Associative Memory Implementation Using Tuple Spaces

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Introduction

- Parallel Programming
- IEL and MPI
What is Associative Memory?
• Tuple Space
  ◦ Made up of tuples that contain
    • A key used for matching
    • Zero or more arguments
  ◦ Perfect Candidate for a database
  ◦ Performance?
    • Consider the implementation to the tuple space.
Current Objectives

1. Implement multiple tuple spaces on multiple processors
2. Redesign the existing IEL to communicate with multiple tuple spaces
3. Add a master tuple space that facilitates communication between users and multiple tuple spaces
Questions?