

## Tracing System Calls with 'strace'

(2.27 in the textbook)

Write a program in Java that copies the contents from one file to another. This program works by first prompting the user for source and destination files. Be sure to include all necessary error checking (including whether source file exists and whether the user executing the program has necessary permissions to create the destination file).

Once you have designed and tested the program, run the program using a utility that traces systems calls ('strace' on a linux system). Java does not support making system calls directly. However, it will be possible to observe which java methods corresponds to which system calls.

What to Submit?

A Zip folder containing

1. Your java program
2. A document (PDF) containing your observations from the 'strace' utility. You should list all the system calls that were invoked during the execution of your program. You should also specify which java method corresponds to which system call.

Submissions need to be done via ELC.