University of Central Florida

A Comparison of Various Multi-core/Many-core Architectures

Huiyang Zhou



School of Electrical Engineering and Computer Science University of Central Florida

<section-header> Challenges facing microprocessors More's law still holds Smaller transistor size More transistors Hore transistors Power wall Voltage does not scale Power density problem Memory wall Higher latency to hide Mininishing returns in performance Worsen the power problem











University of Central Florida

