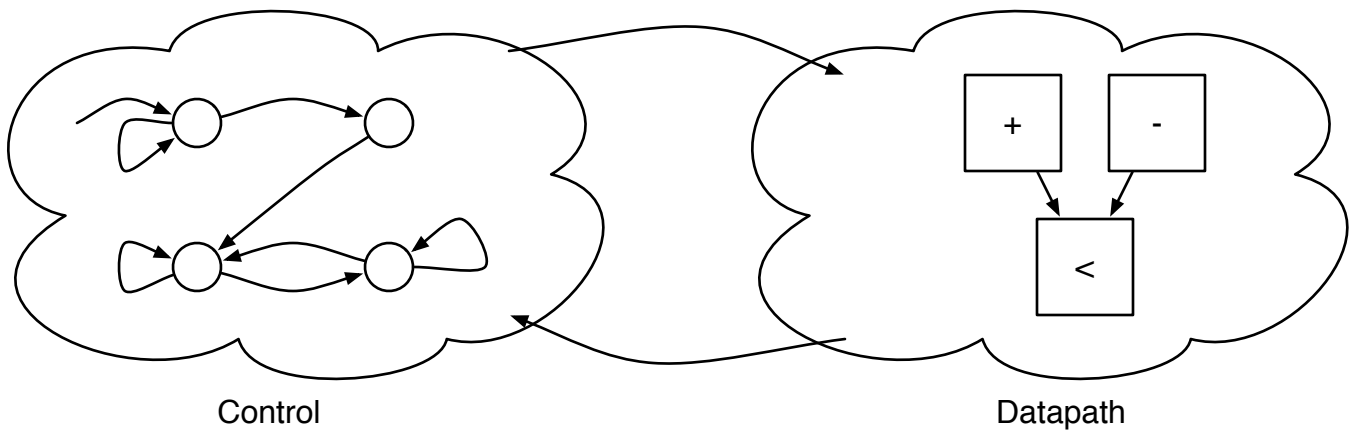


The challenge: perform 32-bit addition/subtraction with only a 16-bit adder/subtractor, a finite state machine, and some registers.

The design approach we will use to solve this problem: "control/datapath design"



low part

high part



A	B	add/sub
cOut	+/-	cln
Sum/Diff		

Challenge 2: Perform multiplication of two 8-bit numbers, with a 16-bit output, with only a 16-bit adder, shift registers and a FSM.

