More on datapath







CLK

Go

X

Y

Z

Bob

RA

RB

RS







# Another example: laser distance sensor.



* Laser light travels at speed of light, 3\*108 m/sec
* Distance is thus D = T sec \* 3\*108 m/sec / 2
* Inputs/outputs
	+ ***B***: bit input, from button to begin measurement
	+ ***L***: bit output, activates laser
	+ ***S***: bit input, senses laser reflection
	+ ***D***: 16-bit output, displays computed distance