Homework 7: Signals

The goal of this homework is to understand the Linux signals. Clone the homework repository to your system using:
‘‘`git clone https://github.com/Systems-IIITD/hw7`’’.

To compile: `cd hw7 && make`
To execute: `./schedule`

Read the man pages of `signal`, `alarm`, `getcontext`, `makecontext`, `setcontext`, `swapcontext`, and `kill`. The `schedule.c` creates two user-level threads and try to schedule a new thread after every one second. The program exits when both the threads finish their execution. At the high level, `scheduler.c` is trying to simulate a single threaded execution to two user-level threads.

- Write a brief source code summary of `schedule.c`.
- Change the given implementation to trigger a `schedule` on `SIGINT` and when thread1 and thread2 finish their execution.

1 Submission

Upload a pdf file with your answers on the Backpack. This is a project group homework. Only one project member needs to upload. You must follow the naming convention as group_id.pdf.