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## An Introduction L1el Programming Peter Pacheco Book Torrent .pdf Full

Program Partitioning; Task Scheduling; Scheduling System Model; Communication Models; Optimal Scheduling Algorithms; Scheduling Heuristic Algorithms; Scheduling Nondeterministic Task Graphs; Scheduling Tools; Task Allocation; Heterogeneous Environments  
**2.5. Checkpointing in Parallel and Distributed Systems (3 hrs)**  
Introduction; Checkpointing Using Task Duplication; Techniques for Consistent Checkpointing  
**2.6. Architecture for Open Distributed Software Systems (2 hrs)**  
Introduction to Open Distributed Systems Architecture; Computational Model; Engineering Model; ODP Application

### Unit 3: Algorithms

#### 3.1. Fundamentals of Parallel Algorithms (3 hrs)

Introduction; Models of Parallel Computation; Balanced Trees; Divide and Conquer; Partitioning; Combining

#### 3.2. Parallel Graph Algorithms (5 hrs)

Graph-Theoretic Concepts and Notation; Tree Algorithms; Algorithms for General Graphs; Algorithms for Particular Classes of Graphs

#### 3.3. Data Parallel Algorithms (5 hrs)

Chapter Overview; Machine Model; Impact of Data Distribution; CU/PE Overlap; Parallel Reduction Operations; Matrix and Vector Operations; Mapping Algorithms onto Partitionable Machines; Achieving Scalability Using Set of Algorithms

#### Recommended Books:

1. Parallel and Distributed Computing Handbook, Albert Y. Zomaya, Editor, McGraw-Hill
2. Introduction to Parallel Computing: Ananth Grama, Anshul Gupta, George Karypis, Vipin Kumar; Pearson Education
3. An Introduction to Parallel Programming, Peter Pacheco
4. Quinn, Michael J., Parallel Programming in C with MPI and OpenMP, McGraw-Hill, 2004.
5. Quinn, M., Parallel Computing: Theory and Practice, McGraw Hill, 1994.

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