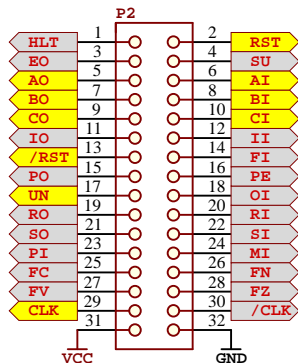
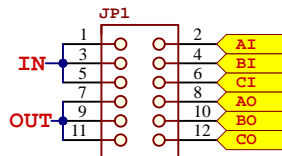


Control BUS Connector

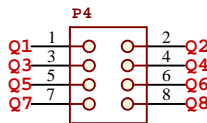


Register board setup.
Set enabled signals for
the register.

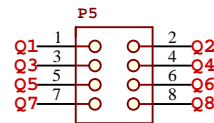
REGISTER SETUP



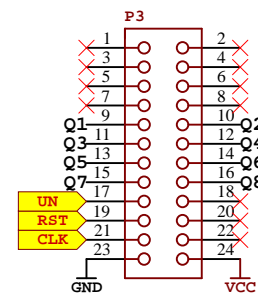
Direct Data OUT



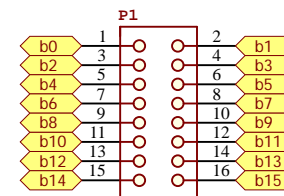
Direct Data OUT



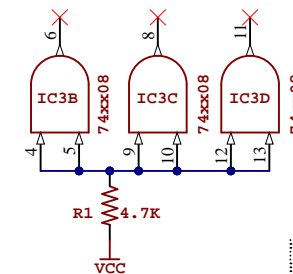
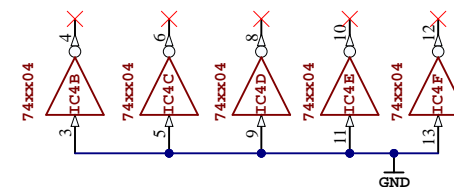
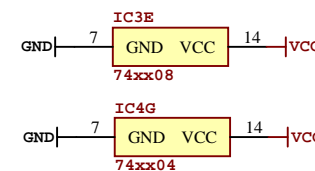
OUTPUT Connector



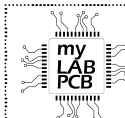
Data BUS Connector



Pull-down resistors for data
BUS lines were placed on the
BUS module.



"74xx" Indicates the use LS (TTL) or HC(CMOS)
ICs as your prefer for your build.

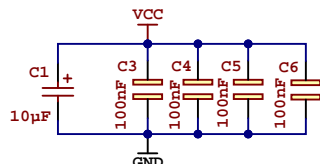
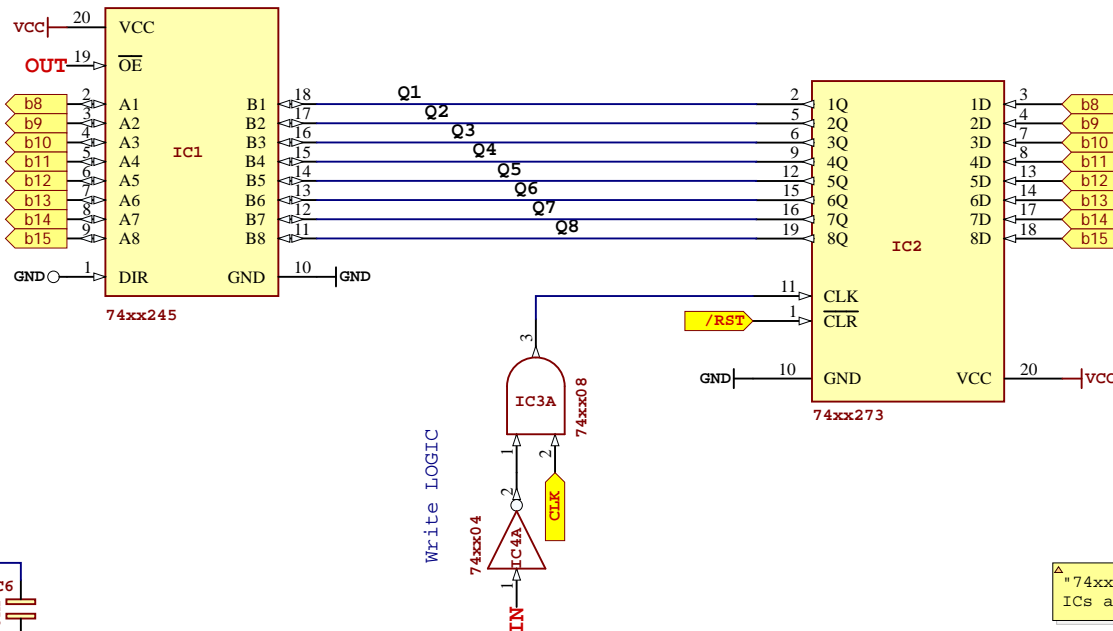


