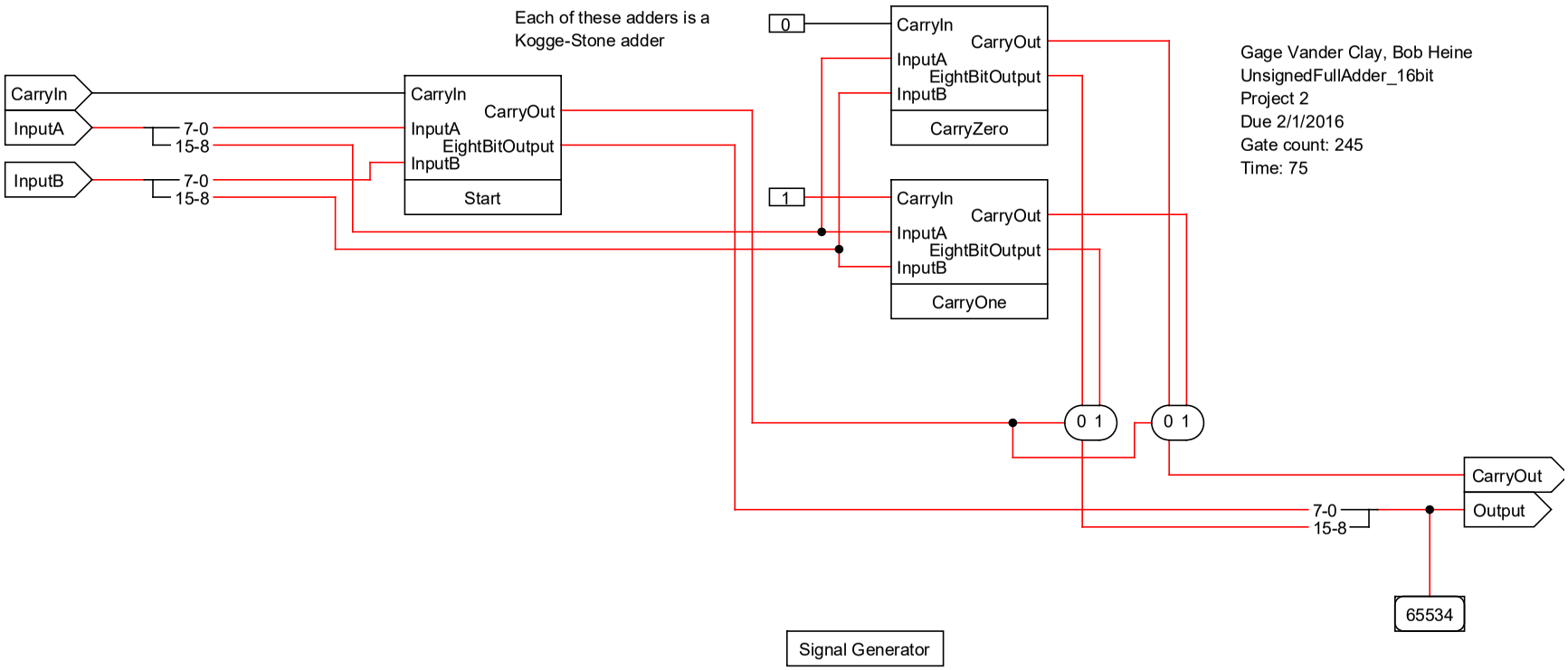
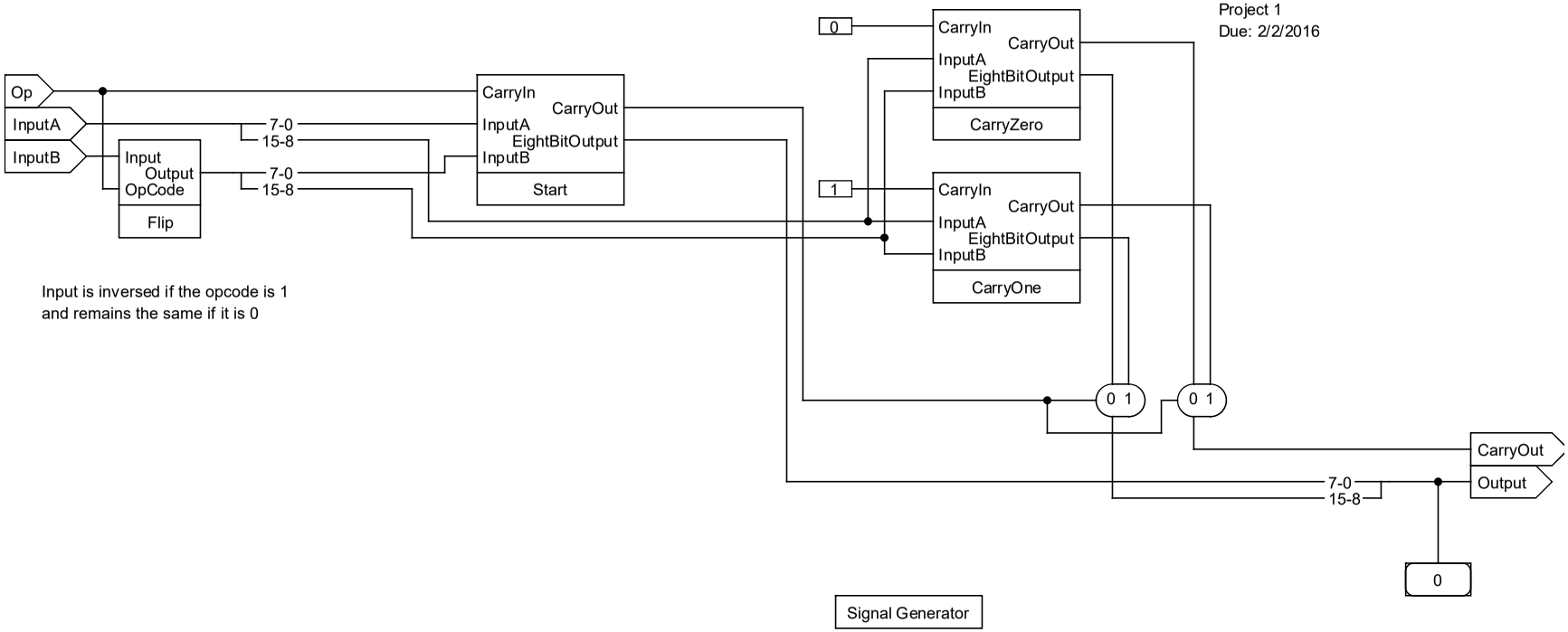
UnsignedFullAdder_16bit



