Announcement

- Email inbox cleanup
- HW #1 grading almost done
  - Your score will be on Blackboard
  - Comments with deduction detail will be sent to you via email
- HW #2 grading began
- HW #3 part 1 has been disseminated
- HW #3 part 2 will be out soon
HW #3 Overview

- Software design in depth

- Two parts
  - Part 1: individual design and modeling
  - Part 2: collaborative design and modeling

- Goal
  - Experiencing more realistic design decision making
  - Understanding the collaborative software design challenges
Let’s Get Real: Cost of Integrating Cloud

- NGCA integrates cloud computing
  - Pricing varies based on the amount of computation power involved

- Original model
  - Group has 100 threads / execution time of 2

- New model
  - Group has 3 threads / execution time of 6
  - What would happen?

- Your model
  - A number of slave machines that perform the transformation
  - 4 threads / execution time of 6
  - How many slave machines do we need?
Global Software Engineering: Trend & Issues

- Large software systems often developed by distributed teams
- Architects face collaboration challenges

“we often face inconsistencies between components developed by different engineers at later stages. Half of the cases lead to full-scale reverting to earlier stages, and local patches are made for the other half” – from a real-world software architect*

HW #3 Part 2

• Questions we will discuss
  ○ What are the challenges in collaborative software design?
  ○ What are the potential solutions?

• Process
  ○ Forming teams (of two)
  ○ Selecting sessions (one two-hour-long session per team)
  ○ Participating in the session
    ▪ Performing software design in different environments
    ▪ Details will be disseminated later
  ○ Discussing your experience and thoughts
Team Formation

- Find one student from the class
- By noon March 7th
- If you have a partner
  - Send one email per team to BOTH to Margi and Jae
  - Include your and your partners
    - Name/USC ID/Email address
- If you do not have a partner
  - Send us an email
  - Include your
    - Name/USC ID/Email address
  - Let us know in which time zone you are (DEN)
  - We will find you a random partner
Session Selection

- By noon March 11th
  - Send us one email per team to BOTH Margi and Jae
  - FIVE session preferences (ordered)
  - We will try our best to satisfy your preference

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## Timeline

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<tr>
<td><strong>March 7th</strong></td>
<td>Email us with (1) names, (2) USC IDs, and (3) email addresses of your team, or just yours if you don’t have a partner</td>
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<td><strong>March 11th</strong></td>
<td>Email us 5 available times (with priority) for your collaborative session</td>
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<td><strong>March 22nd – 30th</strong></td>
<td>Collaborative design and modeling sessions</td>
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<td><strong>March 31st</strong></td>
<td>HW3 due</td>
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