



Home 

Announcements 


Assignments 

Assessments 


Chat Room 


Discussions 


Gradebook 


Gradebook 2 


Learning Module 

Lessons 

Mail 

Resources 

Site Info 

Syllabus 

Wiki 

Feedback 

Roster 

Help 

EEL6935: 022A , Fall 2013: Assignments

Assignment - In progress

Add attachment(s), then choose the appropriate button at the bottom.

Title	Programming Assignment 2
Due	Oct 28, 2013 11:55 pm
Status	Not Started
Grade Scale	Points (max 100.0)

Instructions

Programming Assignment 2

Due by 11:55pm, Oct. 28, 2013

Given the sample graphs (as attached, each line starts with the nodeid + its adjacency list),.

Develop an iterative MapReduce program to implement PageRank using Amazon EC2 and FutureGrid to achieve **the following objectives**:

Task 1: For each of the sample graphs (small, medium, large), list the top ten nodes in order of descending PageRank value. In addition, list a summary of each graph property, e.g., number of nodes, number of edges, and (min, max, avg) of out-degree for each node; list the total number of MapReduce iterations for convergence.

Task 2: Run the same program on both FutureGrid and AWS and compare their performance, e.g. total execution time, execution times for the first 10 iterations.

Submissions:

1. Your program, well documented in code and in Readme.doc (the document should include a link to AWS outputdata, and description of your code design in either pseudocode or flowchart or both)
2. Results
3. Screenshots (one set for each platform)

Requirements:

- * Please use non-streaming style programs (either Java, or C++ via Hadoop Pipes)
- * Please use no less than 3 VM instances (more than 2 reducers)

This is by individual.

Additional resources for assignment

 [prog2-sample-small.txt](#) (11 KB; Sep 26, 2013 1:06 pm)

 [prog2-sample-medium.txt](#) (29 KB; Sep 26, 2013 1:06 pm)

