

# Lab 1: System Call Implementation

Add a new system call `info(int param)` that takes one integer parameter with value 1, 2 or 3. Depending on the value, it returns:

- (1) A count of the processes in the system;
- (2) A count of the total number of system calls that the current process has made so far;
- (3) The number of memory pages the current process is using.

## What to submit:

You need to submit the following:

- (1) A zip file of the entire XV6 source code you modified
- (2) A detailed explanation what changes you have made and necessary screenshots to show your work and results
- (3) A detailed description of XV6 source code (including your modifications) about how the `info` system call is processed, from the user-level program into the kernel code, and then back into the user-level program.

## Grades breakdown:

Correct implementation and demo of `info()` system call: 45%

- count of the processes in the system: 25%
- report the number of system calls this program has invoked: 15%
- report the number of memory pages the current process is using: 15%

Clear and detailed explanation of the changes made: 20%

Clear and detailed explanation of system call workflow: 15%