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Team #45

Lab 1 - Writeup

Files changed
- user.h
  - updated function declaration for user-space system calls:
    - int exit(void) → int exit(int)
    - int wait(void) → int wait(void)
  - new function declaration for function waitpid: int waitpid(int, int*, int)
- defs.h
  - Updated the function declarations for user-space system calls:
    - void exit(void) → void exit(int)
    - int wait(void) → int wait(int*)
  - Added the function declaration int waitpid(int, int*, int)
- sysproc.c
  - sys_exit(void), sys_wait(void), sys_waitpid(void) uses the argint and argptr functions to pass in the arguments of the user-space programs into the system call.
- proc.c
  - change signature of void exit(void) to void(int status)
  - Changed signature of int wait(void) to int wait(int *status)
    - Write the exit status of the terminating process to memory provided by the address in int *status.
  - New function: int waitpid(int pid, int* status, int options)
- proc.h
  - Added the "status" member in the struct proc.
- Makefile
  - Added "_lab1test\" under UPROGS list
  - added "lab1_test.c" under extra programs
- syscall.c
  - Added extern_int sys_waitpid(void) and [SYS_waitpid] sys_waitpid in syscall array.
- syscall.h
  - Defined SYS_waitpid (22) at the bottom of the file to declare the system call
- usys.S
  - Added SYSCALL(waitpid) at the bottom of the file.
- alias.txt
  - Added "exit=exit, wait=wait, waitpid=waitpid" as requested by submission guidelines.
- cat.c, echo.c, forktest.c, grep.c, init.c, kill.c, ln.c, ls.c, mkdir.c, rm.c, sh.c, stressfs.c, trap.c, usertests.c, wc.c, zombie.c
  - replace exit() calls with exit(0) to match the new signature
  - replace wait() calls with wait(0) to match new signature