TUTORIAL S9 OUTLINE

The Shared Address Space Programming Model
Execution Models
Memory View
Consistency and Synchronization
The UPC Programming Language
  Background
  Programming Model
  Data and Pointers
  Dynamic Memory Allocation
  Synchronization
  Work Sharing
  Case Studies and Optimizations
  Language Specifications and Current Implementations
Libraries

Co-Array Fortran
  What is Co-Array Fortran
  Memory Model and Runtime Support
  Syntax and Semantics
  Synchronization and Control
  I/O
  Developing Codes
  Examples

Titanium
  Introduction to Titanium
  Additions to sequential Java for high sequential performance, including multidimensional arrays and unboxed objects.
  The global memory model in Titanium and static analysis to improve performance of global pointers.
  Design of distributed data structures using this model.
  A region-based memory model for high performance with safety.
  Automatic and manual optimizations of Titanium programs for clusters.
  Applications