# Logisim – Building an ALU

## Lab 6:

Purpose

Build an Arithmetic Logic Unit (ALU) from scratch, using these simple logic gates and other components. The ALU will take in two 8-bit values, and 2 control lines. Depending on the value of the control lines, the output will

What to Hand In

Completed ALU8.circ

1. Create an 8-bit ALU with limited functionality. The ALU will take in two 8-bit values, and 2 control lines. Depending on the value of the control lines, the output will be the addition, subtraction, greater than, less than, or equal of the inputs.