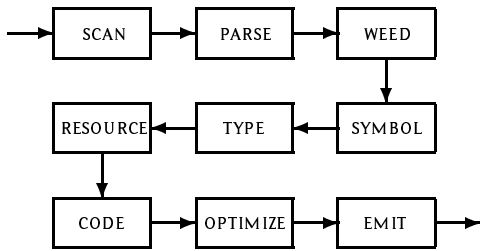


## The phases of a modern compiler:



1

## Intermediate form:

Linked list of abstract assembler code

An entry is either

- label
- instruction

The instruction set is **2-address**.

2

## Instructions:

The operations are

- move
- add, sub, inc, dec, mul, div
- jump
- cmp
- je, jne, jg, jge, jl, jle
- push, pop
- call, ret

3

## Instruction arguments:

- pointer to label (jump instructions)
- constants
- temporary variables  
(direct, indirect, offset)
- special registers: esp, ebp (maybe eax)

4