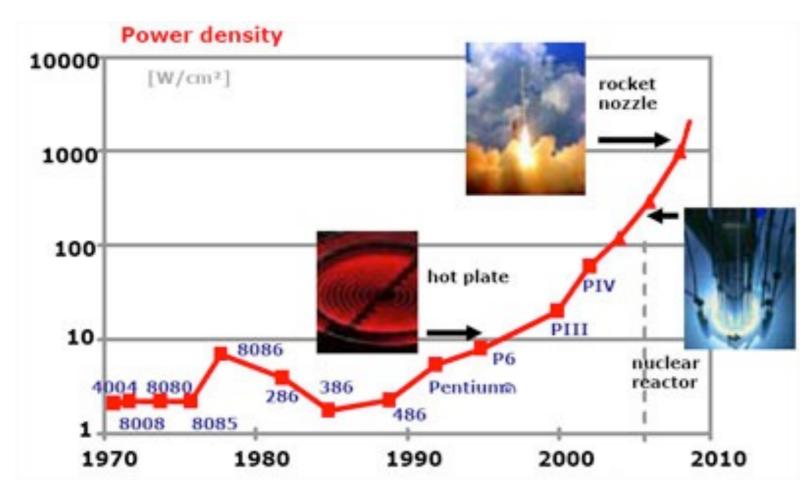
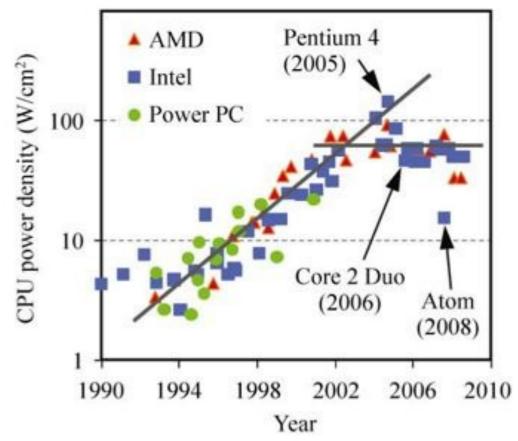
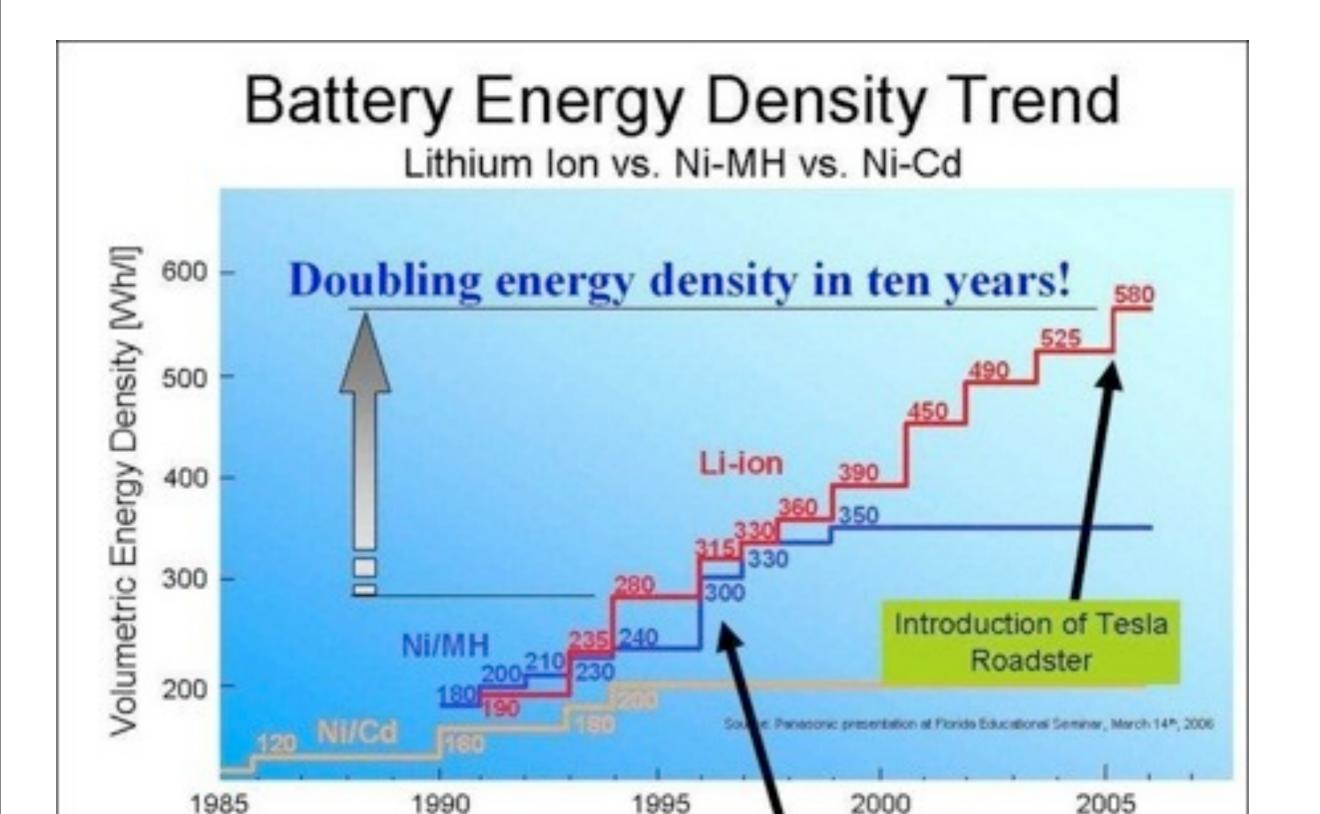
548

