

ADVANCED OPERATING SYSTEMS  
EXPERIMENT 1  
Bubblesort!

## 1 Writing it up

No need here to describe what you did your experiments on, nor what we wanted to see and try to understand. Much of that work is done. What remains is to write the outcome. Since this is a class, after all, the write-ups will be done individually. And now for the details. . .

### 1.1 The structure

A short paper of this kind—not a full conference or journal paper—is known as an *extended abstract*. It should comprise the following sections, likely in this order:

1. *Introduction and motivation*: Describe the project, and provide an overview of why the reader should be interested. Give an overview of the experiments and results. Don't bury the lede; if there's a high-level conclusion, give it right up front.
2. *Experimental design*: What did you measure and how did you measure it? **Do not** describe or discuss code; **do** present essential details (e.g., did your experiments account for clearing hardware caches? how?).
3. *Results and analysis*: Show the data (graphically!), and provide description and analysis of what it shows. Address any interesting features of the data, even if it includes the deep analytic observation, *I don't know why it looks like that*.
4. *Conclusion*: So what's the high-level take away? What should the experiments (and the process of creating and analyzing the experiments) teach the reader? What questions arose that remain unanswered? How, if you had more time, might you try to answer those questions?

The paper should be **no more than 5 pages**.<sup>1</sup> Be clear and concise—*Hemingway-esque* in your sparing use of modifiers. Your audience is **not** me; it is one another. Write for another undergraduate CS major who knows what you know, but wasn't part of these experiments.

## 2 How to submit your work

Use the CS submission systems to **submit a PDF of your paper**. Moreover, be sure that your group places **all of its code, data files, and plots** in a shared Dropbox folder.

**This assignment is due on Sunday, Nov-06, 11:59 pm.**

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<sup>1</sup>Double spaced. And if the font is small enough that my old eyes have trouble reading it, then I won't, and that would be bad for you.