322 Compilers Assignment: 1 The L1 \rightarrow x86 compiler

Due Monday April 4th, 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 <code>name.1.tar.gz</code>. The <code>name</code> 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 <code>jordan+sanderson.1.tar.gz</code>.

The attachment must contains (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 L1.

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 we will just ignore your handin; it will count as if you handed nothing in (see the course webpage for grading details)