Lecture 12 - Power

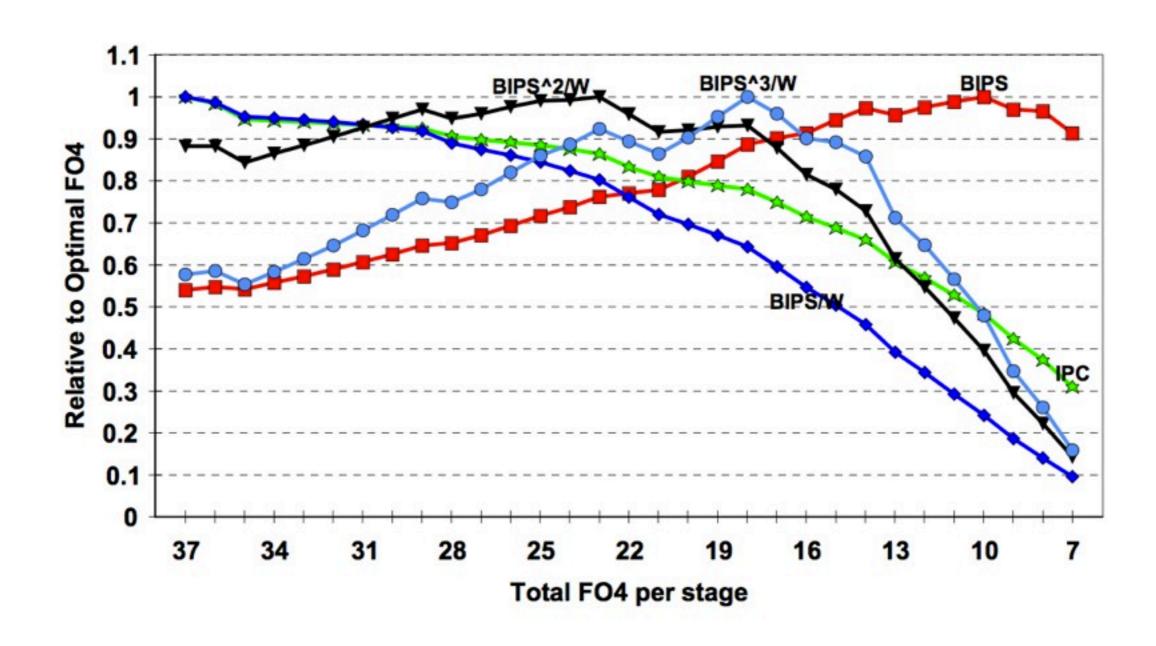






Year

Introduction of EV1



Power limitors

- battery life
- heat
- cost
- distribution (~ 1/3-1/2 of pins are power!)
- Design of the xtr 0vdd (Vt ~ 0.6v)

Why BIPS³/W?

What is "dark silicon"?

 Can only use a small amount of manufacturable silicon at a given time because of power constraints

Amdahl's Law

 An improvement technique only improves to the fraction of the problem that it applies too.