

Compiler HW3

Change in lex.l and parser.y:

Lex.l

1. Add "Opt_Symbol" to control whether to print symbol table or not
2. Use "yyval.str = strdup(yytext)" to return the value of input file
3. Add #include "symboltable.h"

Parser.y

1. Add action behind the grammar
2. Declare the state type. Ex: %type <str> dim
3. Add token type. Ex: %token <str> COMMA

Parser abilities:

1. Push a symbol table when entering a scope and pop it when exiting the scope
2. Insert entries for variable, parameters, constant, procedure, function definition, function declaration
3. Can recognize some duplicated variables names, and insert the first one into symbol table

Platform:

Linux work station of CS

How to run:

1. Get into the directory and put the input file in it
2. % make
3. % ./parser [input file]