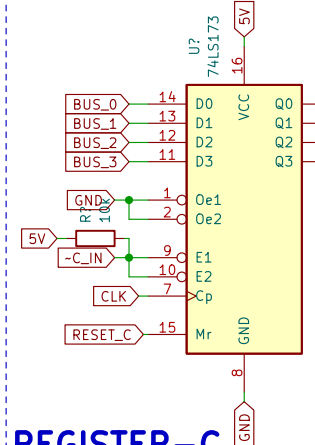
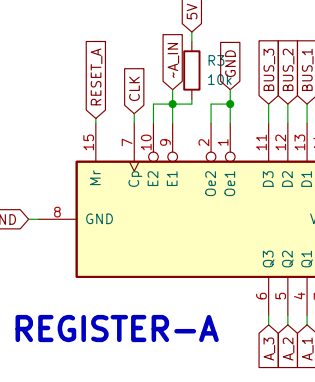


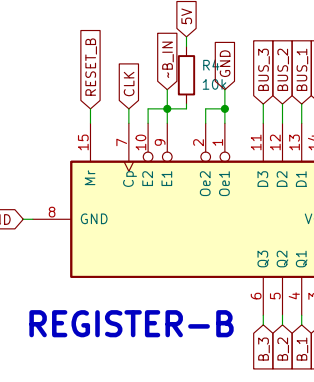
REGISTER-C



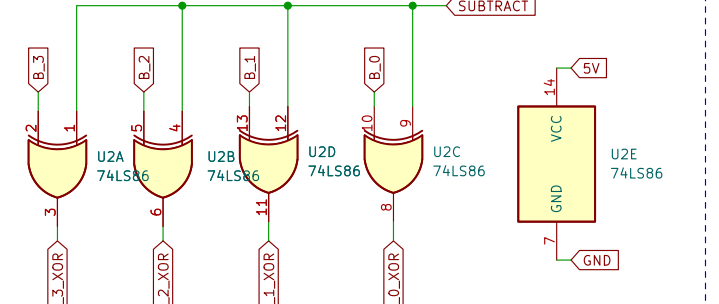
REGISTER-A



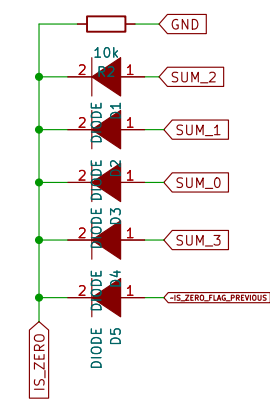
REGISTER-B



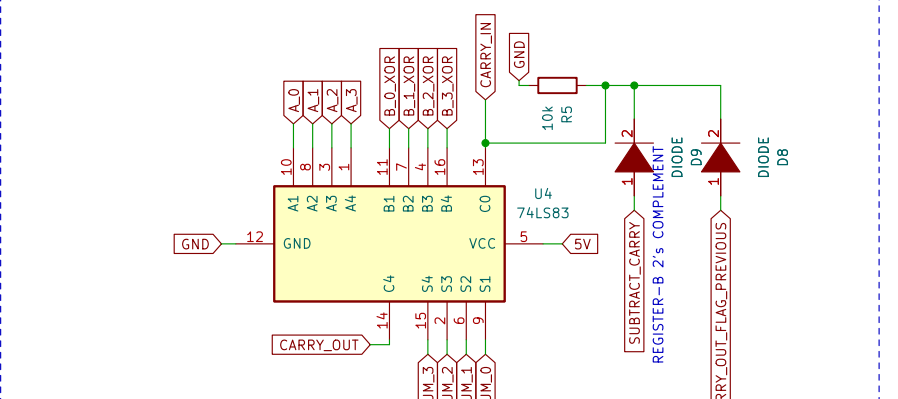
REGISTER-B 1's COMPLEMENT



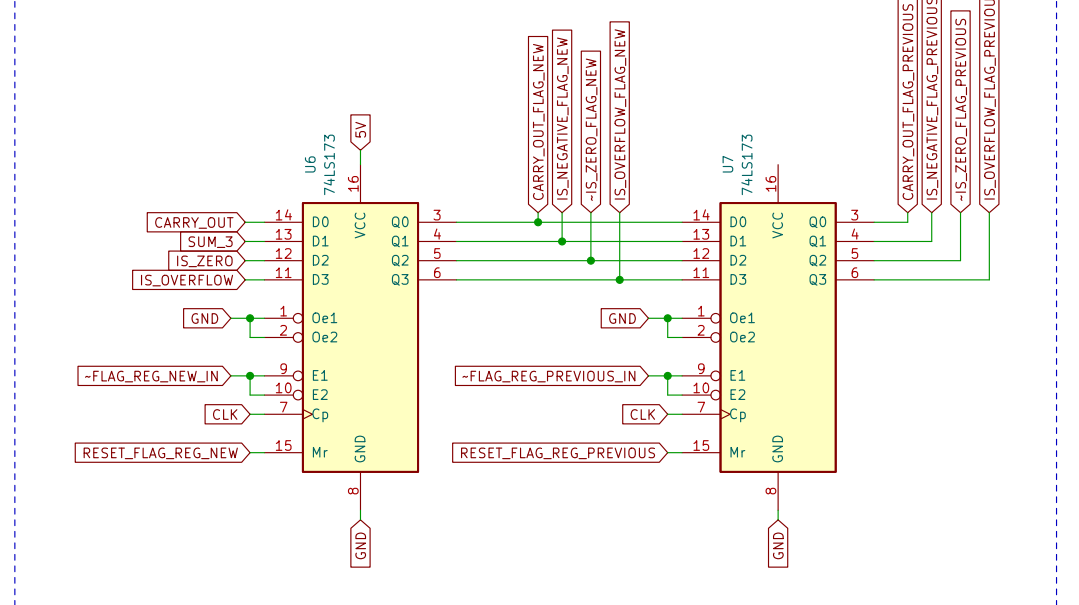
ZERO FLAG DETECT CIRCUIT



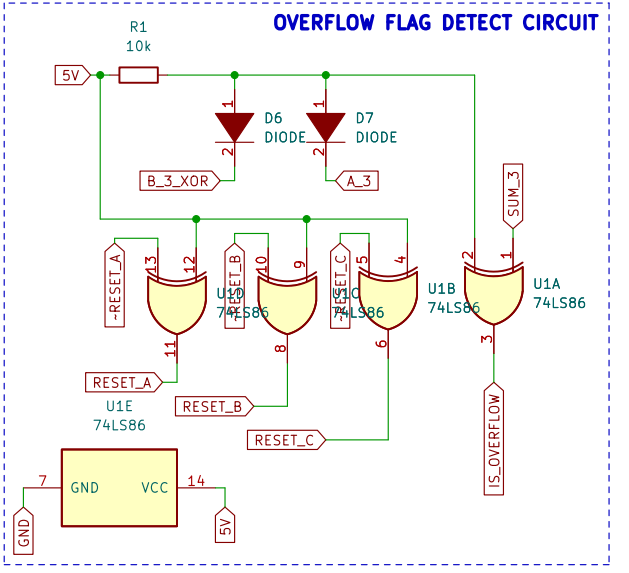
BINARY ADDER



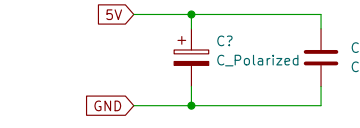
FLAG MEMORY



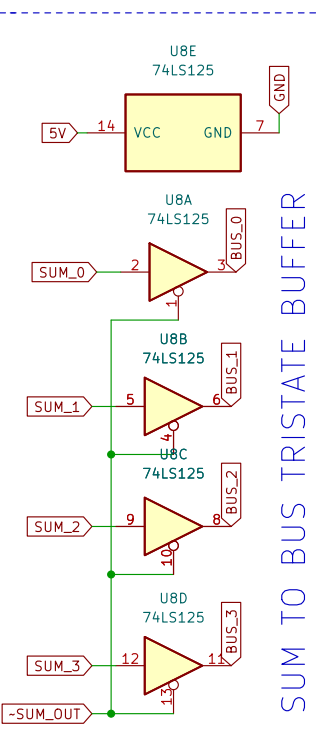
OVERFLOW FLAG DETECT CIRCUIT



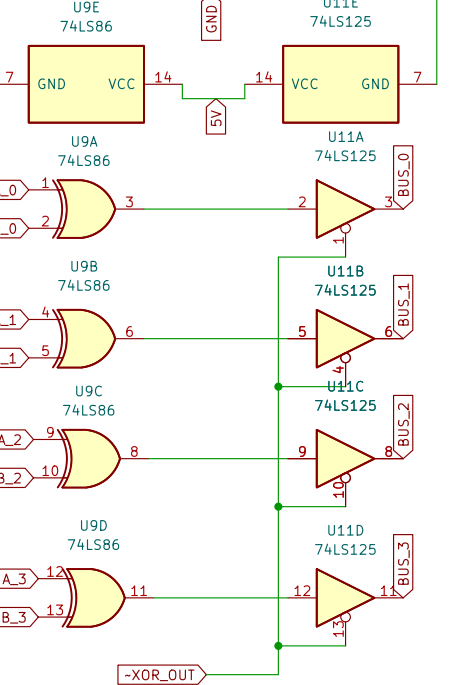
