Comparing System Configurations

4/13/2009

Opening Discussion

- Minute Essay comments
    - High School programming competition went really well.
    - Why isn't there a java.stats package?
    - Simulating computers.

More Than Two Systems

- You have to boost the confidence level for each interval when you have many.

    - For c comparisons use $1-\alpha/c$.

- Use a standard

    - This leads to k-1 comparisons.

- All pairwise

    - If you want to do all pairs, then there are $k(k-1)/2$ comparisons. This will often lead to very wide intervals.

Last Approach

- Comparison with best

  - Do comparisons with the simulation that has the best mean.

  - This will tell you if there really is a statistical difference.

Ranking and Selection

- Take a few samples to start with and use that as an estimate of how many more samples you need to take.

- Only worry about differences of sufficient size.

- The book has a lot of math describing different approaches to raking.

- An alternative is to find a subset that includes the best.

3-D Visualizations

- We started to talk about this some last time, but didn't actually get to the point of rendering anything, in part because for some reason our MD code wasn't behaving nicely.

- Last time we stopped at 2-D visualizations.

Minute Essay

- Any questions?

- The second test is a little over a week from now.