

Lap Report

The program works by matching text to regular expression and then replacing the matched text with a modified string. For example, in the file `qstat_output.txt`, we were tasked with removing all text but the first string of numbers and prefixing that string with “`qdel`”. This was accomplished by first searching for the initial string of numbers via the regular expression `^[0-9]+` and modifying that string, using the following `printf` command.

```
Printf( “qdel %s”, yytext );
```

However, this leaves the rest of the line intact. The regex `\.fusion.*` was used to capture the string following the preserved numbers, and was replaced with an empty string.

For `java.cpp`, replacing every line comment with a block comment was accomplished by searching for and capturing every line that started “`//`” with `\\V.*$`, and printed using:

```
printf( “\V* %s *\V”. yytext + 2 );
```

Note that the printed character array was shifted by two indexes so that “`//`” is not printed.

Troubles:

I didn't know much about regular expressions coming into this lab. It was a good learning experience. Also, weird things happened with compiling such that changes made to `reg_expr.l` were not compiled until I re-downloaded the source and started fresh.