Compiler Design

Syllabus

Time and Location

Lecture: MWF 2:10-3:00 Sproul Hall 2355

LAB Tuesday   11:10- 2:00 Engineering II 226
LAB Thursday   2:10 -5:00 Engineering II 226

Instructor

- _Name:_ Dr. Teodor C. Przymusinski

- _Office:_ Engineering II 419

- _Office hours:_ MWF 3-4

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Teaching Assistants

- _Vladimir Vacic_

  Office hours: W 12:30-2:00, R 11:10-12:30, Engineering II 362

  E-mail: vladimir@cs.ucr.edu

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Required Textbook

- Andrew W. Appel, Modern Compiler Implementation in Java, Cambridge University Press

Expected coverage

Selected topics from the first eight chapters.

Important Note: Students are required to read the sections pertaining to the material covered in the class and familiarize themselves with the relevant exercises. Students are required to attend both the lectures and the lab sections.

Additional Resources

➢ Programming assignments as well as any other required files and resources will be made available through TA-maintained Web page

➢ Textbook's home page: http://www.cs.princeton.edu/~appel/modern/java

➢ Sun Microsystems NetBeans programming environment, **online manuals and help** installed all machines in Engineering II Building..

➢ A class mailing list: cs152@lists.cs.ucr.edu will be established to disseminate information pertaining to this class.

➢ Students should sign up for it at: https://www.cs.ucr.edu/mailman/listinfo/cs152

➢ Essential software includes:
  - ➢ JDK 1.5
  - ➢ CUP
  - ➢ JFlex

The /bin directory for JDK needs to be added to the PATH, and the share needs to be added to the CLASSPATH. Since the systems people intend on moving to mandatory profiles, this will be included in the profile for all CS majors.

The tools are used with the command line. The commands

java java_cup/Main < [input]
java JLex/Main [input]

are used to access the corresponding tools.

Grading Policy

Grading will be based primarily on the programming assignments. There will be no final exam. *Approximate* weights assigned to them will be as follows:

Quizzes and Lab assignments	10%
Programming assignments (4-5)	90%

Quizzes: Several pop-up quizzes will be given in the lab with _no make-ups._

Programming assignments: about 4-5 relatively complex programming assignments will be given in Java. The assignments will be progressively more complex with the final project resulting in a partial implementation of a compiler for Tiger. They have to run under MS Visual Java++ 6.0. Students should gather and study in advance manuals and any other materials needed to run simple programs in Java, and, if possible, should practice using the language. Programming assignments are due by the midnight of the date specified and are to be submitted electronically by means of the _"turnin"_ WWW program available at **https://www.cs.ucr.edu/**. There will be a 20% penalty for assignments that are late by one day, 50% penalty for a two-day delay and no credit will be given for homework that is more than two days late.

- Submitted programs or projects must be developed completely _independently_ by each one of the students. NO COOPERATIION on assigned projects, SHARING OR DISCUSSION OF project code is allowed!!! Students violating this policy on cheating will be given a failing grade for the course and their case will be referred to the office of _Vice-Chancellor for Student Affairs_.

- _Note:_ The _"turnin"_ program always keeps _the most recent version_ of the program submitted.

Welcome to the Class!