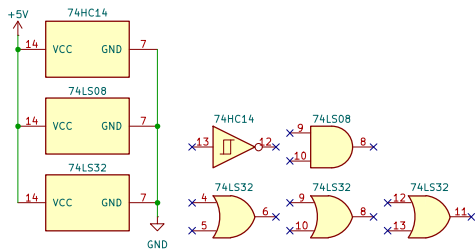
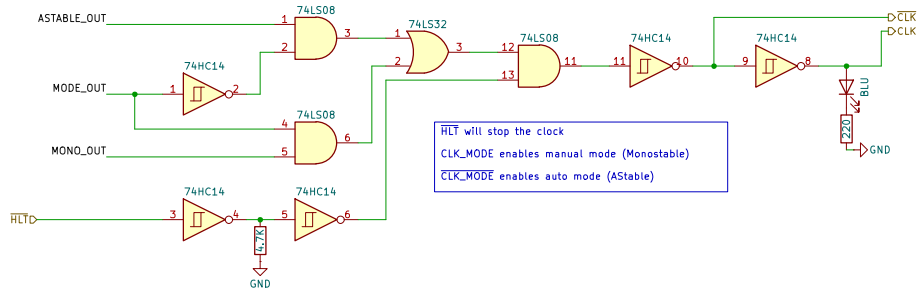
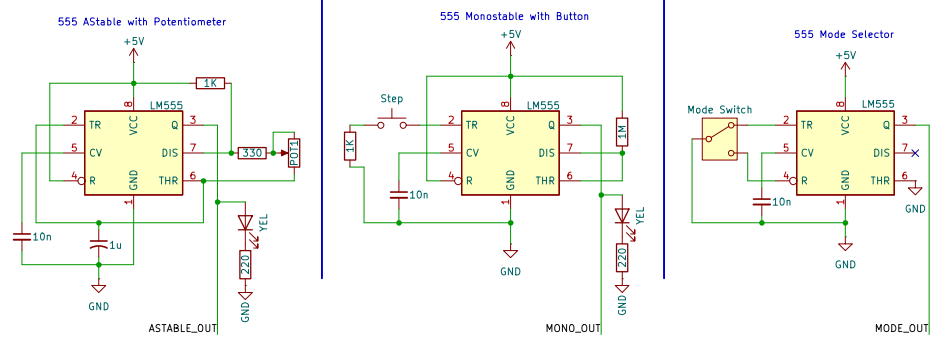




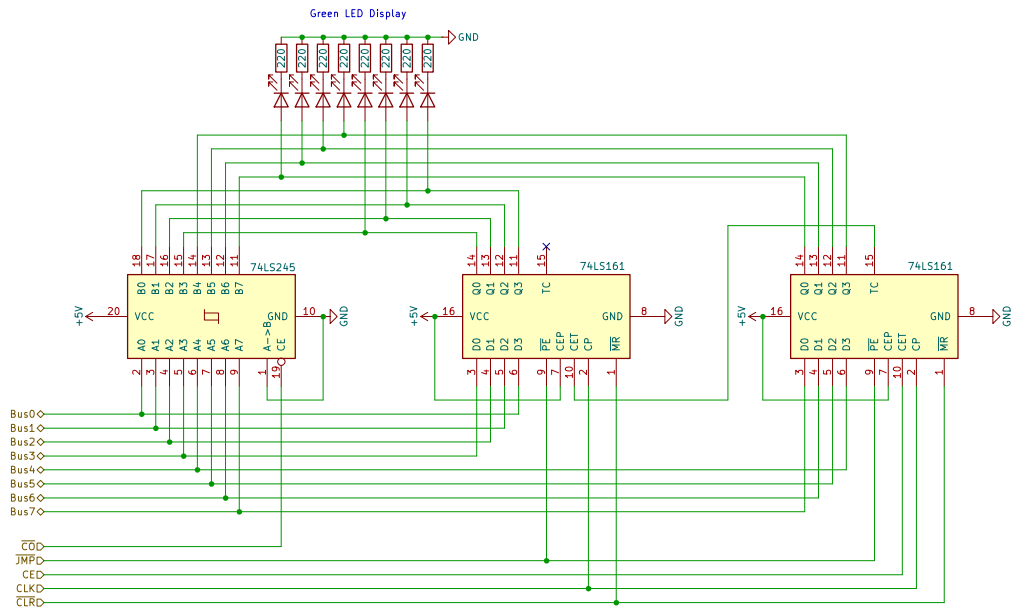
Clock (CLK)



