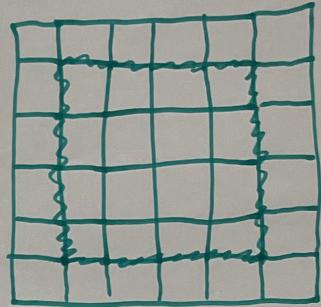


order

$$W = 4, Q = 20, T_0 = \frac{1}{\frac{1}{4} + 2}, T = \max\left(\frac{W}{Q}, \frac{Q}{W}\right) + T_0.$$



## #4: 2D stencil loop problem #

### #1: Inspect 500

Looking at the architecture graph, we can see that:

- SIMD seemed to be popular during 1993-2003 but it died out

- SISD wasn't used that much and it died quickly in the 1990s

- MPP and clusters seem to be based on SIMD and they've been dominating the shares since the beginning. Currently, they occupy over 99.9%

### #3: Draw schematic plot

Amdahl's law (strong scaling). Gustafson's law (weak scaling)

