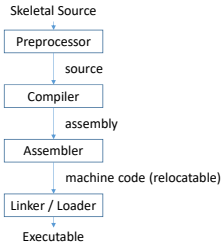
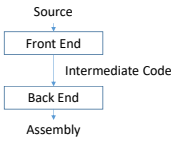
Compiler Architecture

Chapter 1

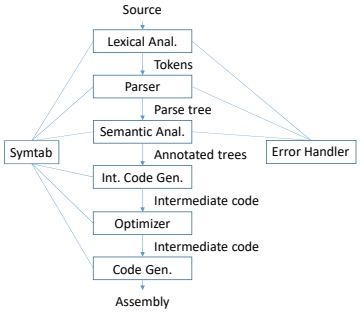
Compiler Tools



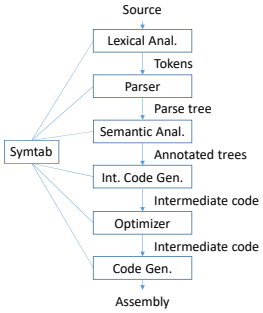
Compiler



Compiler Phases



Compiler Description Languages



Regular Language

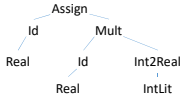
Context-free Language

Context-sensitive Language

Example Data Structures

- Source: x = y * 5;
- Tokens: (ID, x), (ASSN), (ID, y), (MUL), (INTLIT, 5), (SEM)
- Parse Tree

- Annotated Trees



Example Data Structures

- Intermediate Code

```
TMP1 = Int2Real(5)
TMP2 = ID2 * TMP1
ID1 = TMP1
```

- Assembly …