Multicore – Trends & Opportunities

Suresh Srinivas
suresh.srinivas@intel.com
Principal Engineer
Software & Services
Hardware Diversity

Intel® Many Integrated Core Architecture (Intel® MIC Architecture)

Multi-core Intel® Xeon® processor
And More Standard Implementations:
OpenCL, OpenMP, Intel® SPMD Program Compiler (ISPC)

Parallel Pattern Library, Task Parallel Library (Managed)

Innovation: Concurrent Collections (CnC), RiverTrail (JavaScript extensions), MS LINQ
Opportunities

- Developer
  - Android
  - HTML5, …

Integration

- Tool & SW Design
- Build/Debug
- Verify
- Tune

- Platform HW
  - CPU+GPU
  - Hetero,