

Pre-Lab 7

Please build the following VI prior to this lab:

1. Write_DigOut.vi

- Launch *LabVIEW* and build the VI shown in Figure 1. Each of the four buttons on the front panel is a **Push Button** that turns bright green when the button is pressed ON and turns dark green when the button is pressed OFF. To display the Boolean ON (or OFF) text values for each square light, right-click on the square light and select **Show>Boolean Text**. You can move the Boolean ON (or OFF) text values using the *Positioning* tool. To combine the four Push Buttons into one element, use the **Array** control. In the Block Diagram, use a cluster **Unbundle** function to get the status from the error wire.

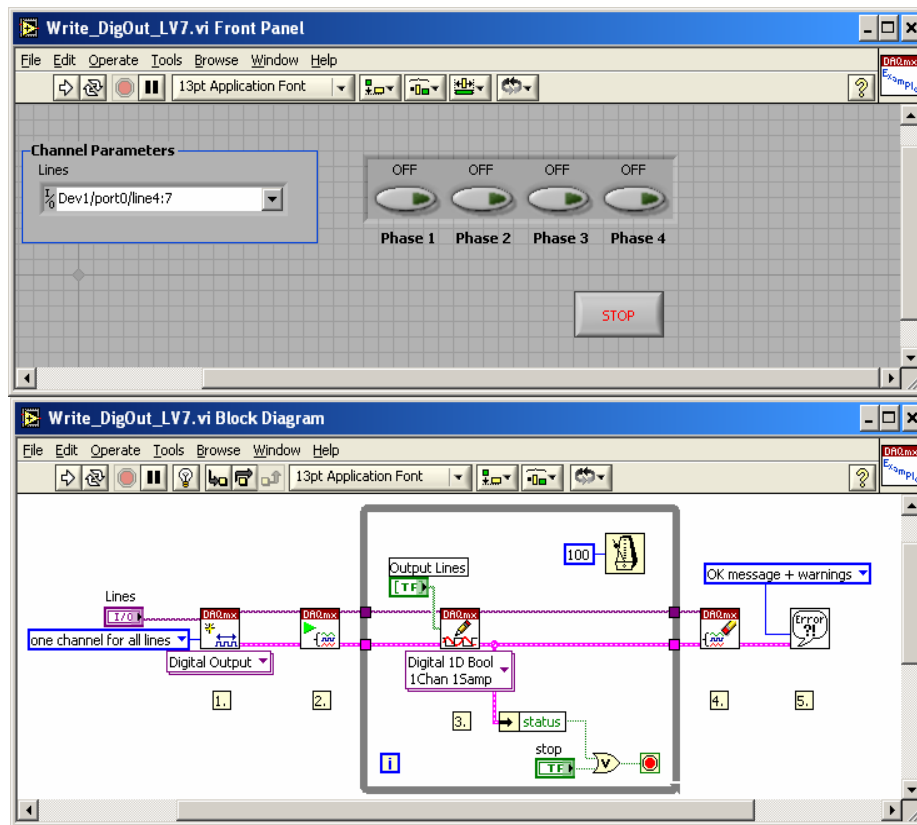


Figure 1. This VI generates four digital output signals that is used to provide the stepping sequence for a four-phase unipolar stepper motor.

- Save this VI as `Write_DigOut.vi`.

