

## Quiz #3

LabVIEW

Dr. Pogo

Assignment is due in class on Thursday, September 25, 2008

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### Quiz #3: Arrays, Clusters, Shift Registers, Case Structures, Graphs

<b>Inputs:</b>	One “serve” button. One “stop” button. One slider to control the paddle speed
<b>Outputs:</b>	One x-y graph One “in play” indicator. A numeric “hit streak” counter.
<b>Operation:</b>	Run once
<b>Hardware:</b>	One USB-6008 DAQ

You may start with the template provided on the course homepage.

- Restore the deleted elements needed to make the program work.
- Add a switch to the front panel. When the switch is “off”, the user adjusts the front panel slider shown. When the switch is “on”, the user instead adjusts the voltage on a power supply. The functionality must be the same as with the slider. In other words, your program must create the following integer:  
 $1.0 < V < 1.1 \rightarrow -2$   
 $1.1 < V < 1.2 \rightarrow -1$   
 $1.2 < V < 1.3 \rightarrow 0$   
 $1.3 < V < 1.4 \rightarrow +1$   
 $1.4 < V < 1.5 \rightarrow +2$

