Dorcas Lanyero / Jeremiah England

Computer Systems (CPS-230)

Final Project (Pong)

PONG REPORT

**Overview:**

This is a simple game with a ball that moves back and forth on the screen and two paddles on the sides of the screen. The player is to prevent the ball from touching the end of the screen by moving the paddle using the keys W, Q, A, S. When the paddle hits the ball it should bounce back the middle of the screen thus preventing it from touching the end of the screen.

**Results:**

**Features completed**

* Printing the puddles on the screen
* Printing the ball on the screen
* Playing music
* Ball movement on the screen
* Bootloader

**Bugs**

* The paddles can go off the screen if the player keeps pressing the movement keys
* The game sometimes stops abruptly
* There is no score updating happening
* The puddles do not prevent the ball from hitting the end of the screen

**Details:**

This game has three tasks; printing the screen, playing sound and updating the game. Printing screen task calls the appropriate methods to print the ball, the paddles, and paint the screen black.

The yield method is called after each of these tasks.

The Play music task plays the music notes in the play sound method continuously as the game progresses. The wait method is also called in this task to leave some time between the music notes as they are called.

The update game task updates the position of the paddles on the screen, the position of the balls on the screen, and the scores.

**Contributions:**

Dorcas Lanyero.

**Alpha**

* Updating the screen
* Painting the screen black
* Printing the screen
* Tasks 3
* Data section
* Main methods

**Beta**

* Bootloader

**Release Candidate**

* Music
* Ball movement
* Screen improvement

Jeremiah England:

**Alpha**

* Loop forever methods
* Spawn new task methods
* Data section
* Printing screen
* Updating the game
* Main methods

**Beta**

* No contribution

**Release Candidate**

* No contribution

**Hours:**

Dorcas 39

Jeremiah ??

**Help Sources.**

* <http://www.stanislavs.org/helppc/int_15-86.html>
* <http://muruganad.com/8086/8086-assembly-language-program-to-play-sound-using-pc-speaker.html>
* Dr. Ethan McGee
* Peter Labadorf
* Couse resources