SCC by KREG - Usage

Krishna Marentes
Rebecca Castillo
Elijah Orozco
Geoff Knox

April 6 2020

1 Usage

At present, our compiler takes input from a .c file, and can output user-specified results to the terminal. Those results include:

- -t Print tokens
- -p Print parse tree
- -a Print abstract syntax tree
- -s Print symbol table
- -i Print intermediate representation
- -w [filename] Write the IR to ¡filename¿
- -r [filename] Read in a given IR instead of source code

Note that options -w and -r should not be used together

1.1 Run instructions:

Ensure that the repository is cloned and unzipped then navigate into the folder. Library **Javafx** must be installed in order to support the Pair data structure.

- Windows

  Compile .g4: java -jar antlr-4.8-complete.jar kregGrammar.g4 -o out

  Compile java: javac -cp ".;antlr-4.8-complete.jar;out" *.java

  Run Example: java -cp ".;antlr-4.8-complete.jar;out" SCC tests\ex1.c

  Print tokens: java -cp ".;antlr-4.8-complete.jar;out" SCC -t tests\ex1.c

- Mac / Linux

  Compile .g4: java -jar antlr-4.8-complete.jar kregGrammar.g4 -o out

  Compile java: javac -cp ".:antlr-4.8-complete.jar:out" *.java

  Run Example: java -cp ".:antlr-4.8-complete.jar:out" SCC tests/ex1.c

  Print tokens: java -cp ".:antlr-4.8-complete.jar:out" SCC -t tests/ex1.c