Project: myCPU Register 8b-R (273)

Revision: 7

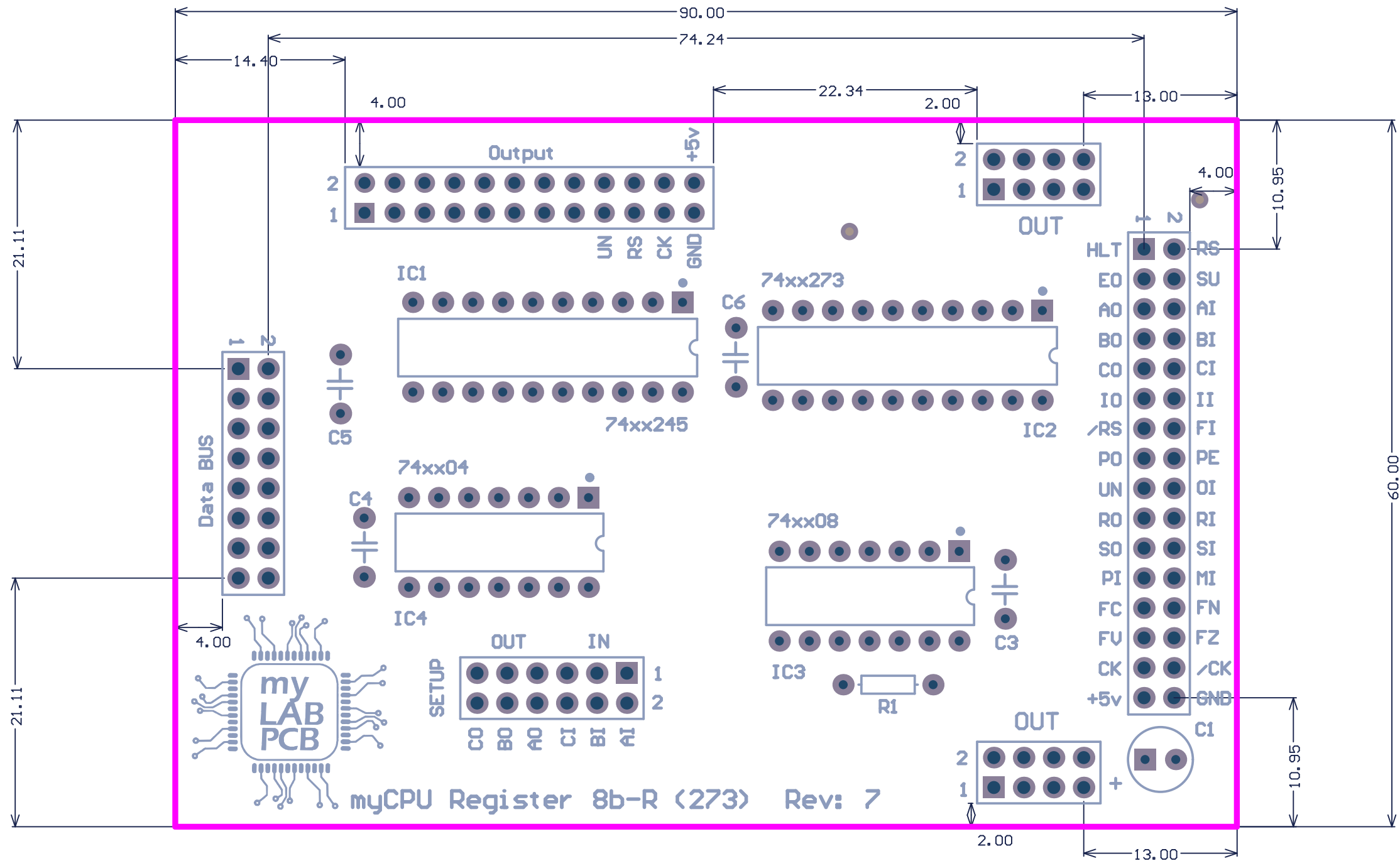
Date: 23-Jan-24

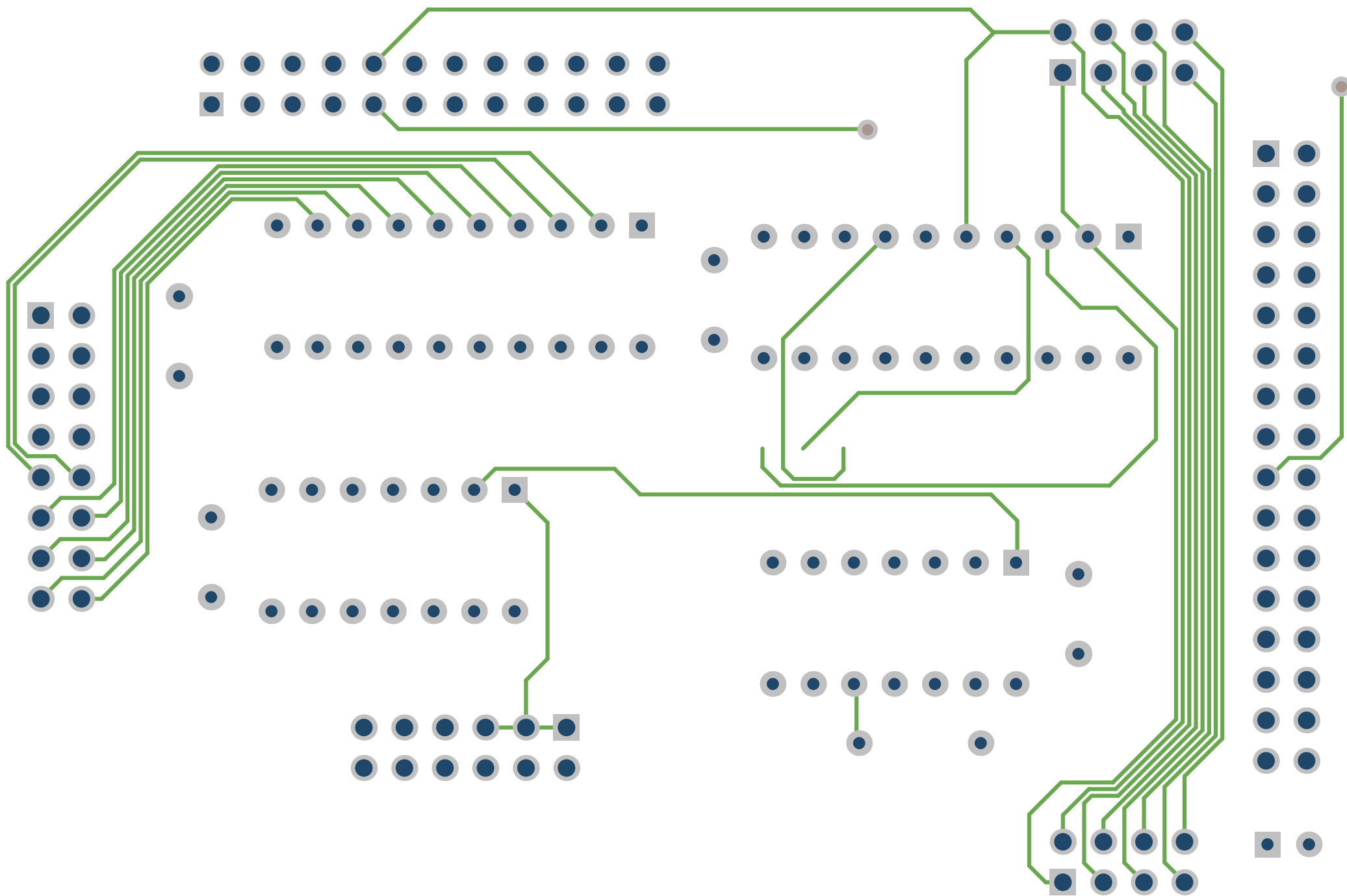
Author: Rafa Hernández

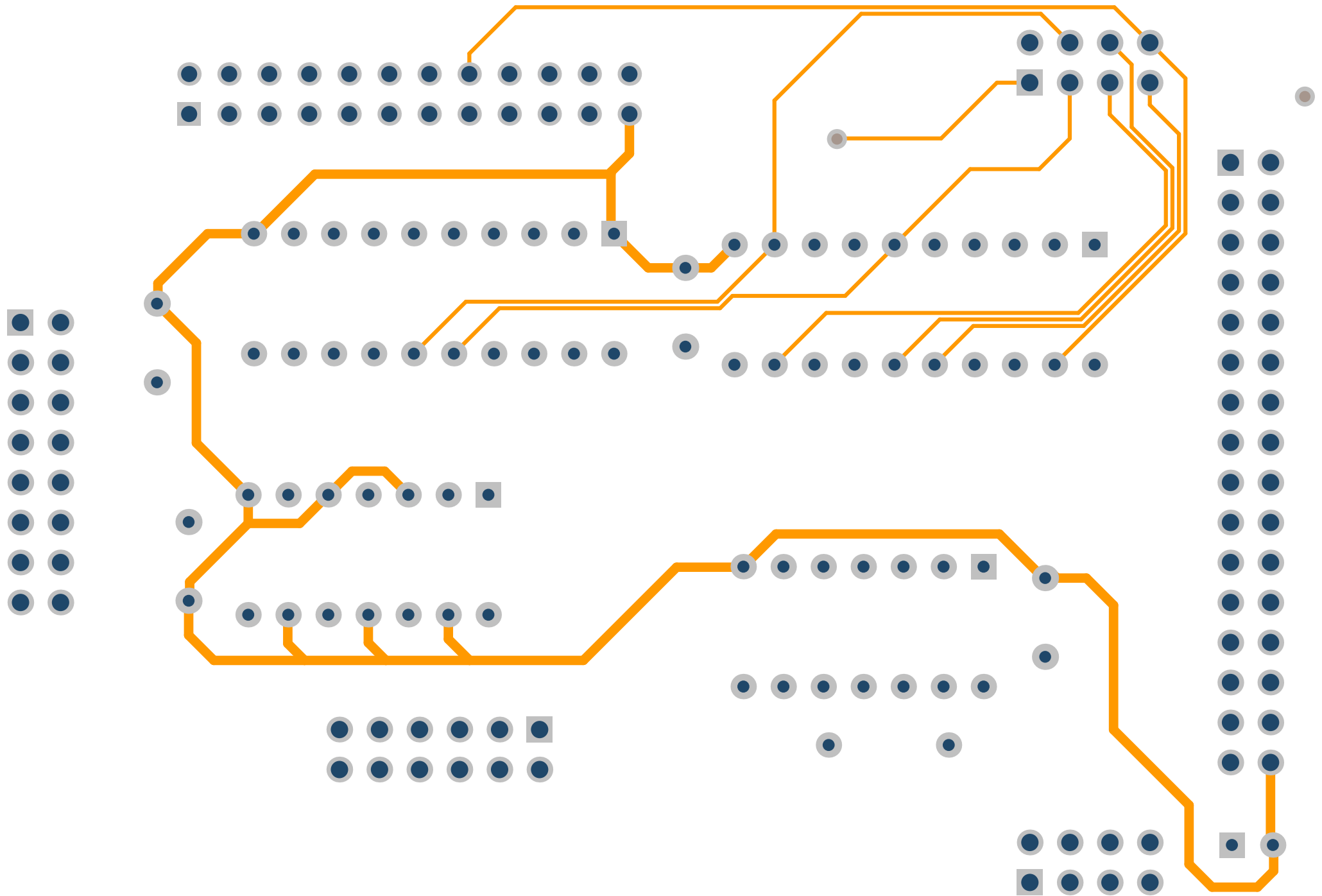


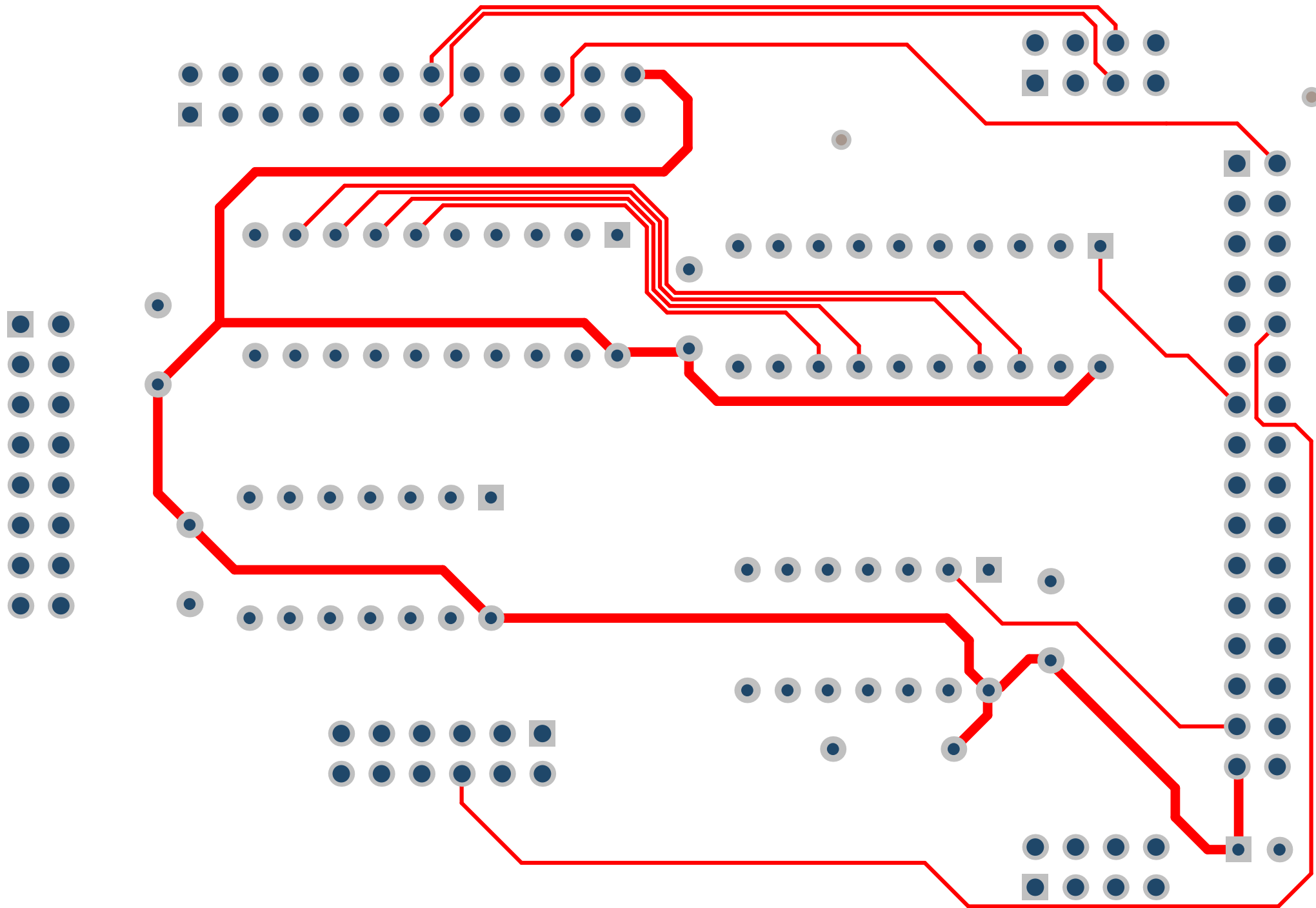
Decoupling Capacitors

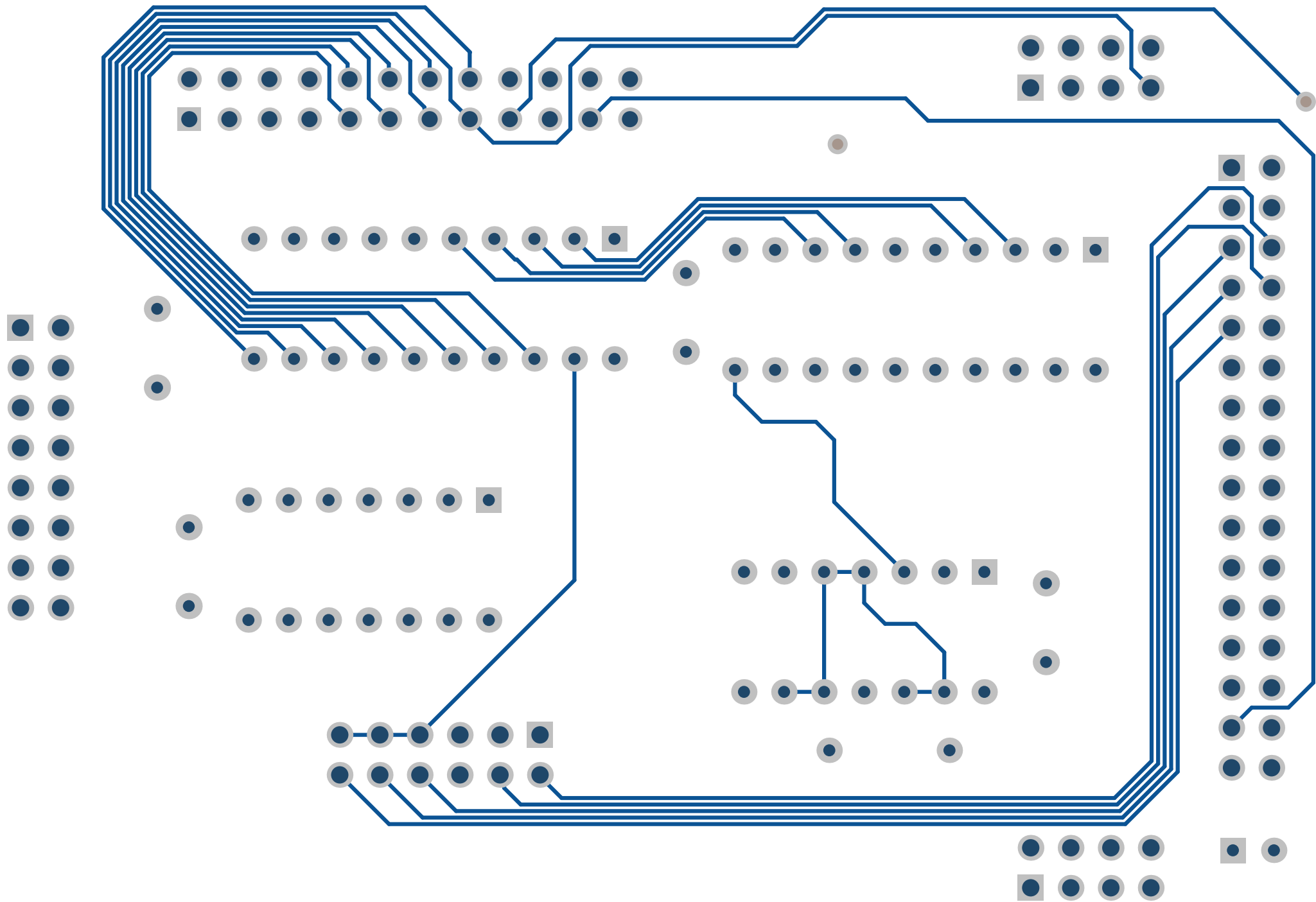
Write LOGIC













