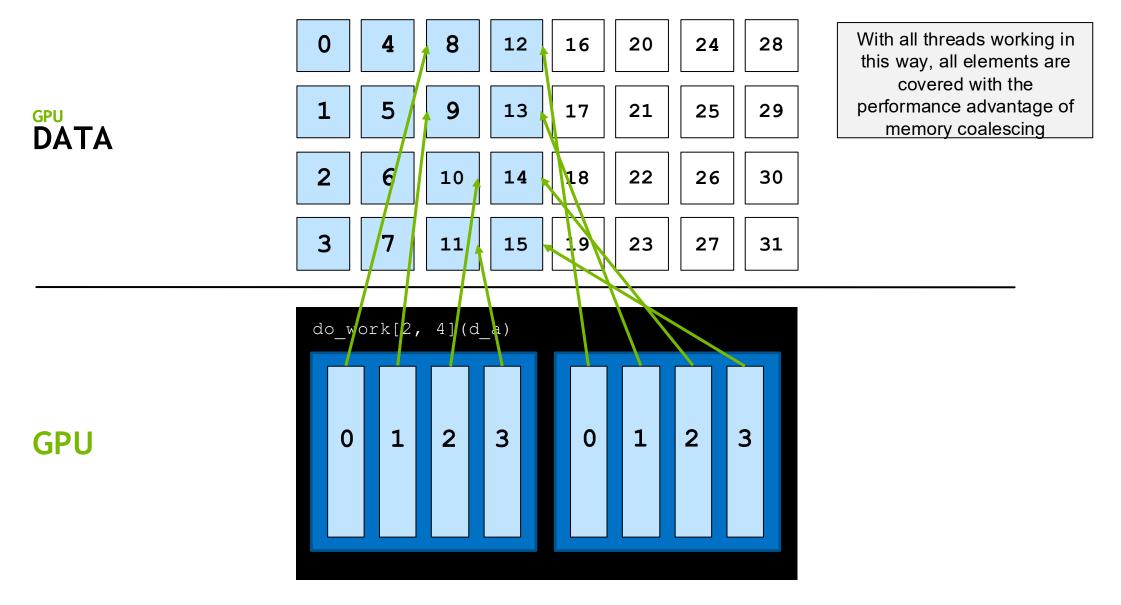


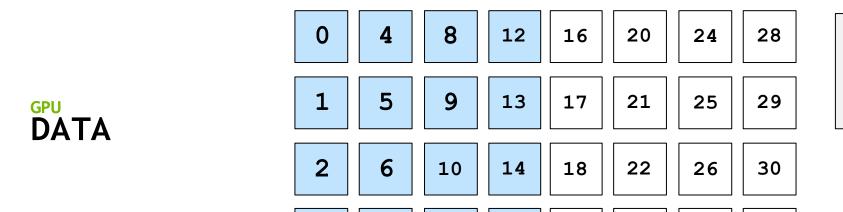
With all threads working in this way, all elements are covered with the performance advantage of memory coalescing