AdderSubtractor

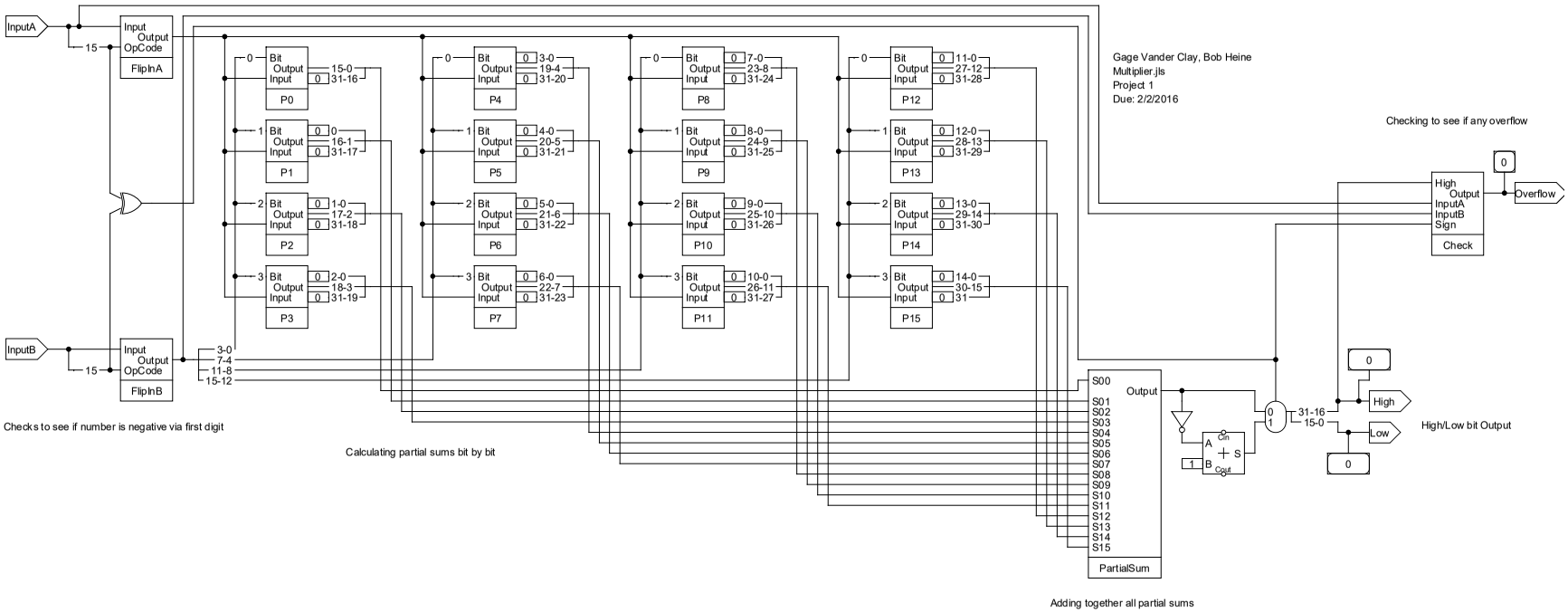
These are Kogge-Stone Adders formed together
into a carry select adder

