

Low Voltage For Better Efficiency

Power \sim Voltage³, Performance \sim Voltage

Energy Efficiency = Performance/Watt \sim 1/Voltage²

Nehalem low voltage technologies enabled voltage scaling

- Most sophisticated error correction in the industry (triple detect, double correct)
- Decoupled LLC Power Delivery
- Temperature Compensation enabled by Power Control Unit
- Core memory converted from 6-T traditional SRAM to 8-T SRAM

