

Assembly Project: Breakout

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1 Instruction and Summary

1. Which milestones were implemented?

1-5:

Easy features: - Multiple lives (3) - Pause (press p) - Launch ball (press spacebar) - Sound Effects (collisions, launching, and game over)

Hard features: - Different angles from paddle collision

2. How to view the game:

- (a) Unit of 8 pixels for width and height.
- (b) Width of 256 pixels.
- (c) Height of 512 pixels.

3. Game Summary:

- Use a and d to move the paddle
- Press spacebar to launch the ball at the beginning of the game
- You have three lives
- When the ball hits directly in the middle of the paddle, it bounces straight up
- When the ball hits the very edge of the paddle, it bounces at a harsh angle
- Otherwise, it bounces at a 45 degree angle
- Press p to pause and unpause the game
- When you lose the entire game, a sad face will show
- You can also press q or esc to quit the game
- To restart on the sad face screen, press r
- To fully exit the game, press q or esc on the sad face screen
- Turn on the volume to enjoy the sounds of MIDI bytes

Doing the two arrays for the brick colours and positions were difficult, but I was able to do it so that I could properly paint on and off the pause screen! I also had to figure out how to use the sounds by looking at the MIPs site about syscalls.

