Compilers Milestone 1

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Compiler Specifications

- *Source Language* : ADA

- *Implementation Language* : Python

- *Target Language* : MIPS

Python PLY is used to build lexer and parser
Graphviz dot is used to construct the graphical form of the Abstract Syntax Tree

Abstract Syntax Tree

Node class parameters:

- *visited* : bool which keeps track of visited nodes while doing DFS

- *typ* : the LHS of the production rule

- *desig* : A string type in which we store the terminals of the RHS of corrosponding production rule

- *children* : non terminals on the RHS

Command for Running :

python3 parser.py ../tests/input/fibonacci.adb --out=fibonacci.dot