

# 重点提要

2019年4月11日 0:49

1.编译器, 操作系统, 多线程和良好的内存管理 可以从底层(相对硬)方面帮助软件提升效率

2.趋势:    发展晶体管  
             发展多核处理器  
             性能提升放缓  
             功率墙和温度墙

## Concluding Remarks

- Knowledge of hardware improve
  - ◆ compilers, OS, threaded programs,
- Important trends:
  - ◆ growing transistors
  - ◆ move to multi-core
  - ◆ slowing rate of performance improvement
  - ◆ power/thermal constraints
- Reasoning about performance: classical benchmark suites, performance evaluation

s software quality:  
memory management

vement

lock speeds, CPI,  
equations