COMP 2401 -- Tutorial #9

Signals

Learning Objectives

After this tutorial, you will be able to:

- use signals to communicate between processes, specifically:
 - o send a signal to a process
 - o install signal handlers in a process to catch incoming signals

Tutorial

1. Download the file mog.zip from the tutorial page in *cuLearn*. Extract and read through the tutorial files.

There is also a zip (unzip) tool in Linux. Read the man page for the zip tool to see how to unzip the tutorial files.

- 2. Create a Makefile to compile send.c and handle.c with targets send and handle. Make send and handle.
- 3. Run handle in the background, you should see something like:

```
$ ./handle &
[1] 2329
```

where 2329 is an example of a process ID. In this case, the ID of the running handle process is 2329, but it will be different for your process.

- 4. Run send, enter the PID of handle and enter 1, 2, then 0.
- 5. Run ps to list the current running processes. Why is handle still running? Kill it.

```
$ kill 2329
```

Use ps to check that the process has terminated.

6. Modify send.c so that when the user chooses 0, a signal (SIGINT) is sent to the process pid.

Make send and re-run handle (again in the background), Run send, and enter 0. Run ps to verify that handle is not still running.