



Phase2 Tutorial

Tools: Commandline vs Eclipse



Commandline:

1. Use `stimp.cis.udel.edu` or `yankees.acad.ece.udel.edu`.

Note: all necessary tools are already installed.

Eclipse:

1. Java: Java Development Kit (JDK)

Note, be sure to install Java Runtime Env. (JRE)

2. Install Eclipse with subclipse* plugin(svn)

*subclipse install: <http://subclipse.tigris.org/servlets/ProjectProcess?pageID=p4wYuA>

Window->Preferences->Team->SVN->SVN interface->choose SVNKit

Eclipse Short Intro



- Eclipse is a Java IDE
- Integrated compilation and build
- Integrated testing and debugging
- Team development support (SVN, CVS, GIT)
- Plugins are everywhere.

Workflow



0. READ Documentation

Note: README_Phase2.txt, JLex manual, cool manual, svn guide, etc.

1. Checkout using svn

A. Commandline: svn checkout

B. Eclipse: File->New->Other->SVN->Checkout
Projects from SVN

Note: when prompted for username or author name, enter your eecis name

2. **Edit src/lexer/CoolLexer.lex**

- Write your specifications (REs) for JLex here.

3. Generate lexer

Workflow (cont.)



4. Check lexer correctness

Option1: lex example file, phase1 file, etc. compare output with that generated by bin/lexer.

Option2: make cool compiler in java tree use your lexer, and see if a cool program compiles.(details in README_Phase2.txt)

If something goes wrong, go through steps 2-4 again.

Commandline vs Eclipse Example



1. Commandline

```
java lexer.JLex lexer/CoolLexer.lex
```

2. Eclipse: Create external tool

- Run->External Tools->External Tools Configurations
- Location: enter pathname to your java.exe
- Working Directory: \${workspace_loc:/cisc471-672-f11/<name >/PA2/src}
- Argument: lexer.JLex lexer/CoolLexer.lex
- Then, use external tools from toolbar.

Notes



- Binaries under bin will only run on sparc machine
- CoolLexer.lex contains useful comments