

Code Generation: Intermediate Languages

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First of all, three types of intermediate languages will be presented, namely two-address code, three-address code, and reverse polish notation. Their advantages and disadvantages with respect to optimizations and assembly language generation will be discussed.

After that, an intermediate language based on C macros, called C-code, will be introduced. The infrastructure required for this intermediate language will be presented and other interesting parts, such as subroutines implementation, will be discussed in detail.