

Assignment 6

Instruction Selection

Due: 11:59pm, Wednesday November 7

E-mailed questions about this assignment should be sent to `cs132help@cs.hmc.edu`.

1. Make a `svn` copy of your Assignment 5 solution, and copy in the contents of `src/a6`.
2. Read the signature of the `Assem` structure in `assem.sig`.
3. The `Toplevel` structure has gotten more complicated. There's now a `compile` function that takes a filename. It parses, type checks, translates, canonicalizes all the statements, passes them to `X86gen` to create assembly code, and writes all these results to a `.s` file. If you run `compile "t.bcs"` the output will be written to `t.bcs.s` (not `t.s`).
4. Unfortunately, the code in `x86gen.sml` doesn't do a very good job of translating. Fix the output of the code generator.
5. You may need to use `Temp.specifiedTemp` to refer to specific machine registers; see the mapping used near the beginning of `x86.sml`.