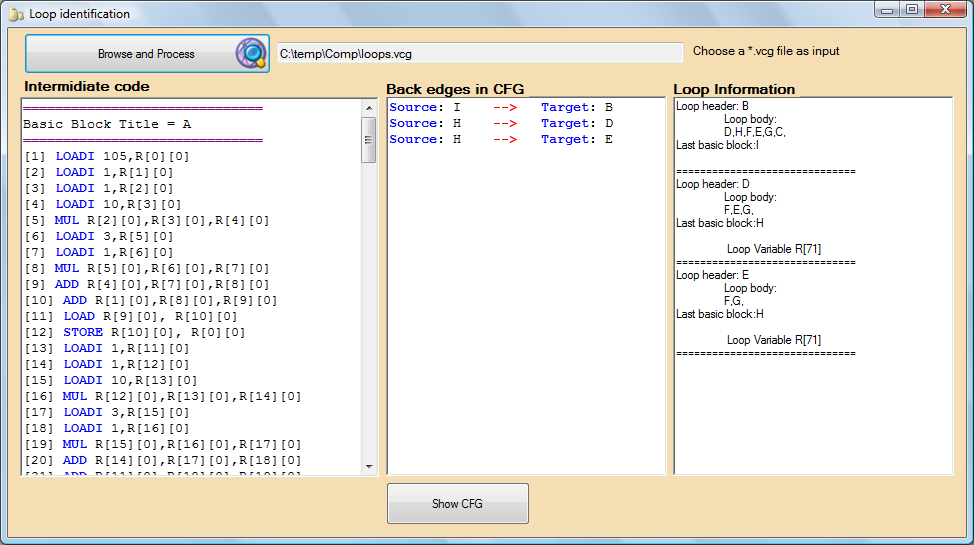
**Loop identification**

This optimizations identifies loop in a given CFG (control flow graph)

Execution: for gui just execute the program

For command line execution run in the following way:

CompilationLoopIdentifications [inputfile.vcg]



Input: vcg file (this file type is output of create basic blocks stage in the pascal++ workspace)

Output: Displays to screen the loops in the cfg and produce an xml called loops.xml

XML format

<?xml version="1.0" encoding="utf-8" ?>

<LOOP\_IDENTIFICATION\_FOR\_COMPILER\_LAB\_ORT\_BRAUDE>

<LOOP\_LIST>

<LOOP>

<FIRST\_BASIC\_BLOCK>**A**</FIRST\_BASIC\_BLOCK>

<LOOP\_BODY />

<LAST\_BASIC\_BLOCK>**B**</LAST\_BASIC\_BLOCK>

<LOOP\_ITERATION\_VARIABLE />

</LOOP>

</LOOP\_LIST>

</LOOP\_IDENTIFICATION\_FOR\_COMPILER\_LAB\_ORT\_BRAUDE>