CS411 Case 2: Low-Latency Distributed Applications in Finance

Name:

BUID:

Please read the associated paper, taken from the July 2015 issue of Communications of the ACM, and answer the questions below. Submit you response on Blackboard by the due date.

1. Why was the 2-second response time of the (re-used) customer-facing quote and trade application not sufficient for the new interbank RFQ system?

2. Explain why measuring latency across distributed applications can be challenging.

3. In the example of speculative pre-computation, why is the pre-comp approach faster than the traditional approach?

4. How did the author solve the problem of lag while receiving a document by FTP that needed to be parsed before a trade decision could be made?

5. Think of a web site that you personally use that displays significant delay in one or more of its functions. Describe the situation, and how you think the site's problem could be solved.