## 322 Compilers Assignment: 1 The L1→x86 compiler

## Due Tuesday April 3rd, noon

**Your job:** Write a compiler that translates L1 to x86 assembly code. See the lecture notes for an explanation of the tricky cases.

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

Hand in your assignment by sending email with the subject 1 to robby@eecs.northwestern.edu. The email should include an attachment named name.1.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 +. For example, if Robert Jordan and Brandon Sanderson were pair programming and handing in this assignment, they'd send in a tarfile named jordan+sanderson.1.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 L1c.

The compiler should accept a filename on the command-line and it should write the file a.out that, when run from a shell prompt, produces the same output that the interpreter would have produced for that program (if the interpreter crashes, your compiler's output program can do whatever it wants).

**Note:** if you do not follow the handin instructions above I will just ignore your handin; it will count as if you handed nothing in (see the course webpage for grading details).