

## CS 485/ECE 440/CS 585 Lab 3

The writeup is due by 11:59pm on Monday, 6 December, as an e-mail to the instructor (jedcrandall@gmail.com). Please send only PDF files. Lab 3 is worth 200 points, graded as follows:

- Implementation and results (100 points): Did you do a significant amount of work, and did your results teach you, me, and the class something interesting?
- Experimental setup and methodology (50 points): Is it clear to me what questions you were trying to answer with your experiments and that you accounted for potential problems that could affect the results negatively? Repeatability is also very important for this part of your grade. Could I give your writeup to another group in the class next year and they'd be able to reproduce your results from scratch?
- Poster presentation (50 points): This is a group grade, not an individual grade, but I expect all members of each group to be actively answering questions about the poster. You'll spend the entire class period presenting your poster to your classmates, but in particular there will be 5-10 minutes where I'll be asking you questions and grading you.

Lab 3 is your final project, which you proposed in Lab 2. Deviations from what you proposed are allowed so long as the results are interesting. The most important things for a good grade will be (1) that you taught the class something they couldn't have learned from the book or Internet and (2) that you clearly spelled out your experimental methodology in a way that someone can understand what you're trying to accomplish and could repeat all the necessary steps if they wanted to check your work.

The length and format of the writeup are up to you, but you must have at least the following three separate sections: one labeled "Implementation" where you describe how to set up the environment you did your experiments in, one labeled "Experimental methodology" where you clearly state what questions your experiments were designed to answer and all of the considerations and caveats that are relevant to the experiments---and then describe the experiments, and a section labeled "Results" where you describe the results that you obtained from the experiments. It's very important that these sections be separated out, and be careful not to put anything in one section that belongs in another, *e.g.*, don't mention any of your results in the experimental methodology section. You can have graphs and such in the experimental methodology section, but they should be motivating the questions you want to ask or giving context to your experiments rather than telling the answers of your results. For an example of how to split up experimental methodology from results, see:

<http://www.cs.unm.edu/~crandall/dfrws10.pdf>

Note, however, that this paper doesn't split up experimental methodology from experimental setup, which I'm asking you to do for pedagogical reasons (basically, to make it easier for me to grade).

**Every single sentence in your writeup should be your own wording and ideas, or there should be a reference attributing it to another source.** In general, in the U.S., it's never okay to cut and paste one or more sentences from something somebody else has written without putting that in quotes and saying where those words came from. For this assignment this will be considered plagiarism and you could receive a 0 on the assignment or be given an incomplete grade and asked to re-do the writeup.

On December 7<sup>th</sup> and 9<sup>th</sup> we'll do poster presentations during the regular class period. Attendance by all is required on these days, whether you're presenting that day or not. You can have your poster printed at Kinkos or put it together with glue and regular printed pages, *etc.*, or you can take a PDF or PowerPoint file of your slides to George Kelbley (kelbley@cs.unm.edu) or Jeff Bowles (jbowles@cs.unm.edu) in CS support on the third floor of FEC and they'll print it for free. You'll need to go to them with the file you want printed the week before the poster presentations, though, *i.e.*, the week of November 29<sup>th</sup> through December 3<sup>rd</sup>, to give them time to print them. Even with that much time they may still say no if they have other time commitments, so please be respectful of George and Jeff's time and be prepared to put your poster together or print it an alternate way if they're not able to print it for you.

Your poster should not have a lot of words on it. Mostly it should be visual aids of your setup and results that you can explain to somebody when they walk up and ask you about your project. At the most, you may want a sentence or two about your methodology or results, but for the most part you want pictures on the poster, not words. For an example of what I think is a good poster in terms of word to picture ratio you can see the one about China's Internet censorship that is hanging outside my office (which a few of your classmates, Leif, Tony, and Veronika, along with Ronnie who's not in the class, presented over the summer in Washington, D.C.). Note that I'm considering Chinese words to be pictures on that poster, since most of our target audience in that case couldn't read those words.

I'll be grading your presentation of the poster more-so than the poster itself, the poster is just there so you have pictures to point to when explaining things to myself and others in the class (graphs, tcpdumps, *etc.*).

Here's when each group will present:

December 7<sup>th</sup>: Abbina, Bai, Hanna; Al-Saleh, Luan, Strnadova; Alvarez Bailleres, Groves, Joginapally; Bloom, Chinnam, Dodda; Danielson, Lin, Lott; Espinoza, Lakksonen, Somasundaravelayudham; Helmy Saad, Jiminez-Vargas, Martinez-Perez; Lawry, Morris, Nandina

December 9<sup>th</sup>: Acton, Guillermo, Harger; Aldaz, Balepur, Wowk; Antognoli, Ensafi, Zhai; Chehk, Jasthi, Land; Donahue, Hecker, Park; Gonzales, Leo, Raynaud; Jaber de Lima, Wang, Zamani; Maine, Murphy-Dye, Qian

I'll invite others from the CS dept. and UNM at large to come view your posters, too. Unless you hear otherwise from me, assume that the poster presentations will be in the classroom where we regularly meet.