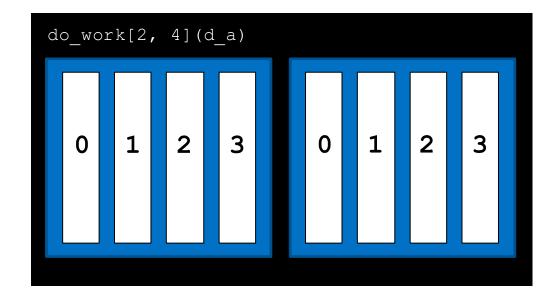




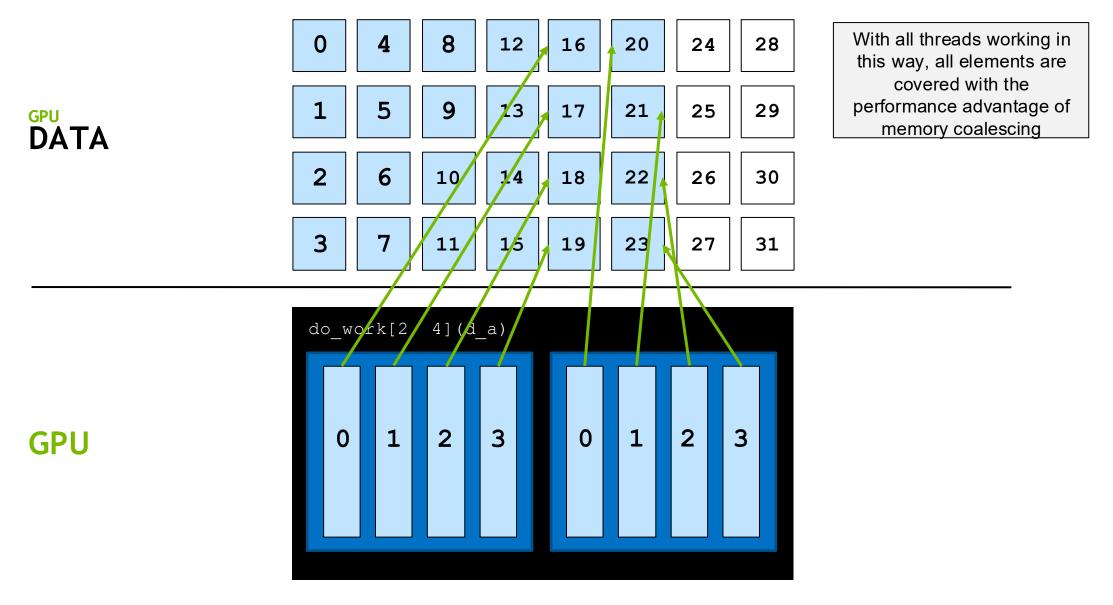


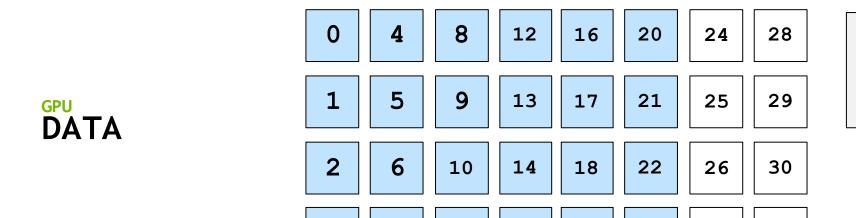
With all threads working in this way, all elements are covered with the performance advantage of memory coalescing





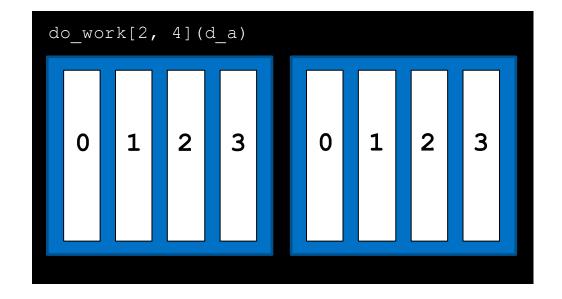




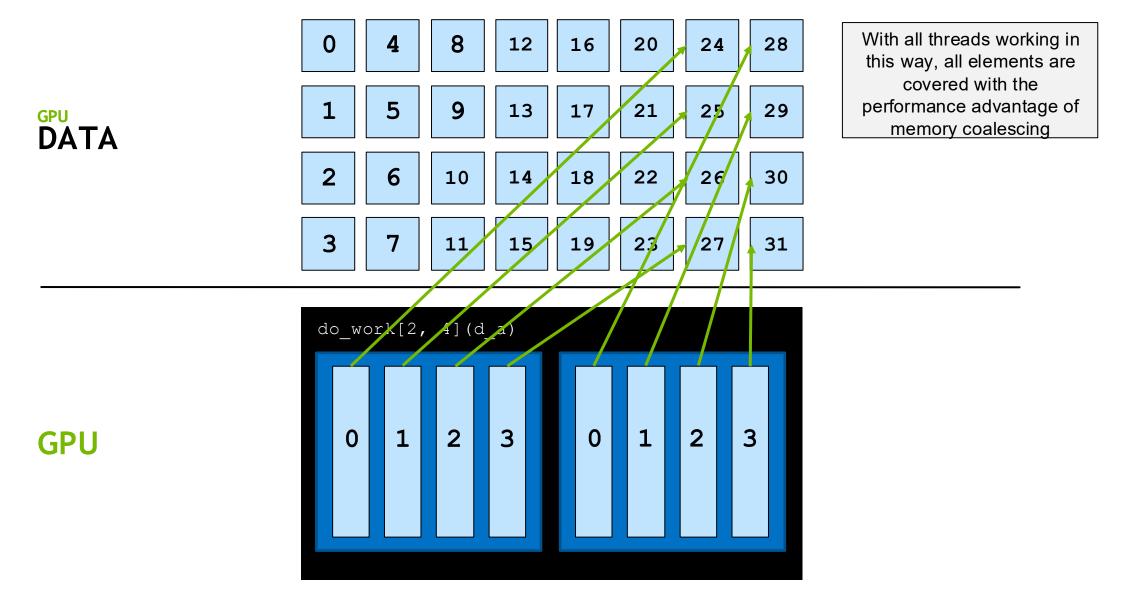


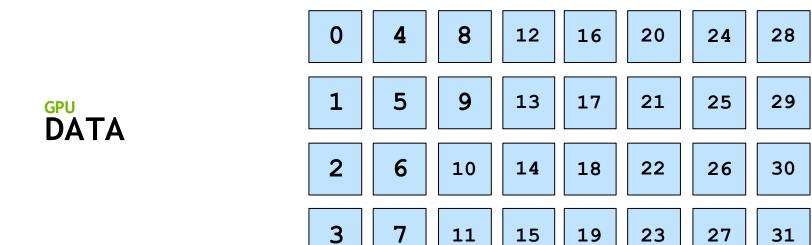
With all threads working in this way, all elements are covered with the performance advantage of memory coalescing

## **GPU**









With all threads working in this way, all elements are covered with the performance advantage of memory coalescing



