

Parallel Computing Overview

Concepts

Terminologies

Architectures of Distributed
Memory Systems

Parallel Programming Models

shared
memory models

distributed
memory models

task-based
parallel models

Research Object

task-based
parallel runtimes

task-based
parallel applications

Research Problem

Dynamic Load Balancing

Constraints

Performance
Slowdown

Communication
Overhead

Related Work & State-of-the-Art

Work Stealing

Reactive Load
Balancing