HLT will stop the clock
CLK_MODE enables manual mode (Monostable)
CLK_MODE enables auto mode (Astable)

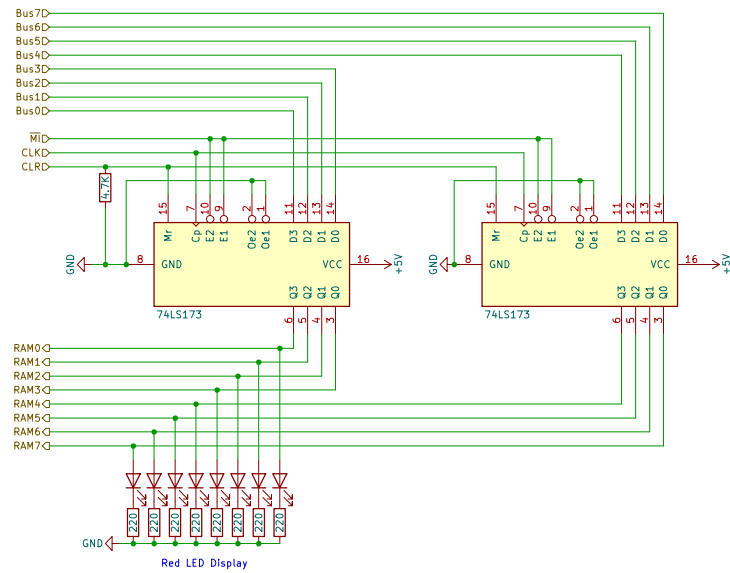


Program Counter (PC)

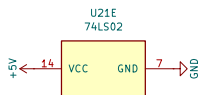
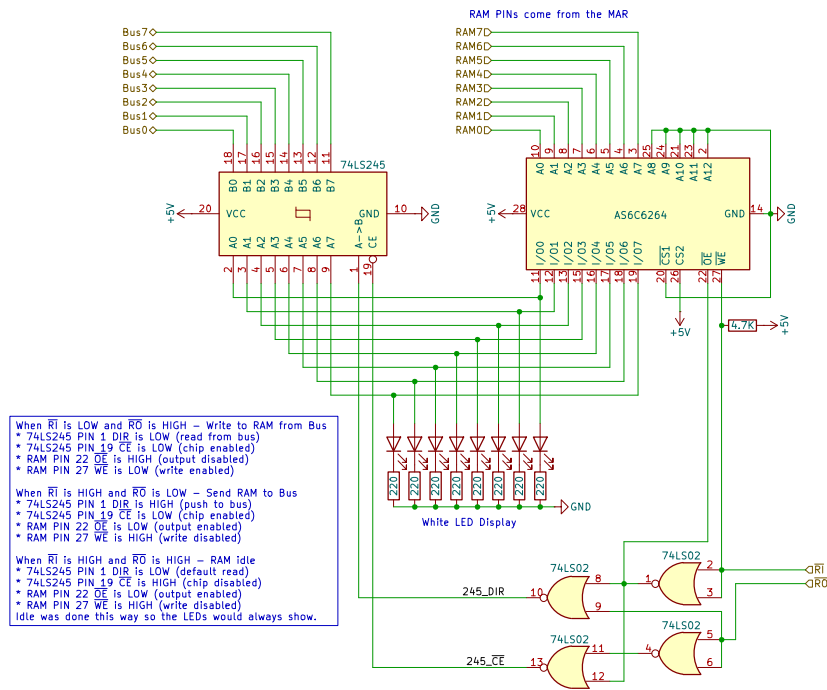




Memory Address Register (MAR)

