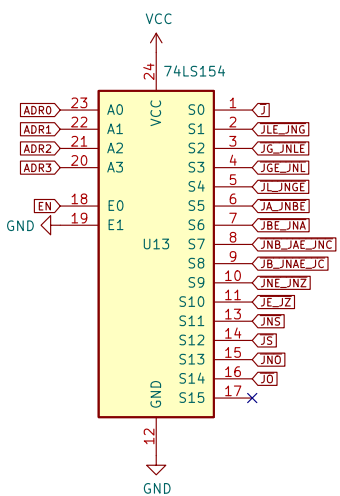
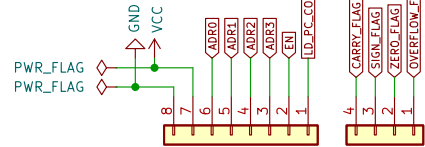


ALU Conditional Jump Logic

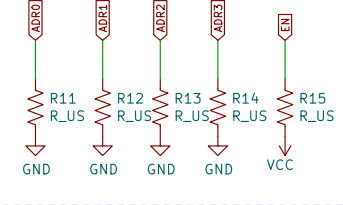
Jump and Conditional Jump MUX



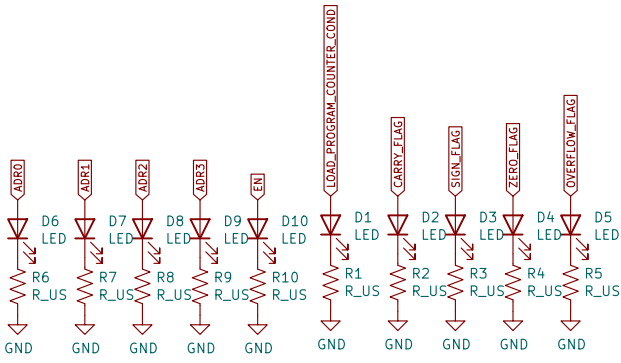
Connectors



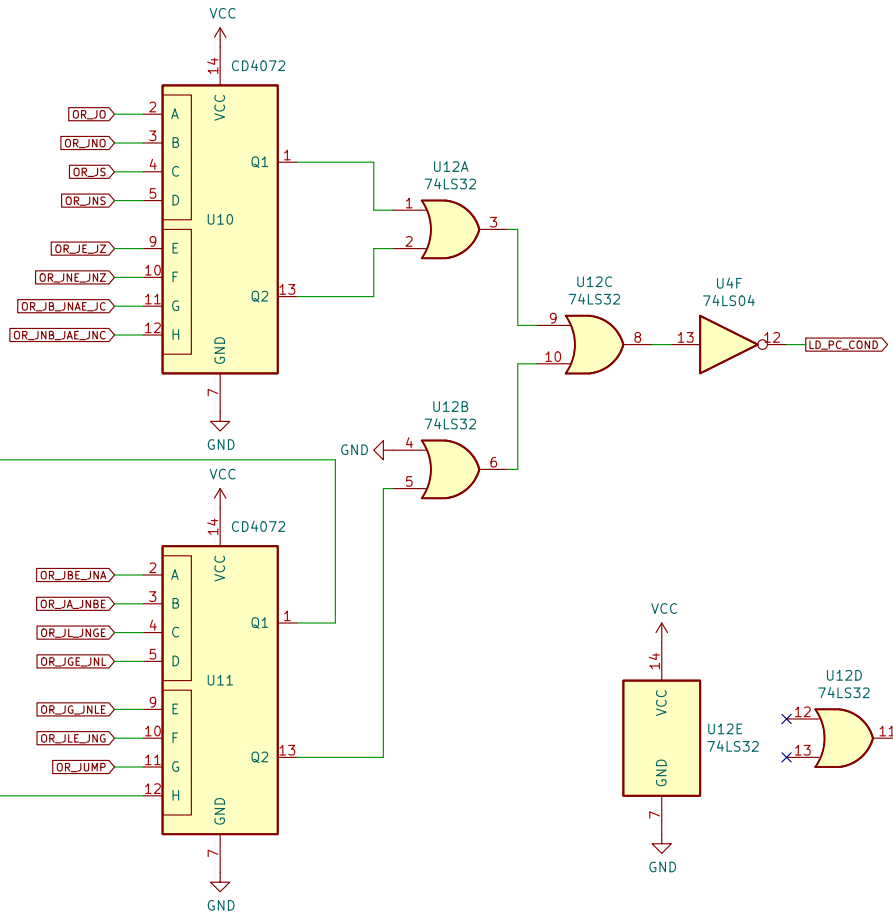
Pull U/D



LED Indicators



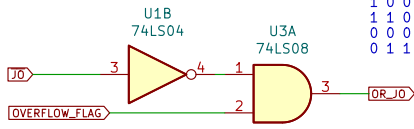
FINAL OR GATE FOR PC_LOAD control line



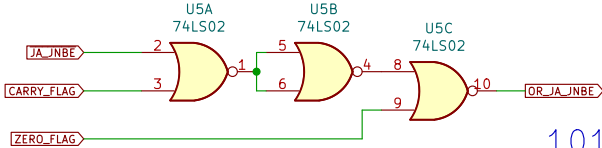
J 0000 Unconditional Jump



JO 0101 Jump if OVERFLOW OF=1



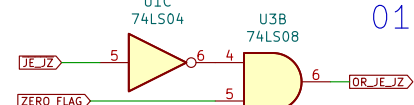
JA / JNBE Jump if above Jump if not below or equal CF = 0 and ZF = 0



