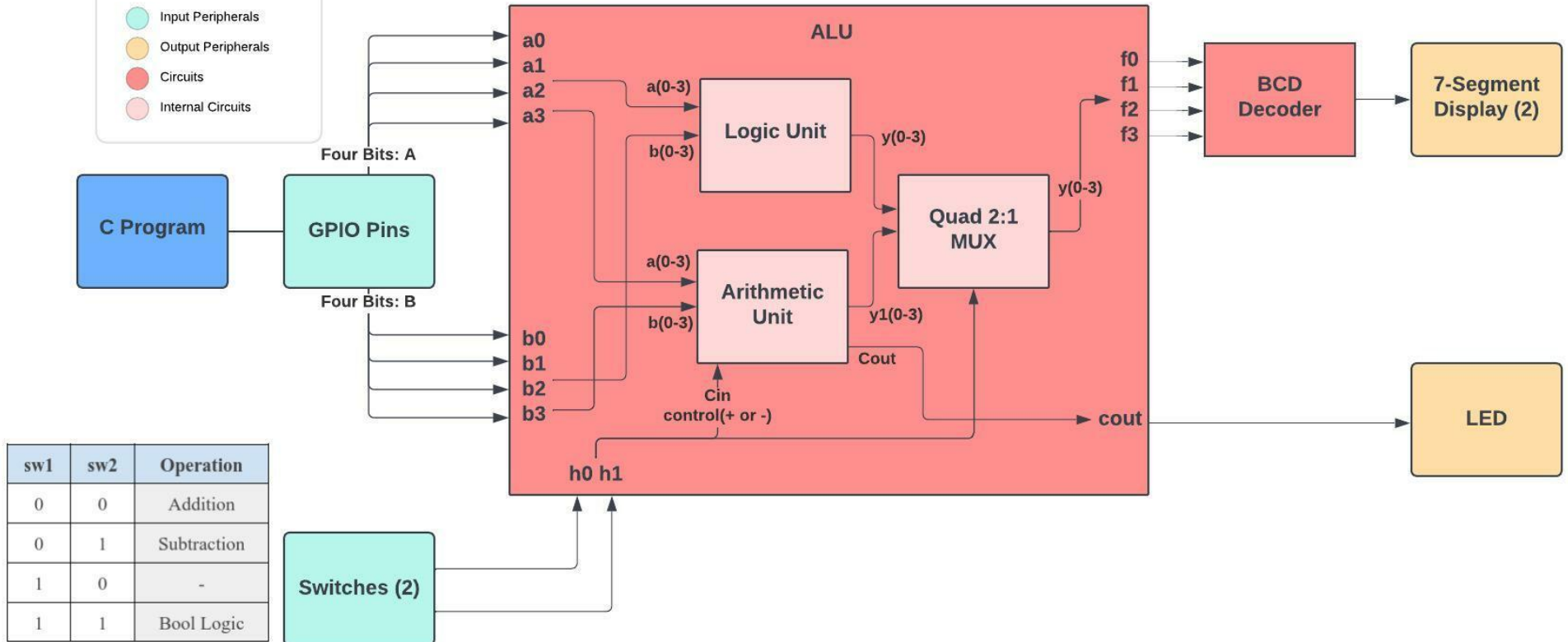


## Milestone 2: "Poorman's ALU" System Design

### Diagram Key

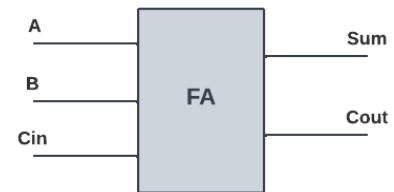
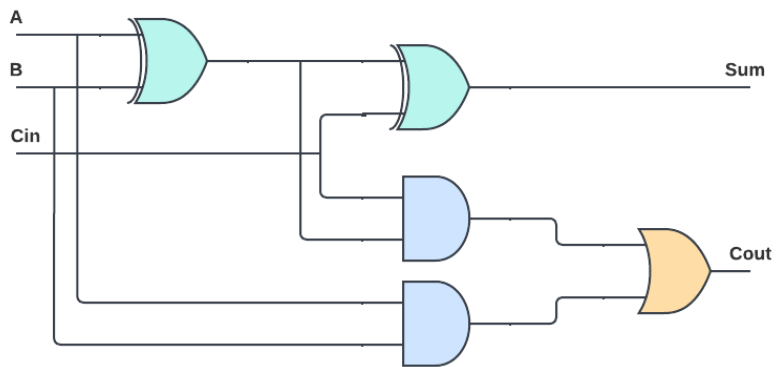
- Input Peripherals
- Output Peripherals
- Circuits
- Internal Circuits



