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Team #14

Lab Assignment 1: System Calls Writeup

- **defs.h**
 - Modified exit definition in line 107 to take in int parameter
 - Modified wait definition in line 120 to take in *int parameter
 - Added waitpid definition in line 123 that takes in int and *int parameters
- **proc.c**
 - Modified exit system call signature to void exit(int status)
 - Assigned curproc->status = status in line 264 (status from PCB)
 - Modified wait system call signature to int wait(int *status)
 - Checked if PCB status was nonzero then assigned the status pointer in line 292
 - Added waitpid system call as int waitpid(int pid, int *status, int options)
 - Process is similar to wait but makes sure process pid != given pid to continue (line 331)
 - Implemented WNOHANG option to waitpid in line 352
- **sysproc.c**
 - Modified system call functions for sys_exit to take in status argument
 - Modified system call function for sys_wait to take in *status argument
 - Added system call function for sys_waitpid to take in pid, *status & option
- **proc.h**
 - Added int status variable in process control block in line 52
- **user.h**
 - Modified exit system call to take in int parameter (line 6)
 - Modified wait system call to take in int* parameter (line 7)
 - Added waitpid system call to take in int and int* parameters (line 8)
- **lab1_test.c**
 - New file added for testing exit, wait, and waitpid
- **Makefile**
 - Added -gdwarf-2 to line 79 and commented out some UPROGS tests for smoother testing
 - Added the _lab1_test\ executable to allow testing for our functions to line 183
- **syscall.c, syscall.h, usys.S**
 - Added waitpid system call declarations
- **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**
 - Modified the original exit(); to take in int parameter 0 => exit(0);