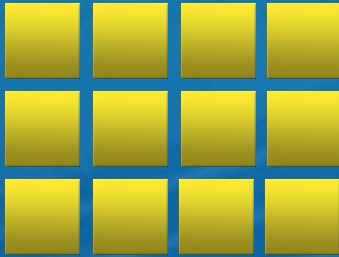


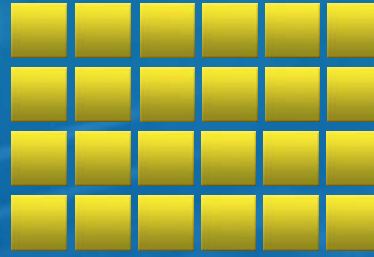
Increasing Throughput through Parallelism

Amdahl's Law: Parallel Speedup = $1 / (\text{Serial}\% + (1 - \text{Serial}\%) / N^*)$

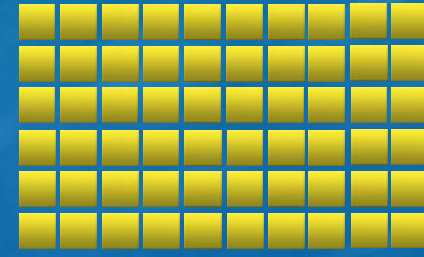
12 Cores



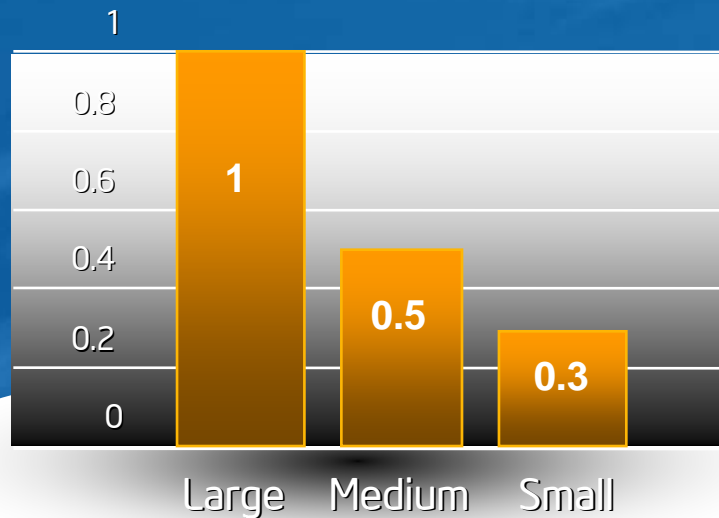
48 Cores



144 Cores



Single Core Performance
Relative Performance



System Performance

