Course Outline

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Subject Introduction

COMP3131/9102: Programming Languages and Compilers

Term 1, 2019

FAQs

1. Course Aims

This subject focusses on basic compiler techniques needed to implement programming languages in a virtual machine (with emphasis on the compiler front end). By writing a compiler in Java to translate a variant of C into Java bytecode, you are also expected to gain a good understanding of important fundamental principles in object-oriented programming languages and develop further your programming and software engineering skills.

This project, which consists of a sequence of five programming assignments, can be challenging but fun. It is probably the first time that you write a compiler and run a program that you compiled! In exchange for your hard work, you will learn a lot about programming languages, compilers, software development and how to use programming language expertise to make a large project work better.

Graduate attributes (UNSW graduate attributes are the qualities, skills and understandings a university agrees its students should develop during their studies. Some of these graduate attributes will be developed and assessed in this course in terms of the knowledge and skill outcomes listed below.

Knowledge Outcomes:

Resource created about a year ago (Saturday 26 January 2019, 11:13:09 PM), last modified 3 months ago (Tuesday 07 January 2020, 03:32:07 PM).

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Jingling Xue (/users/z9900057) about a year ago (Tue Feb 19 2019 09:30:11 GMT+1100 (Australian Eastern Daylight Time))

For this course, it doesn't really matter much as standard Java language features will be used. However, all assignments will be marked using the school's computers. You need to make sure your own Java version is not too much older than that.

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Zhanlin Shang (/users/z5220676) about a year ago (Mon Feb 18 2019 16:06:15 GMT+1100 (Australian Eastern Daylight Time))

Hello, I'm just wondering which version of Java are we using?

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