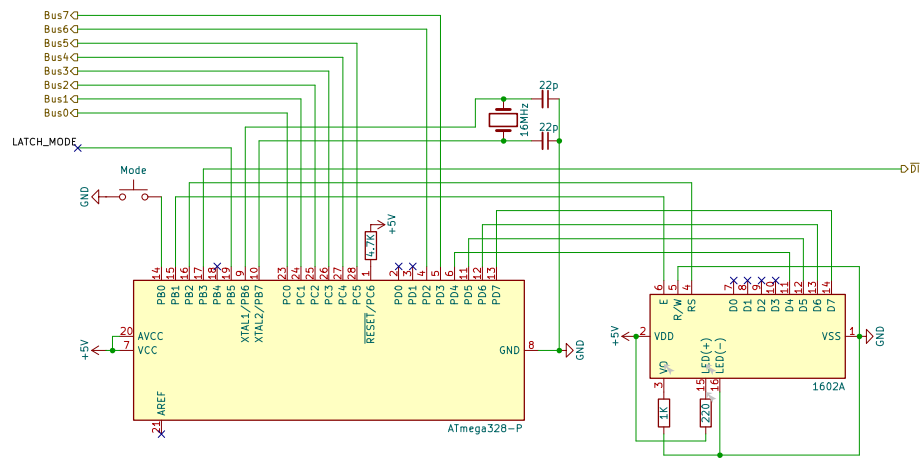


RAM





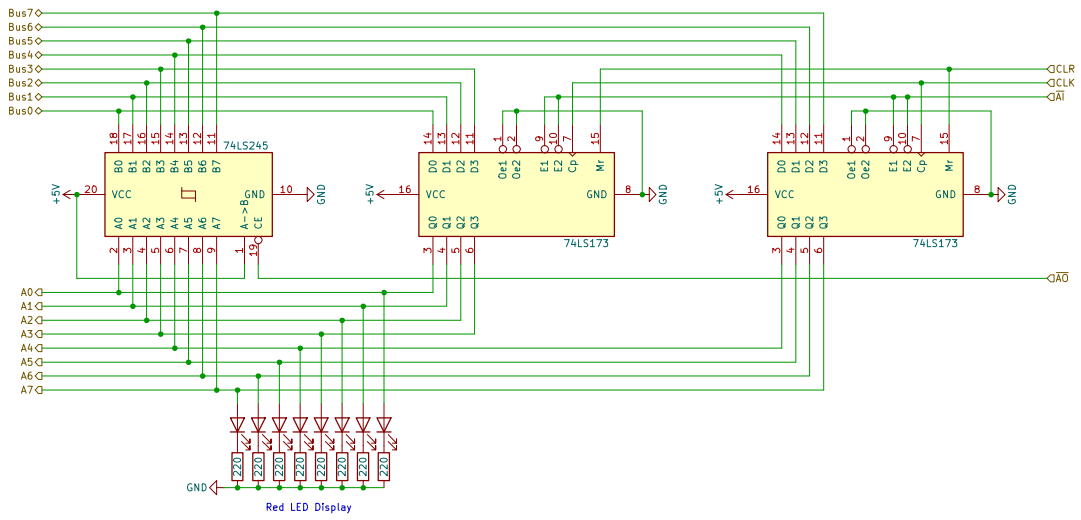
Display



ATmega328-P was programmed with an Arduino Uno.
 Sketch = display.ino
 LATCH_MODE pulls high by default.
 LATCH_MODE = only pull from bus when DI is asserted
 LATCH_MODE = show bus values always (useful for troubleshooting)
 Mode button is used to change display modes (e.g. Hex, Decimal, Binary)

