

# Other Project Resources

A list of other resources that you might find helpful:

#### C++ and UNIX:

- Thomas Anderson's <u>Quick Introduction to C++</u> may be useful if you know C but are not familiar with all of the C++ subset we use in the programming projects.
- A more thorough guide to using the version of Gnu C++ installed on our Linux machines is <u>here</u>.
- Quick guide to <u>UNIX development tools</u> (one of the many useful documents available in Nick Parlante's ever-growing <u>CS library</u>)

## • Help with the gdb debugger:

- GNU's online gdb users guide
- Printable quick reference: gdbref.ps
- A GDB article that Julie Zelenski wrote a few years ago for a programming journal: <u>GDB breakpoint tricks</u>

# • References on lex & yacc:

Lex is the original lexical scanner developed by Lesk and Schmidt; Paxson's improved version is flex. Similarly, yacc is Johnson and Sethi's original parser; bison is the GNU-equivalent written by Corbett and Stallman. Both are designed to be upward-compatible with the original while adding extensions and improvements.

- Original documentation by the authors of the tools themselves.
  These papers are quite readable and serve as an excellent introduction for familiarizing yourself with the tools.
  - Lesk and Schmidt on lex

- Johnson on yacc
- Man pages are available from command line, e.g., man lex. We've also put up browsable versions of the Solaris man pages for <u>lex</u>, <u>flex</u>, <u>yacc</u>, and <u>bison</u>.
- GNU's online documentation (full manuals, long, but very complete)
  - flex
  - bison
- The lex & yacc page from Combo.org.
- An article from the Linux Journal singing the praises of lex & yacc.

## References on JLex and Java\_cup:

- Manual for <u>JLex</u>, <u>Java CUP</u>.
- JLex.
- Java CUP.
- Cool Trees (Start with class TreeNode).

### • References on MIPS & SPIM:

- A PDF version of the <u>SPIM Manual</u> (appendix from Hennessy & Patterson's architecture book)
- The <u>SPIM home page</u> (downloadable versions, more docs).

#### Just for fun:

- A list of <u>funny error messages</u> from the old MPW C compiler.
- A translator for <u>Latin to Perl</u> (and you thought there was no practical use for what you learned in 143!)