
Week 1

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Week 1 作业

- 1.1.3 : What advantages are there to a language-processing system in which the compiler produces assembly language rather than machine language?
 - The compiler may produce an assembly-language program as its output, because assembly language is easier to produce as output and is easier to debug.

Week 1 作业

- 1.1.4 : A compiler that translates a high-level language into another high-level language is called a *source-to-source* translator. What advantages are there to using C as a target language for a compiler?
 - For the C language there are many compilers available that compile to almost every hardware.

Week 1 作业

■ 列举一些知名的编译器构造工具，并说明他们分别的作用

- Lex 和 YACC (Flex 和 Bison for Linux)
- LLVM: 一套用于开发编译器、解释器等程序语言相关工具的库，主要为后端功能，如代码生成、代码优化、JIT等
- ANTLR (ANother Tool for Language Recognition) 是一种语言工具，它提供了一个框架，可以通过包含 Java, C++, 或 C# 动作 (action) 的语法描述来构造语言识别器，编译器和解释器。
- <https://www.thefreecountry.com/programming/compilerconstruction.shtml>

Make, Ant是构建工具，不是编译器构造工具！！！！



Thank you!