Contributions
CS 450: WStem

Table of Contents:

Introduction

This document contains all the work allocated and completed by members of the WStem team on the Operating System project in CS 450 WVU. This includes files, methods, and data types as well as work such as documentation and debugging.

R1

Name	Contributions
Kylie Burke	.c and .h changes to: - serial_poll() - shiftLeft() - itoa() - print() - Contributions.pdf - User's Manual.pdf - Programmer's Manual.pdf - Debugging and documentation which led to minimal changes in various files
Olivia Gottlieb	- getset.c/h (full file) - usergetset.c/h (full file) - user.mk - kernel.mk - Programmer's Manual.pdf
Nada Mikky	- comhand() - version command() - help command() - shutdown command() - User's Manual.pdf

	● Programmer's Manual.pdf

R2

Name	Contributions

Kylie Burke	● numeric.c/h (full file)
	● Fixes to R1:
	  ○ Leap year logic
	  ○ get_century()
	● Terminal color changes across all the files
	● User's Manual.pdf
	● Contributions.pdf
	● Programmer's Manual.pdf
	● commandHandler.c/h
	  ○ get_PCB_name()
	  ○ get_PCB_class()
	  ○ get_PCB_priority()
	  ○ Adding PCB command handling to comhand()
	● Debugging and documentation which led to changes in various files

Olivia Gottlieb	● pcb.c (full file):
	  ○ pcb struct
	  ○ allocate()
	  ○ pcb_free()
	  ○ pcb_setup()
	  ○ pcb_find()
	  ○ pcb_insert()
	  ○ pcb_remove()
	● pcb.h full file
	● make file edits (kernel)
	● Programmer's Manual.pdf
	● Contributions.pdf

Nada Mikky	● Commands.c (full file):
	  ○ itoa_pcb()
	  ○ print_pcb()
	  ○ help_command()
	  ○ create_pcb()
	  ○ delete_pcb()
	  ○ block_pcb()
	  ○ unblock_pcb()
	  ○ suspend_pcb()

<table>
<tr><td></td><td>

       ○ resume_pcb()
       ○ set_pcb_priority()
       ○ show_pcb()
       ○ show_ready()
       ○ show_blocked()
       ○ show_all()
● *Some of* User's Manual.pdf
● *Some of* Contributions.pdf
● *Some of* *Programmers' Manual.pdf*

</td></tr>
</table>

R3

Name	Contributions
Kylie Burke	- sys_call_isr - context struct - Contributions.pdf - User's Manual.pdf - Programmers' Manual.pdf - pcb.c/h - clearAllPCB - Debugging and documentation which led to changes in various files
Olivia Gottlieb	- sys_call.c (full file) - sys_call.h (full file) - kernel.mk - commandHandler.c "void" added to all empty parentheses - Contributions.pdf - User's Manual.pdf - Programmers' Manual.pdf
Nada Mikky	- Load_R3.c (full file) - Load_R3.h (full file) - Commands.c (full file) *Some of* Commands.h *Some of* Contributions.pdf *Some of* User's Manual.pdf *Some of* Programmers' Manual.pdf

R4

Name	Contributions
Kylie Burke	- load_sys.c/h (full file) - Contributions.pdf - User's Manual.pdf - Programmers' Manual.pdf - Comhand.c - Altering for R4 specifications including yielding and exiting - Debugging and documentation which led to changes in various files
Olivia Gottlieb	- command_Handler.c/h - Connected alarm to command_Handler and validate the input time for the alarm *Some of* Contributions.pdf *Some of* Programmers' Manual.pdf
Nada Mikky	*Some of* Contributions.pdf *Some of* Programmers' Manual.pdf *Some of* commands.h - commands.c - alarm.c (full file) - alarm.h (full file)

R5

Name	Contributions
Kylie Burke	- commandHandler.c - R5 commands and <u>R3 individual loaded processes bonus</u> - R5_lib.c/h (full file) - color_styles.c/h (full file) - Load_R3.c/h - load_process() - Contributions.pdf - User's Manual.pdf - Programmers' Manual.pdf - Debugging and documentation which

	led to changes in various files
Olivia Gottlieb	• Fixed alarm.c
Nada Mikky	• commands.c • commands.h • *Some of* Contributions.pdf • *Some of* Programmers' Manual.pdf • *Half of* stdlib.c • *Half of* stdlib.h • *Updated* itoa() in stdlib.c • *Updated* concat() in getset.c

R6

Name	Contributions

Kylie Burke	• serial_interrupts.c/h
	  ○ serial_read
	  ○ serial_write
	  ○ serial_interrupt
	  ○ serial_input_interrupt
	  ○ serial_output_interrupt
	  ○ valid_device
	  ○ device_id_to_int
	  ○ device_int_to_dev
	  ○ struct dcb
	• Io_scheduler.c/h
	  ○ struct iocb
	  ○ Assisted
	    ■ enqueue_iocb
	    ■ dequeue_iocb
	    ■ iocb_free
	    ■ check_event_flags
	• serial_isr.s
	• Contributions.pdf
	• User's Manual.pdf
	• Programmers' Manual.pdf
	• Debugging and documentation which led to changes in various files

Olivia Gottlieb	• io_scheduler.c/.h
	  ○ enqueue_iocb
	  ○ dequeue_iocb
	• Debugging assistance
	• Contributions.pdf
	• Programmers' Manual.pdf

	- Updated - serial_interrupts.c/h - sys_call.c - kmain.c - commands.c - help_insts.c
Nada Mikky	*Updated* kernel.mk *Some of* Contributions.pdf - Programmers' Manual.pdf - Updated: - commands.c - commands.h - commandHandler.c - io_scheduler.c/h - check_event_flags() - serial_interrupts.c/h - get_dcb_by_device() - serial_open() - serial_close() *Updated* sys_call()