

322 Compilers Assignment: Lc Speed

Due Wednesday June 4th, noon

Your jobs:

1) Write a program to run in everyone's compilers. 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).

2) Clean up, polish up, speed up your compiler.

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.

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 family name in all lowercase letters (except for the names Liu, Zhou, or Wang, see below) unless you are pair programming, in which case it should be both family 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`. If your family name is Liu, Zhou, or Wang, then include your first name as well, but also without any spaces. For example, if your name is Liu Bolin, then use `bolinliu` as your name. And if Bolin and and Shawn team up, they'd submit `bolinliu+kowlescarter.Lc.tar.gz`.