

1 High-Level Synthesis in FPGA, Pat 2 – Sequential Circuits

A digital circuit controller defines the sequence and flow of tasks or steps in a digital system.

A digital system generally consists of two steps: Datapath and Controller.

The datapath models the flow of data from input to output. The data may pass several processing steps before it becomes the output.

The controller defines the activates of these processing steps and the flow of data in the datapath.