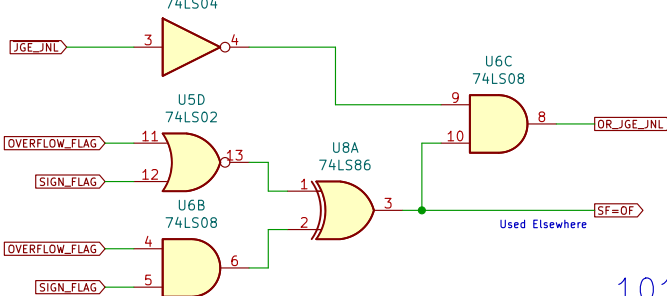
JNO 0001 Jump if NOT OVERFLOW OF=0



JE / JZ Jump if equal, Jump if zero ZF=1



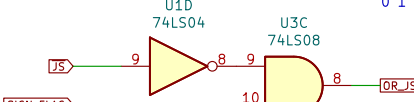
JGE / JNL Jump if greater or equal Jump if not less SF = OF



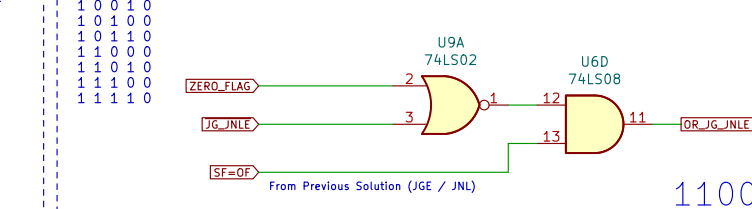
JNE / JNZ 0010 Jump if not equal Jump if not zero ZF=0



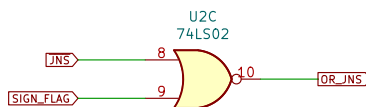
JS 0110 Jump if SIGN SF=1



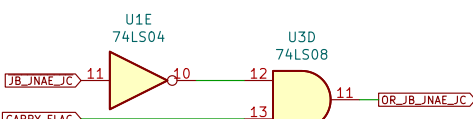
JG / JNLE Jump if greater Jump if not less or equal ZF = 0 and SF = OF



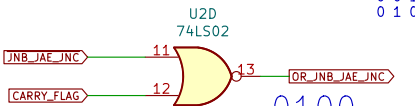
JS 0011 Jump if NOT SIGN SF=0



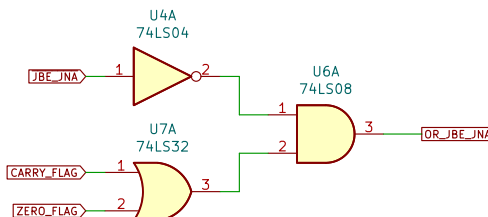
JB / JNAE / JC Jump if below Jump if not above or equal jump if Carry CF = 1



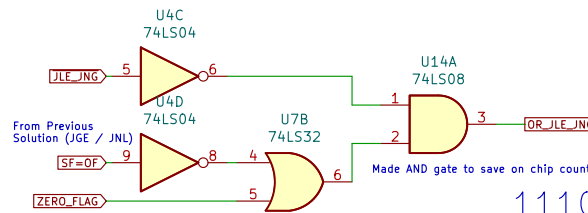
JNB / JAE / JNC Jump if not below Jump if above or equal Jump if not carry CF=0



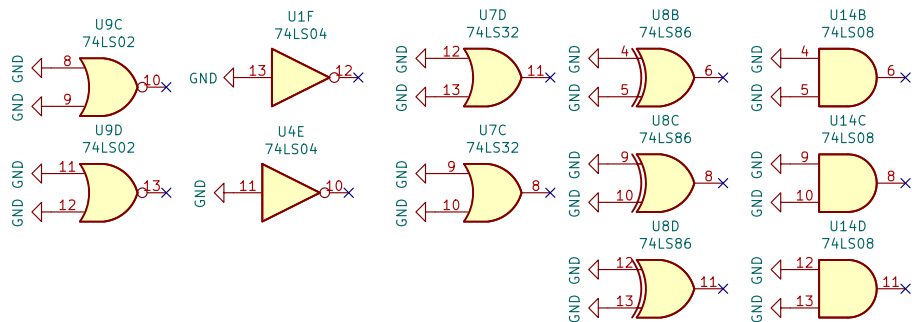
JBE / JNA Jump if below or equal Jump if not above CF = 1 or ZF = 1



JLE / JNG Jump if less or equal Jump if not greater ZF = 1 or SF <> OF



Unused Logic Gates



Logic Gates Power

