**CS450 – Macaroni Penguins**

* **Caleb Edwards**
* **Austin Driggs**
* **Eammon Anderson**
* **Nathan Thom**

**USERS GUIDE**

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# Help Command - Call by typing "help" in the terminal.

This command will list the available commands to the user with a brief description.

Calling "help" after a command will list the command arguments available. For example

typing "exit help" in the terminal will show the exit command arguments such as "exit force"

## Available Arguments:

N/A

# Exit Command - Call by typing "exit" in the terminal.

This command will start the shutdown process of the operating system, and then ask for confirmation by the user. To confirm, after typing "exit" you will be prompted to enter "Y" or "n". Entering "Y" will shutdown the operating system and entering "n" will return the user and prevent shutdown.

## Available Arguments:

"exit force" - This command shuts down the operating system without confirmation.

"exit help" - This command lists the available arguments for the "exit" command.

“shutdown” – Prompts for the regular exit protocol.

# Version Command - Call by typing "version" in the terminal.

This command will display the current version of the MacaroniOS. Including whether the version is clean or dirty based on the repository status in github.

## Available Arguments:

“version help” – Lists available version commands.

“version latest” – Shows the latest version.

“version history” – Displays the version history.

# Clock Command – Call by typing “clock” in the terminal.

This command allows the user to interact with the systems Real Time Clock. It can retrieve or set the system date and time and then display it.

## Available Arguments:

“clock help” – Display the list of commands for clock.

“clock get time” – Displays the current system time.

“clock get date” – Displays the current system date.

“clock set time HH:MM:SS” – Sets the system time to HH:MM:SS.

“clock set date MM/DD/YY” – Sets the system date to MM/DD/YY.

# Show Process – Call by typing “show” in the terminal.

This command allows the user to interact with the process control block. It lets the user show individual processes, or grouped processes based on different parameters.

## Available Arguments:

“show help” – Display the list of commands for the show process command.

“show <name>” – Shows the named process if it exists.

“show ready” – Shows the processes in the ready queue.

“show blocked” – Shows the processes in the blocked queue.

“show suspended” – Shows the processes that are currently suspended.

“show all” – Shows all processes in every queue.

# Priority Set – Call by typing “priority set” in the terminal.

This command allows users to modify the priority of user level processes in different process queues.

## Available Arguments:

“priority set help” – Display the list of commands for the priority set command.

“priority set <name> <priority>” – Changes the priority of the named process.

# Process Suspend – Call by typing “suspend” in the terminal.

This command allows the user to suspend a given process as long as it is at the user level and not a kernel process.

## Available Arguments:

“suspend help” – Display the list of commands for the suspend command.

“suspend <name>” – Suspends the named process.

# Process Resume – Call by typing “resume” in the terminal.

This command allows the user to resume a given suspended process as long as it is at the user level and not a kernel process.

## Available Arguments:

“resume help” – Display the list of commands for the resume command.

“resume <name>” – Resumes the named process.