Gage Vander Clay, Bob Heine
AdderSubtractor.jls
Project 1
Due: 2/2/2016

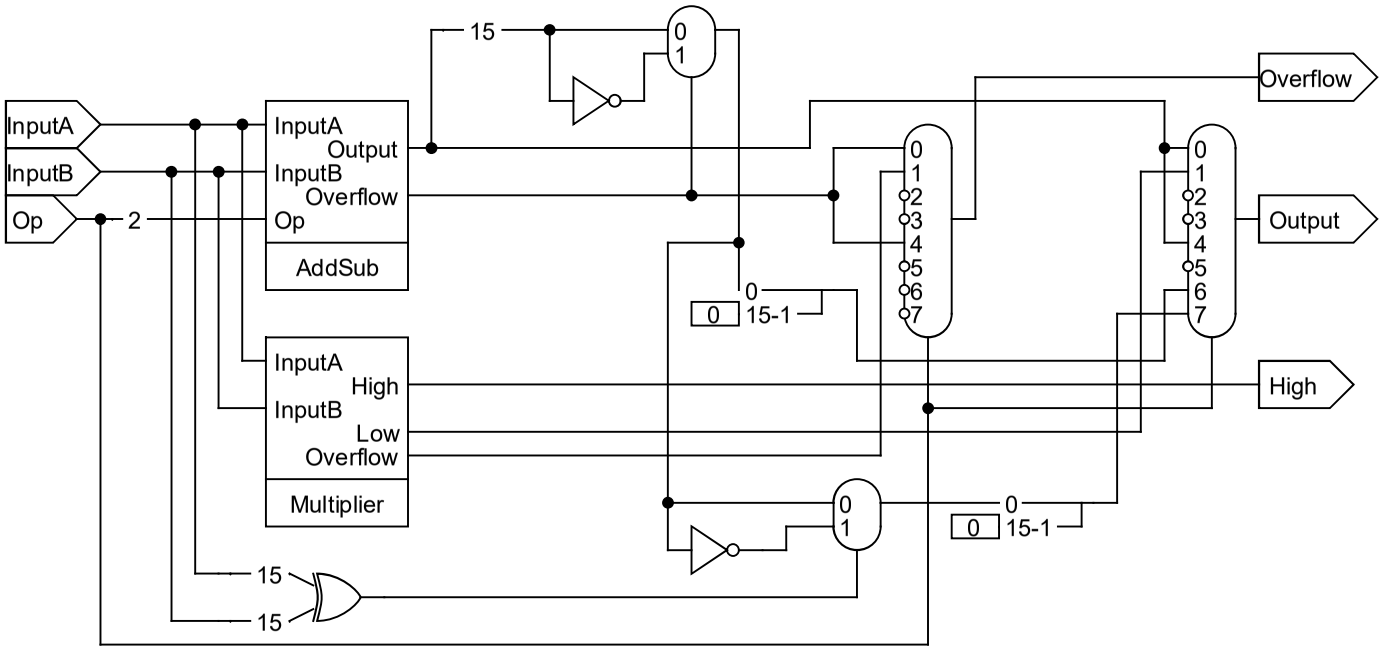


Input is inversed if the opcode is 1
and remains the same if it is 0

Multiplier


Gage Vander Clay, Bob Heine
Multiplier.jls
Project 1
Due: 2/2/2016
InputA
InputB
Input Output OpCode
FlipInA
FlipInB
Checks to see if number is negative via first digit
Calculating partial sums bit by bit
Checking to see if any overflow
High Output InputA InputB Sign
Check
Overflow
High
Low
High/Low bit Output
PartialSum
Adding together all partial sums

ALU



Gage Vander Clay, Bob Heine
ALU.jls
Project 1
Due: 2/2/2016

Signal Generator