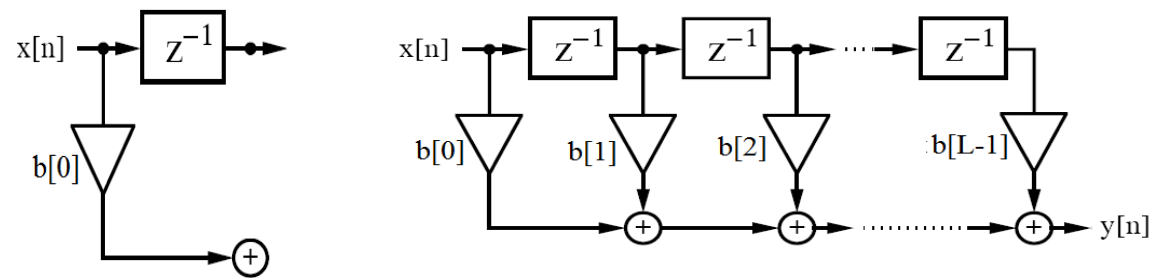


The finite impulse response (FIR) filter is common component in many digital signal processing (DSP) systems. This implementation shows the basic FIR filter diagram with L length. The result of delays operates on input samples.

Block Diagram:

For each integer n , the output is the values in the delay line scaled by $b[0]$, $b[1]$, ..., $b(L-1)$.



Process Map:

The FIR Filter implemented using three digital hardware elements including a Latch, a Multiplier and an Adder. The latch updates (Y) output using the value of the input (X).

