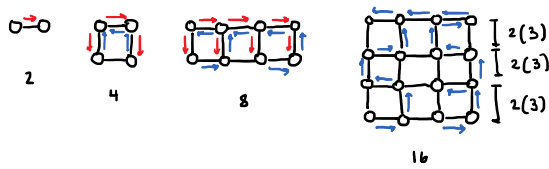


e. What's the problem when trying to use a communication network of type Commuted-Direct-2D?



The problem is that, due to the rows of connections in this network, the only parallel communication to transfer partial results to other processors can be the communications per row. Thus, the next row of processors needs to wait for the communication of the below row to be done (3 seconds) until it can receive their partial sums, and so on. The synchronization time depends and grows with the amount of rows the grid has, which is a problem in big networks.