

state machine.

to a controller

controller's FSM

Derive the

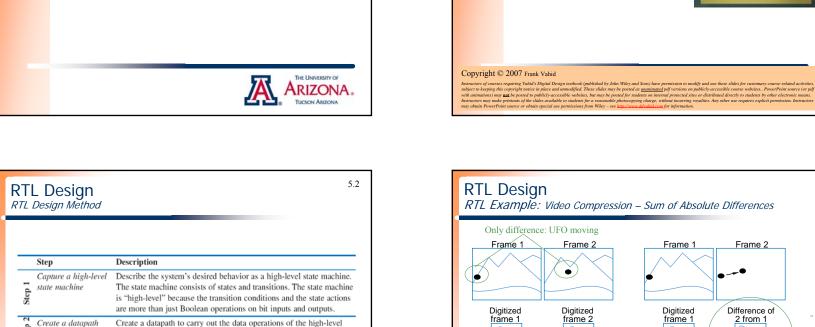
Connect the datapath Connect the datapath to a controller block. Connect external Boolean

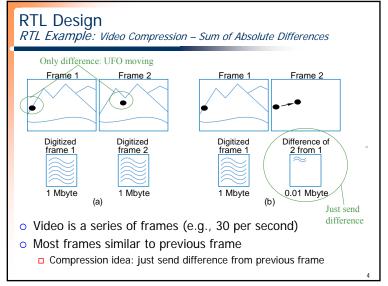
Convert the high-level state machine to a finite-state machine (FSM)

for the controller, by replacing data operations with setting and reading

inputs and outputs to the controller block.

of control signals to and from the datapath.





Digital Design

Chapter 5:

RTL Design

Slides to accompany the textbook Digital Design, First Edition, by Frank Vahid, John Wiley and Sons Publishers, 2007. http://www.ddvahid.com

