

CP	Date found	Bug Description:	Solution:	Date fixed
1	10/21/2015	Line overwrites itself when end-of-line reached instead of cursor going to a new line	Instead of appending '\n' when end-of-line reached, manually update the cursor location by updating its screen coordinates	10/22/2015
1	10/22/2015	Page fault doesn't work for dereference NULL	Very first page in paging.c was set to "present" in a for loop, which meant address 0 was a valid address.	10/23/2015
1	10/22/2015	Exception error is not at the top of the screen, even though clear is called before printing	Update screen coordinates to 0 for cursor before exception calls	10/24/2015
2	10/28/2015	Page fault in read_data when trying to dereference the file_length	Start from inode+1 instead of inode to get to the correct inode since the first one is the boot block	10/29/2015
2	10/31/2015	cursor location isn't updated after scrolling done	revise scrolling in terminal_write (or new update cursor function)	11/1/2015
2	10/31/2015	read_data works with frame 0-1, doesn't work with large file	add 4 (instead of 1) to the address calculation for the curr_data_block_index_addr since the int address takes 4 bytes	11/1/2015
2	11/1/2015	read_data doesn't work with big initial offsets (>4kb)	When calculating curr_data_block_index_addr, value of offset/BYTES_PER_BLOCK, which gives the data block's index in inode, is multiplied by 4 since it is an integer pointer	11/2/2015
3	11/10/2015	Execute page faults at iret instruction in the assembly inline	Wrong stack pointer (esp) was being saved	11/12/2015
3	11/13/2015	In shell, if only part of a program name is typed it is still run as if the whole name was typed	read_dentry_by_name is changed so that it checks for the whole name (was checking if the first characters until null char was the same before)	11/14/2015
3	11/13/2015	Arguments for grep and cat have similar issue (content of arguments depend on the previous execute's arguments)	arguments local buffer is cleared during every time execute is called (right after declaring the variable)	11/15/2015
3	11/11/2015	Halt doesn't work for multiple exits (page fault after some arbitrary number of halt calls)	Video page table was seperated from the first page table.	11/29/2015
4	11/19/2015	Syserr 1 doesn't pass (tries to call syscalls with file descriptor < 0)	Added check for file descriptor < 0 to the filesystem (check for fd <= STDIN instead of fd == STDIN)	11/19/2015
4	11/19/2015	Syserr 4 doesn't pass (try opening file that doesn't exist)	Return value for the case "file not found" was fixed to -1 (was -2 earlier for debugging purposes)	11/20/2015
4	11/19/2015	Syserr 8 doesn't pass (try calling system call 0, which doesn't exist)	Added check for system call 0, returns error	11/20/2015

4	11/20/2015	Is page faults on read_dir on iret in isr_wrapper.S	dir_index value (directory index) was not getting incremented properly, so dir_index was made a global variable	11/20/2015
4	11/28/2015	RTC read not working properly, pingpong and fish don't work.	Added sti() before while loop, since interrupts were being ignored	11/29/2015
5	12/3/2015	if a key is pressed while pingpong is running, next command is not recognised. Possibly keyboard buffer issue	Clear the keyboard buffer when CTRL-C (halt) is pressed	12/3/2015
5	12/4/2015	Sometimes when switching terminals the first command typed is not executed.	There was only 1 keyboard index, so a keyboard index array was added.	12/5/2015
5	12/5/2015	TSS error when trying to switch terminals	Assembly inline using eax as a temporary register, changed to ecx to fix the error	12/6/2015