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Team #16

Lab 1 - Writeup

Files Changed

- proc.h
  - Added int status to proc struct to store the exit status into a variable
- syscall.h
  - Defined SYS calls for exits, waits, and waitpid and assigned them each numbers
- syscall.c
  - Added extern int sys_exits(void), extern int sys_waits(void), and extern int sys_waitpid(void)
  - Added [SYS_exits] sys_exits, [SYS_waits] sys_waits, [SYS_waitpid] sys_waitpid which mapped the extern declarations to the sys calls
- proc.c
  - Added new function void exits(int status) to store an exit status in curproc
  - Added new function int waits(int *status) to return status of child process that has been terminated (makes sure to store status before returning the pid)
  - Added new function int waitpid(int pid, int *status, int options) which waits for the process with the specified pid (passed in as a parameter) to terminate before continuing
- user.h
  - Added system calls int exits(int) __attribute__((noreturn)), int waits(int*), and int waitpid(int, int*, int)
- usys.S
  - Added SYSCALL(exits), SYSCALL(waits), and SYSCALL(waitpid)
- defs.h
  - Added void exits(int), int waits(int*), and int waitpid(int, int*, int)
- sysproc.c
  - Added int sys_exits(void), int sys_waits(void), and int sys_waitpid(void) declarations
- Makefile
  - Added “lab1” to UPROGS commands so it could be executed from inside the shell of xv6
- lab1.c
  - Added given lab 1 test file to test code