IE 495 Lecture 5

September 12, 2000

Course Recap





Classifying and Modeling Architectures



Analyzing Architectures and Algorithms

Lecture 2

Analyzing Architectures

Interconnection Networks

Performance Measures

Graph Properties

Degree **Bisection Width Communication Diameter Connectivity Matrix** Adjacency Matrix

Time to Perform Operations

Semigroup operations Sorting operations

Lecture 3 and 4

Analyzing Algorithms

Asymptotic Analysis

Modeling Assumptions **Classifying Algorithms**

> Orders of Magnitude Zequivalence Classes Polynomial/Exponential **Time Complexity Space Complexity**

Order Relations/

Induction and Recursion

Master Theorem