**[Design of B register and output register](https://www.youtube.com/watch?v=WmYglyEPKCw&list=PLk4sSigu0N0W4v755N_O6Jk1WWrfWIGgm&index=8) :** B register and output register are same but conducting in different T-states. B register either take input data from bus and send to ALU.

A computer circuit board with many different sizes and numbers

Description automatically generated with medium confidence

Each sub circuit is 1 bit register made using a D-flip flop. A tri-state buffer before the D-flip flop control the data flow in the flip flops.

A diagram of a computer

Description automatically generated

In output register, input in OI pin is coming from the control sequencer.This Oi pin controls the data entering to the output register as well as to a converter connected to its output.

A diagram of a computer program

Description automatically generated with medium confidence