Bill of Materials

myCPU Register 8b-R (273)

Description	Value	Q
Electrolytic capacitor 16v/50v	10μF	1
Ceramic or tantalum capacitor	100nF	4
Non inverting bus transceiver	74xx245	1
8-bit D-Type Register with 3 state outputs	74xx273	1
Quad 2-input AND gates	74xx08	1
Hex inverters	74xx04	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 12p	12p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p	1
Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 24p	24p	1
Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p	2
Resistor Axial	4.7K	1



Assembly List

myCPU Register 8b-R (273)

Designator	Description	Value
C1	Electrolytic capacitor 16v/50v	10 μ F
C3	Ceramic or tantalum capacitor	100nF
C4	Ceramic or tantalum capacitor	100nF
C5	Ceramic or tantalum capacitor	100nF
C6	Ceramic or tantalum capacitor	100nF
IC1	Non inverting bus transceiver	74xx245
IC2	8-bit D-Type Register with 3 state outputs	74xx273
IC3	Quad 2-input AND gates	74xx08
IC4	Hex inverters	74xx04
JP1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 12p	12p
P1	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 16p	16p
P2	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 32p	32p
P3	Socket Header, THT, pitch 2.54mm, Dual Row, Vertical, 24p	24p
P4	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p
P5	Pin Header, THT, pitch 2.54mm, Dual Row, Vertical, 8p	8p
R1	Resistor Axial	4.7K