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CS153

Lab 2 Report

1. In this lab we changed several files such as proc.h, proc.c, usys.s, syscall.h, syscall.c, sysproc.c, defs.h, Makefile, and user.h. We had to change these files to add our new functions and system calls in regards to priority scheduling.
2. We tested our changes by running lab2. In this file a parent created three children with ranked priorities and we made sure they were ranked correctly. Here is our output

```
(process:20992): GLib-WARNING **: gmem.c:483: custom memory allocation vtable not supported
xv6...
cpu0: starting 0
sb: size 1000 nblocks 941 ninodes 200 nlog 30 logstart 2 inodestart 32 bmap start 58
init: starting sh
$ lab2

  Step 2: testing the priority scheduler and setpriority(int priority)) systema call:

  Step 2: Assuming that the priorities range between range between 0 to 31

  Step 2: 0 is the highest priority. All processes have a default priority of 10

  Step 2: The parent processes will switch to priority 0

 child# 6 with priority 10 has finished!

 This is the parent: child with PID# 6 has finished with status 0

 child# 5 with priority 20 has finished!

 This is the parent: child with PID# 5 has finished with status 0

 child# 4 with priority 30 has finished!

 This is the parent: child with PID# 4 has finished with status 0

 if processes with highest priority finished first then its correct
QEMU: Terminated
```