

322 Compilers Assignment: Lc Speed

Due Thursday June 7th, noon

Your job: Clean up, polish up, speed up your compiler. And write a program to run in everyone's compilers. Then, we'll see whose compiler produces the fastest code.

The compiler should accept a filename on the command-line ending with `.L5` and it should write an `a.out` file containing an x86 binary that runs the L5 program. The compiler should be a shell script (or executable) named `Lc`.

Your submission should also contain a single L5 program named `code.L5`, where the name of the file is your code as used on the website. This is your contribution to the speed test.

Running the program in your compiler should take no more than 5 minutes on the tlab machines and should produce a binary that takes roughly between 1 and 2 minutes (also on the tlab machines).

Handin instructions: Your handin must run on the t-lab machines (under linux).

Hand in your assignment by uploading it to the server at <http://penghu.eecs.northwestern.edu:8123/>. The uploaded file should be a gzipped tar file named `name.Lc.tar.gz`. The `name` should be your last name in all lowercase letters unless you are pair programming, in which case it should be both last names in alphabetical order, separated by `+`. If your name has any non-alphabetic characters, remove them first. For example, if Conan O'Brien and Shawn Knowles-Carter were pair programming and handing in this assignment, they'd send in a tarfile named `obrien+kowlescarter.Lc.tar.gz`.