# CptS 464/564
# Lecture 13

25th February 2003

## Housekeeping

Today: hand in homework 2;

Reminder: Mid-term exam is next Thursday, March 6.

There is just a little bit to finish up from Chapter 2 today, after which we will cover Chapter 3 today and in the next two lectures.

## Distributed Systems Models

Idea here is to pull together ideas from the first two chapters to look at how they fit together in whole systems. We touch again on things said before with the intent of providing greater clarity and depth.

### DS Frameworks

- Infrastructure - what are the resources; how should they be organized? Why?
- Semantics - which paradigms are appropriate in a given situation, in order to achieve the architectural objectives
- Models - for organizing one's thinking about DS activities and services
- Distribution of information repositories
- Access paradigms - how do users access services?
- Note this matter of terminological confusion: we're using the term *frameworks* here to mean logical and conceptual frameworks. How do we organize our thinking about these matters. The term *framework* is also applied to specific software systems that embody (partial) design solutions in a particular space. For example, CORBA would be called a low-level framework for distributed computing.

**Infrastructure**

Infrastructure includes hardware, networks, OS support. Networking infrastructure is perhaps the most important for DS: important considerations

- is it a private network (within a single organization)? (intranet)
- does it use a public network such as the world-wide Internet?
- does it hook two (or more) intranets together more or less privately (extranet)