INPUT CAPACITOR



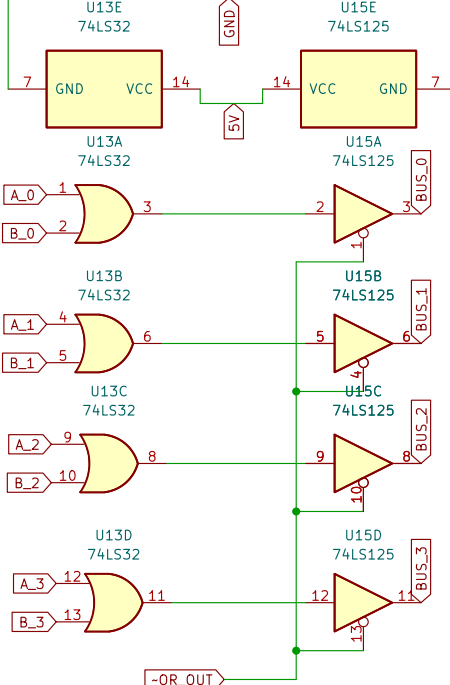
SUM TO BUS TRISTATE BUFFER



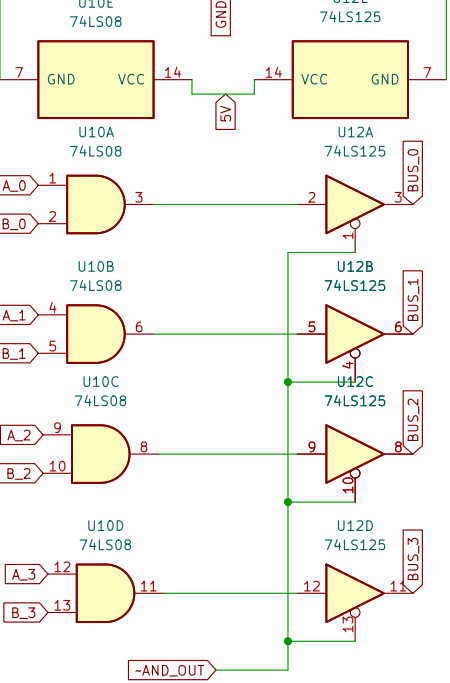
(REG-A) XOR (REG-B)



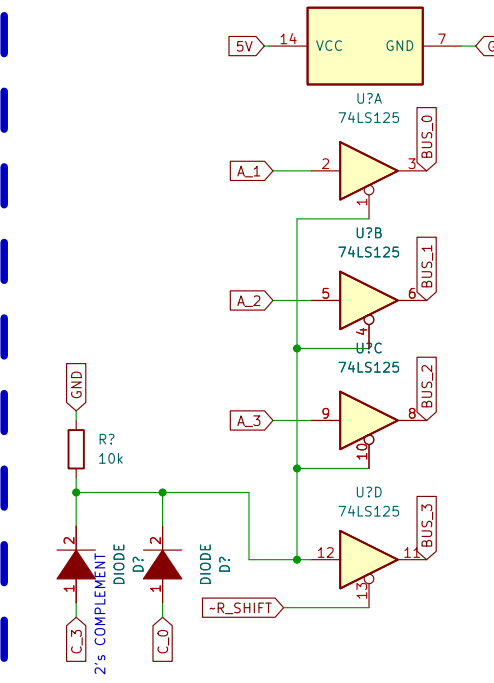
(REG-A) OR (REG-B)



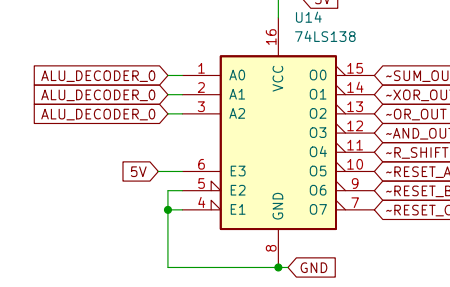
(REG-A) AND (REG-B)



RIGHT SHIFT



ALU 3-TO-8 DECODER



Logic Gate	Symbol	Description	Boolean
AND		Output is 1 if logic 1 values exist and only when all the inputs are at logic 1, otherwise the output is at logic 0.	$X = A \cdot B$
OR		Output is at logic 1 when one or more are at logic 1, if all inputs are at logic 0, the output is at logic 0.	$X = A + B$
NAND		Output is at logic 1 when one or more of the inputs are at logic 1, otherwise the output is at logic 0.	$X = \overline{A \cdot B}$
NOR		Output is at logic 1 when one or more of the inputs are at logic 0, otherwise the output is at logic 1.	$X = \overline{A + B}$
XOR		Output is at logic 1 when one or more of the inputs are at logic 1, otherwise the output is at logic 0.	$X = A \oplus B$
NOT		Output is at logic 1 when one or more of the inputs are at logic 0, otherwise the output is at logic 1. Similar to XOR but inverted.	$X = \overline{A}$