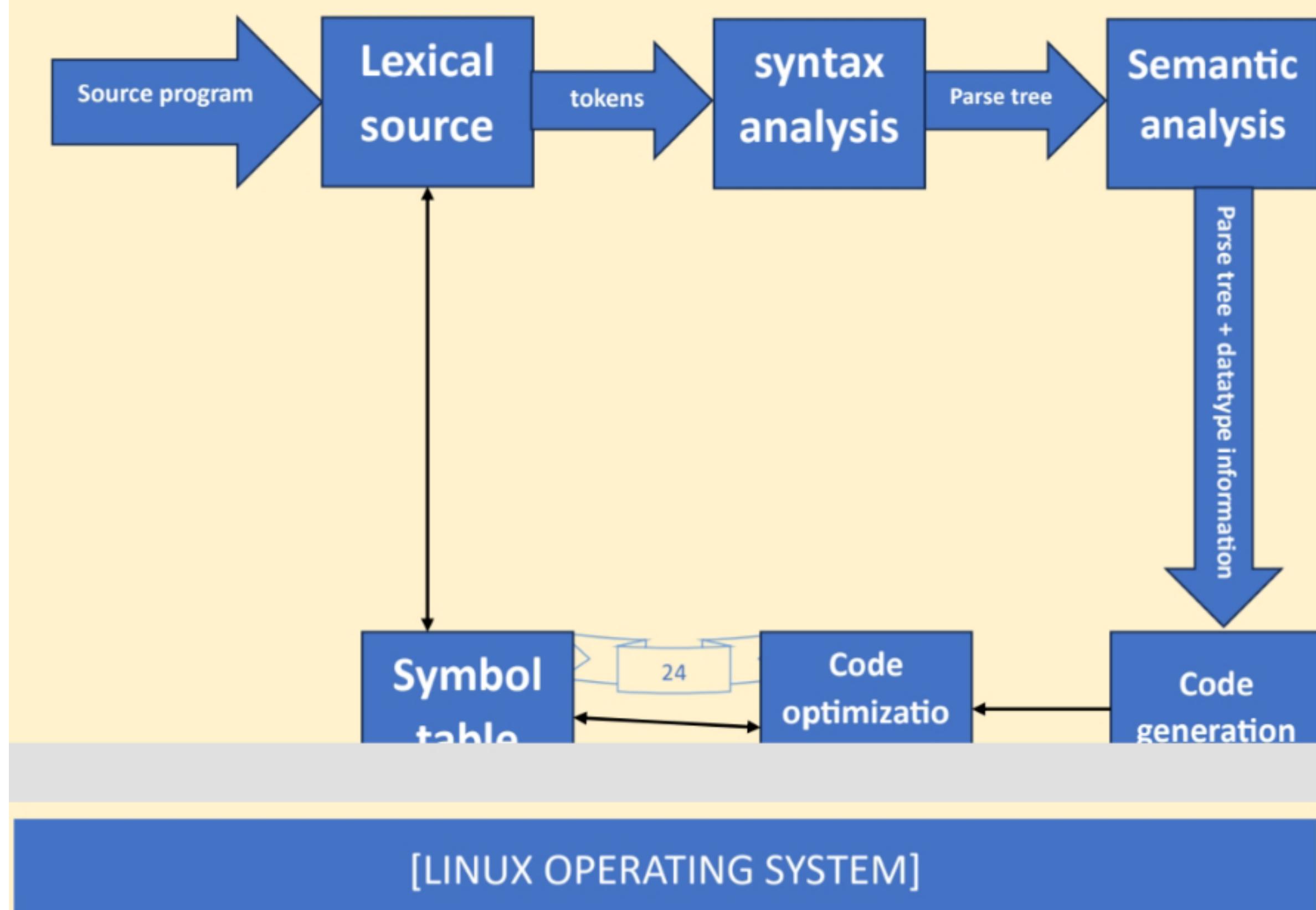


error every time. A real number is used to index an array.

e.g. `a[5.6];` Error Here 5.6 is real value not an integer. 100%

Code generation and optimizations

The final phase of the compiler is the code generator. The code generator takes an input as intermediate representation (in the form of parse tree) of the source program and produce as output an equivalent target program.



Some issues in the design of code generation. A thorough knowledge of the target machine's architecture as well as instruction set is required to write a good code generator. The code generator is concerned with the choice of machine instruction, allocation of machine register, addressing, interfacing with operating system.

To produce faster and more compact code, the code generator should include some form of code optimization.

The techniques such as the use of a special for plasma scene, instruction or addressing modes, register optimization etc. This code optimization may incorporate both machine depended and machine independent technologies.

Software tools

The history of compiler development, it has recognized that some aspects of compiler design could be automated. The development of software tools to aid the production of compiler.

Two best non software tools for compiler constructions are lex (a lexical analyzers generator) and yacc (a parser generator). Both of which are available under the Unix