Hi All,

While I will answer questions regarding the final exam in class today, I wanted to make sure that I gave everyone the same advise regarding the exam in case there are any absences today.

As of a few minutes ago, the final exam has five problems (120 points total):

Three 30 point problems.
Two 15 point problems.

I may introduce another 15 point problem (to give you an option to select 2 out of 3 of the 15 pointers). All of the problems involve the UConn X-CHG handout on the web page as a basis for answering the questions. The handout and figure on reuse WILL NOT be needed for the exam.

The material covered includes all of the topics on the reading list web page at:

http://www.engr.uconn.edu/~Esteve/Cse298300/finalexam.html

To guide you somewhat, below are some remarks about the material:

Software Architectures - you need to be familiar with the material and be able to apply the different architectural styles to X-CHG.

UML - there are no explicit questions that require you to create a UML diagram. However, UML diagrams play a big role in the material (use-case, class and sequence for security, and component/deployment for optimality). In addition, you should be familiar with the object diagram of UML.

Optimal Object Deployment - you are not required to understand the formalisms, but you are required to understand the concepts, the five levels of modeling, etc.

Refactoring/reuse - reuse at both the code level and the UML level are relevant. The papers on ICSR02 and JIISIC03 are NOT needed. The Base Paper and PSSR01, and the Reuse in UML paper are required.
Service-Oriented Architectures and Middleware: You have to be familiar with one type of middleware (CORBA, .NET, or JINI) in order to answer one of the exam questions. In addition, remember I emphasized the three different architectural examples in the Final Exam Advice PPT.

Security:
- There are no explicit questions that involve the Bell/La Padula and Orange Book, but you must be familiar with MAC, RBAC, DAC concepts.
- Please read the dynamic coalition problem paper (SACMAT02) and think about its relevance for X-CHG.
- Doan's work on Secure Software Design with UML is required (concepts and ideas - I will not ask you to deal with formalisms).
- Pavlich's work on Role Slice Diagram with AOP is required (concepts and ideas - there will be a focus on the role slice diagram - again - no formalisms).
- Distributed Security - there are no questions per se but some of the ideas may be useful in answering a question or two - no need for the PhD draft. Remember, there is a paper on delegation that reviews delegation concepts.

In closing, in addition to applying the material to X-CHG, you are also required to extend and enhance concepts, explore the interplay among the various course topics, and analyze.