

Scheduling of Multi-stage Batch Processes Using Dynamic Decomposition on a Grid

- Computer manufacturers focus on multi-core architectures; computational resources become cheap
- Algorithms that utilize new architectures or exploit parallelization necessary
- Batching/scheduling problems have hierarchy of decisions
 - Selection of tasks \Rightarrow Unit-task assignments \Rightarrow Task sequencing
- Exploit hierarchy to generate subproblems spawned to workstations
- Hard subproblems are dynamically decomposed
- Successful implementation using grid computing

