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Team # 15

Lab 1 - Summary

Files Changed

- users.h
  - Added function declarations for exit_w_int, wait_w_int, and waitpid functions
- defs.h
  - Added function declarations for exit_w_int, wait_w_int, and waitpid functions
- sysproc.c
  - Added SYSCALL handlers sys_exit_w_int,sys_wait_w_int and sys_waitpid
- proc.c
  - Added functionality of the new functions exit_w_int,wait_w_int,waitpid
  - Added line putting parameter status into the new status block of the process that’s being exited. (exit_w_int)
  - For wait_w_int in the loop of ptable after finding child of parent process closes it
  - For waitpid in the loop of ptable after finding process with same pid process closes it
  - For exit w int just changed current proc int status in it’s PCB
- proc.h
  - Added int status to PCB
- Usys.S
  - Add new system calls to the list of them in this file
- syscall.h
  - Added SYSCALLs #define for exit_w_int,wait_w_int and waitpid
- syscall.c
  - Added extern int for new syscalls, and to [SYS_syscall] list in syscall.c file
- MakeFile
  - Added lab_1_test to UPROGS and g-dwarf-2 to line 79 due to compute CFA frame error
- lab_1_test
  - Test file for testing the new system call functions
  - Use fork in order to test the new system calls for example for the waitpid I forked and then used waitpid on the parent process and then printed to make sure it parent process always waited for the child process with the correct pid to go first
  - Each test runs 10 times

How to Run Tests

If testing exit_w_int type in
	$lab_1_test 1
If testing wait_w_int type in
	$lab_1_test 2
If testing waitpid type in
	$lab_1_test 3
If testing debug type in
	$lab_1_test 4
(Note: Each tests type runs itself 10 times)