

## 322 Compilers Assignment: 2

### Register allocation, finishing up

Due Monday May 6th, noon

**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 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+knowlescarter.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).

The top-level directory can also contain executables that correspond to earlier assignments; they will be re-run in the test fest for this week.