

322 Compilers Assignment: 2

Register allocation, finishing up

Your job: Finish the L2 to L1 compiler. That is, wire everything together. If your compiler cannot register allocate some function, it must produce a string containing the characters `could not register allocate`. That is, the result on stdout could look something like:

```
"could not register allocate main"
```

(including the quotes).

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.2.tar.gz`. The *name* should be your family name in all lowercase letters (except for the names He, Liu, 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.2.tar.gz`. If your family name is He, Liu, 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.2.tar.gz`.

The attachment must contain (at the top-level) a shell script or binary executable that is your compiler (and whatever supplementary files it needs). The compiler should be called `L2c`.

The compiler should accept a filename on the command-line ending with `.L2` and it should write a the L1 program to stdout (and nothing else to stdout).