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Team #16

Lab 2 - Writeup

Files Changed

- proc.h
  - Added int priority to proc struct to store the priority of each process
- syscall.h
  - Defined SYS calls for setpriority and getpriority and assigned them each numbers
- syscall.c
  - Added extern int sys_setpriority(void) and extern int sys_getpriority(void)
  - Added [SYS_setpriority] sys_setpriority and [SYS_getpriority] sys_getpriority which mapped the extern declarations to the sys calls
- proc.c
  - Added new function void setpriority(int priority) to set the priority of the current running process
  - Added new function int getpriority(void) to return the priority of the current running process
  - Changed the scheduler to take into account the priority of each process and also to age the priority
- user.h
  - Added system calls void setpriority(int) and int getpriority(void)
- usys.S
  - Added SYSCALL(setpriority) and SYSCALL(getpriority)
- defs.h
  - Added void setpriority(int) and int getpriority(void)
- sysproc.c
  - Added void sys_setpriority(int) and int sys_getpriority(void) declarations
- Makefile
  - Added "lab2" to UPROGS commands so it could be executed from inside the shell of xv6
- lab2.c
  - Added given lab 2 test file to test code and added tests for aging of priority