

RMS: Emerging general purpose workloads that will drive the need high performance platform architectures



## RMS workloads should scale well to 100s of execution threads



## Value = Performance + Architectural Innovation

Scalar plus many core for highly threaded workloads


Large, Scalar cores for high single-thread performance



Multi-core array

- CMP with ~10 cores



## Many-core array

- CMP with 10s-100s low power cores
- Capable of TFLOPS+
- Full System-on-Chip
- Servers, workstations, embedded...


## Dual core

- Symmetric multithreading

Evolutionary

