COP 5615 FALL 2014

Project 4: Twitter Simulator

Part - I

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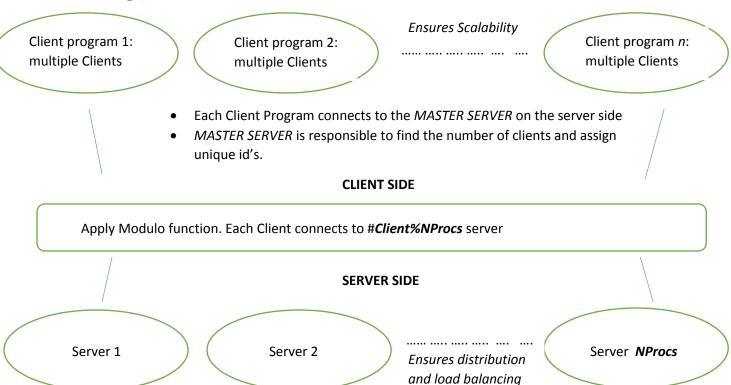
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Program Design

- Multiple Clients can hit the twitter server at any time scalability considered
- Tweets and Followers are distributed across the cores of the server distributed architecture/load balancing

The design:



The algorithm:

- 1. Each client connects to #client%NProcs server where NProcs is the number of processors in the server side
- 2. Foreach(client c : c ∈ numClients) {
 FollowPeopleAndTweet () =>
 List follows: List[random Integers in range (0 to numClients)]
 Send follows to server # x%NProcs
 Sleep(250ms)
 Tweet()
 Sleep(1000ms)
 askForTweetsItCanSee()
 }

4. Program is not designed to terminate.