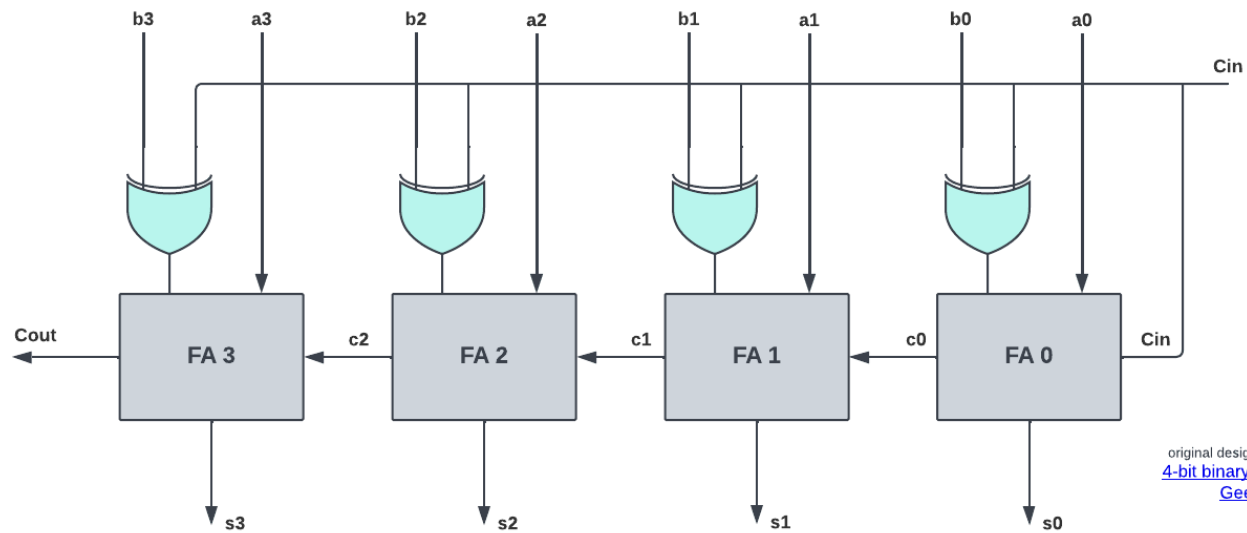
## Milestone 2: "Poorman's ALU"

Arithmetic Unit: Circuit & Block Diagrams

### 1-bit Full-Adder (FA)

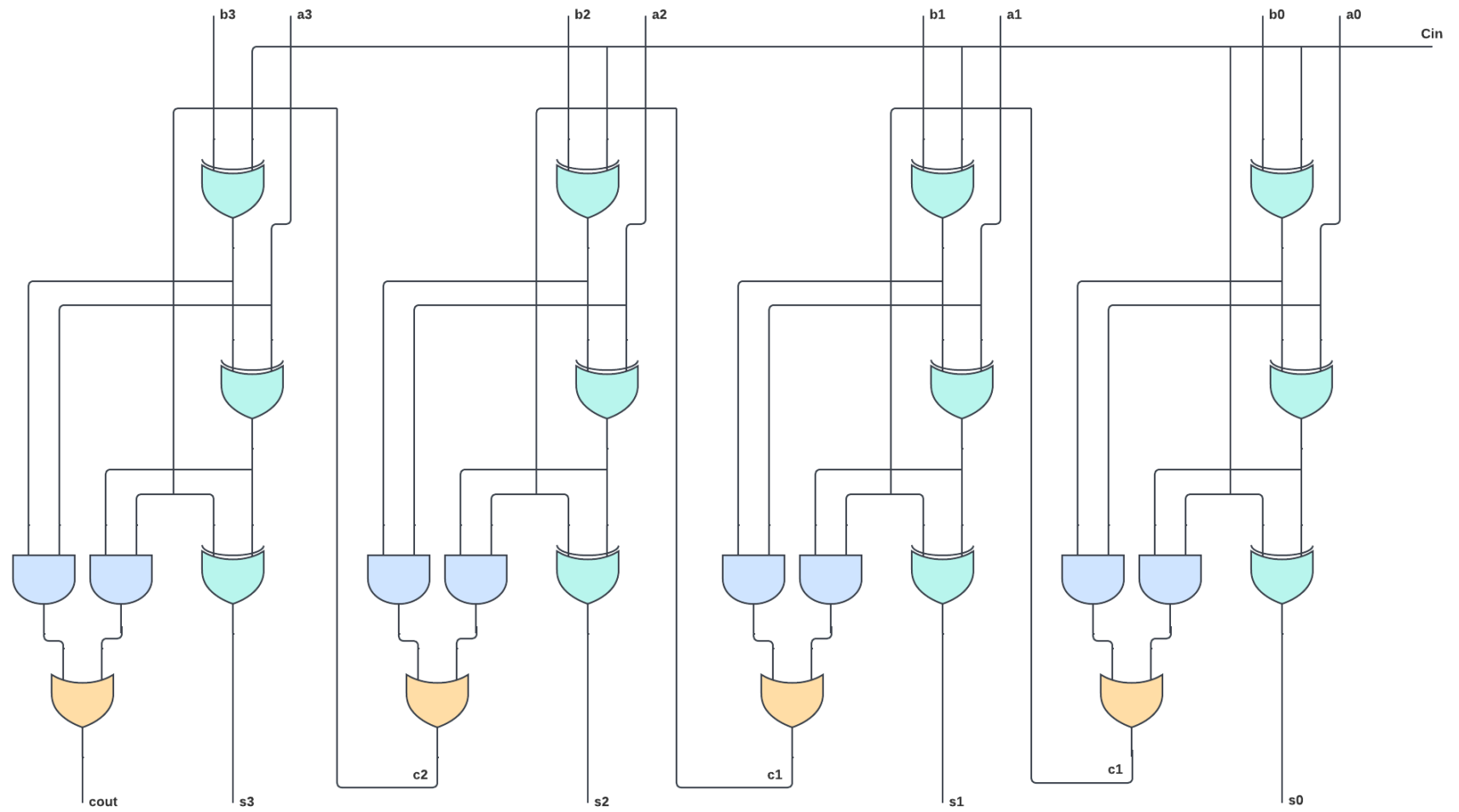


### 4-bit Full-Adder



original design from GeeksforGeeks:  
[4-bit binary Adder-Subtractor - GeeksforGeeks](#)

## Full Circuit Design (Integrating the Two from Above)



Logic Unit Will consist of AND gates that send 4-bits to the MUX. I've not Yet designed the MUX

## Milestone 2: "Poorman's ALU"

Logic Unit Circuit Diagram

