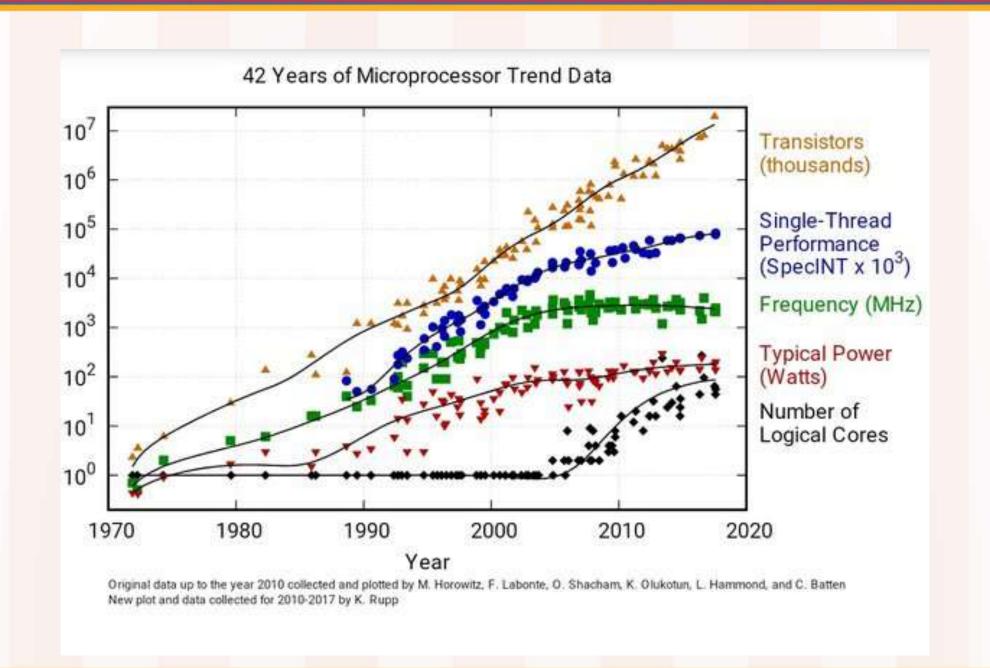
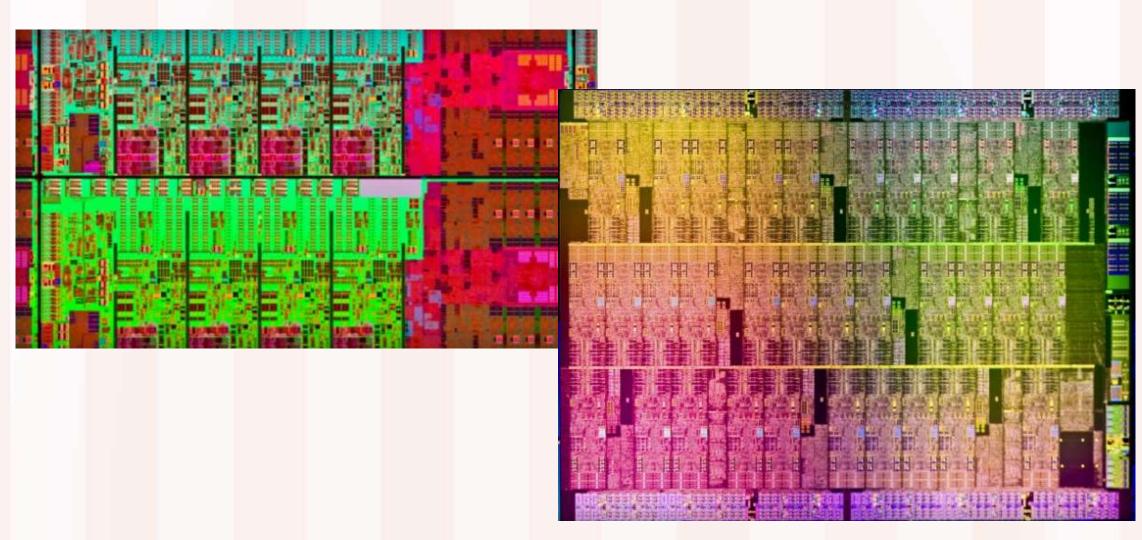


SIMD, vectorization - what it means and how to do it in .NET

Jiří Činčura | www.tabsoverspaces.com



## A Modern Processor



SISD

Single Instruction Single Data

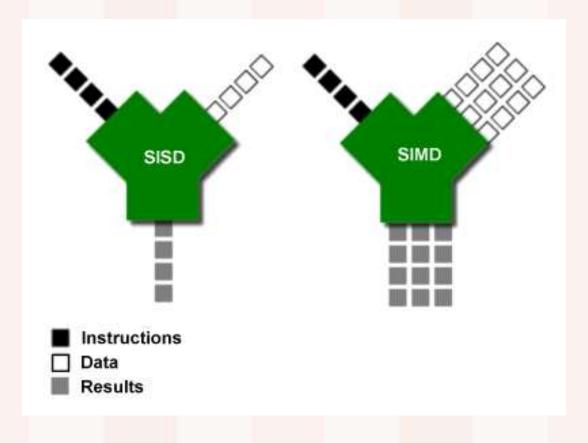
Instruction Level Parallelism (ILP)

Parallel processing

## SIMD

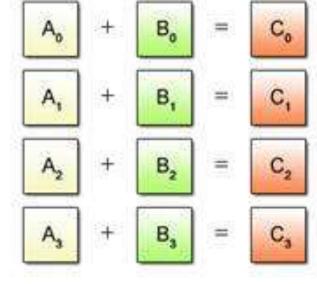
Single Instruction Multiple Data

# SIMD

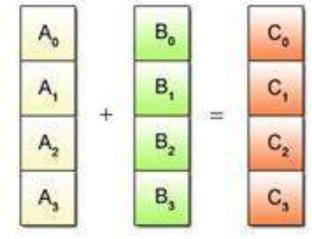


### SIMD

### (a) Scalar Operation



#### (b) SIMD Operation



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