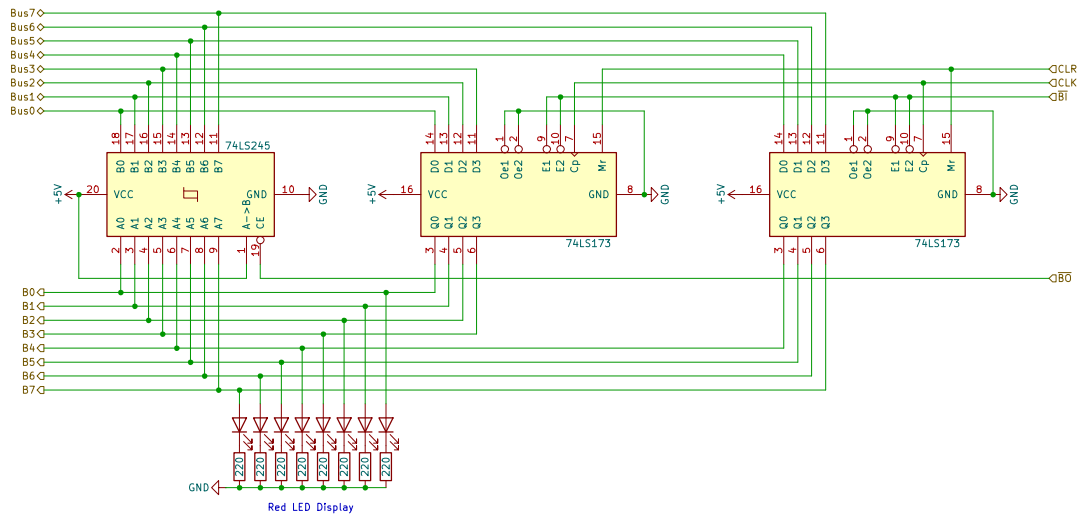


A Register



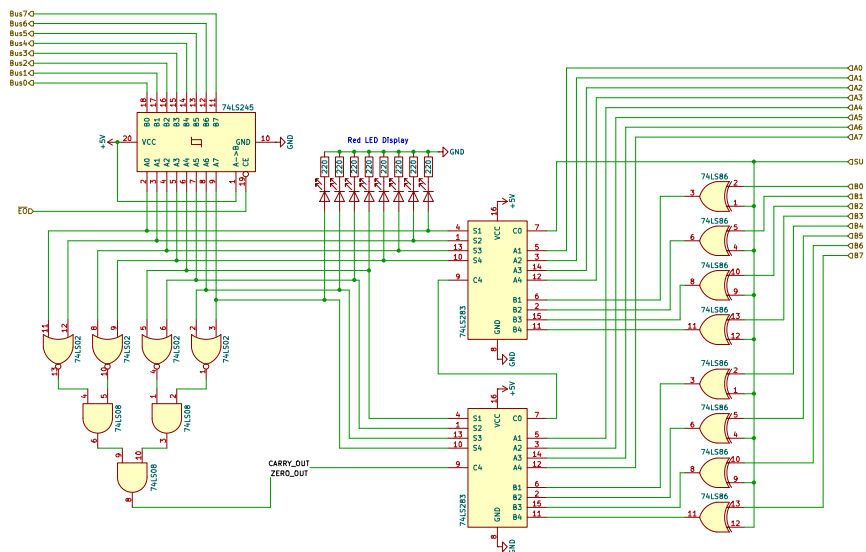


B Register

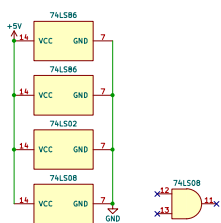
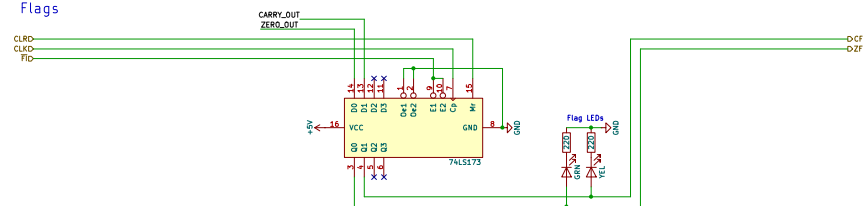




Arithmetic Logic Unit (ALU) & Flags

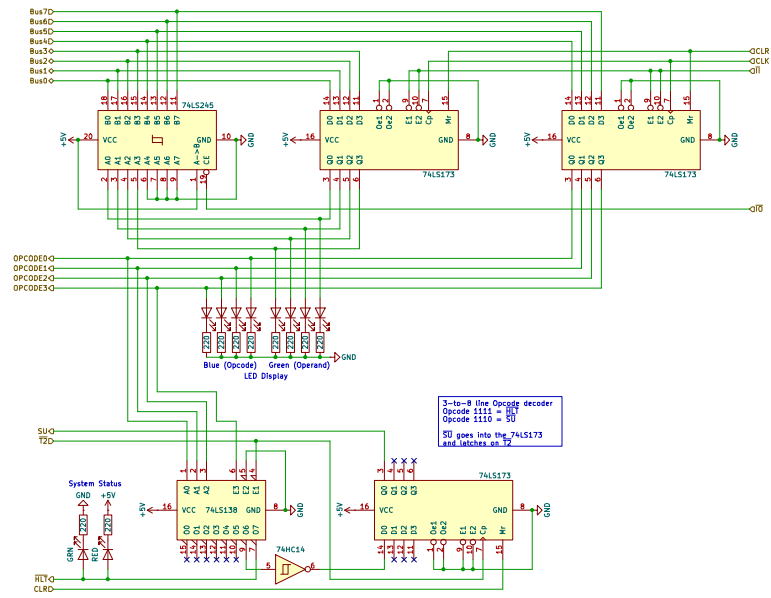


Flags





Instruction Register (IR)





Microstep Counter (uStep)

