Bug 000001 – System crash

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Status: solved Reported: 2013-03-02 12:18 PM by LEI Xihan

Product: Code-Similarity Assigned to: YUAN Siyan

Component:

Version: unspecified

Platform: PC Microsoft Windows 7

Importance: critical

LEI Xihan 2013-03-02 12:18 EDT

When I followed the instructions in the readme file: input two paths of the file into the program. The program simply crashed.

The error message as follow:

=======================================================================================

>java -jar cs.jar

Please enter original name: H:\original.c

Please enter target name: H:\target.c

LineByLine Comparar : 100.00% Exception in thread "main" Exception in thread "main" java.util.regex.PatternSyntaxException: Unmatched closing ')' near index 16

void (\w\*?)\(\w\*?)\(\w\*?)\(char\\* (\w\*?)\, int (\w\*?)\, int (\w\*?)\, (\w\*?)\(\w\*?) (\w\*?)\) \{(?:.\*?)? printf\(\"\[\%(\w\*?)\] \%\10 \(\%(\w\*?)\) (\w\*?)\. (\w\*?) (\w\*?) (\w\*?) \%\11\.\"\)\;(?:.\*?)?\}

^

at java.util.regex.Pattern.error(Pattern.java:1924)

at java.util.regex.Pattern.compile(Pattern.java:1669)

at java.util.regex.Pattern.<init>(Pattern.java:1337)

at java.util.regex.Pattern.compile(Pattern.java:1022)

at edu.hkcity.cs.Utility.replace(Utility.java:248)

at edu.hkcity.cs.FuncByFuncComparar.compare(FuncByFuncComparar.java:64)

at edu.hkcity.cs.Input.getInput(Input.java:92)

at edu.hkcity.cs.Main.main(Main.java:13) =======================================================================================

The input files are in the appendix.

[Solved]YUAN Siyan 2013-03-10 19:25 EDT

The bug occurs when calling the Utilty::replace() function. From the error message, the error comes from the regular expression. It replaces the “\_” character to “\\_” which cause the exception. I have revised the code handling generating regular expression to ignore the character “\_” when escaping the punt and include the character “\_” when extracting the variable. Problem solved.

EOF

Appendix:

original.c  
<<< START

void procs\_create\_msg(char\* who, int pid, int ppid, time\_t timer) {

printf("[%s] %s (%d) created. Its parent is %d.");

}

int main(){

procs\_create\_msg(“child”, getpid(), getppid(), time(NULL));

}

<<<EOF

target.c  
<<< START

void procs\_create\_msg(char\* who, int pid, int ppid, time\_t timer) {

printf("[%s] %s (%d) created. Its parent is %d.");

}

int main(){

procs\_create\_msg(“child”, getpid(), getppid(), time(NULL));

}

<<<EOF