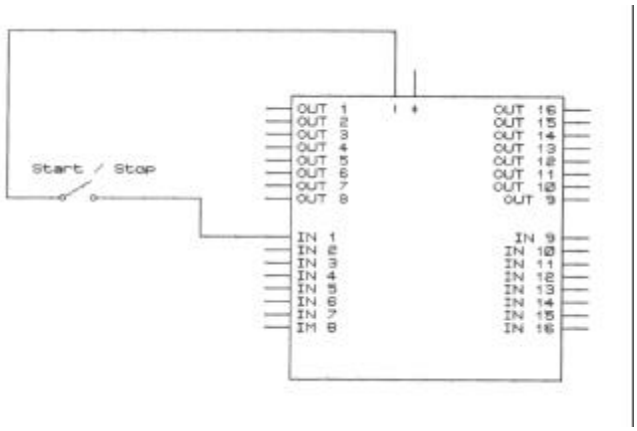
Chasing Lights

Description

This is a simple set of applications which are intended to show how to set up a sequence of flashing LEDs. All the sequenses are controlled by a single input (1).

In the “8 chasing Lights” project one LED is illuminated at a time with LED 2 following LED 1, LED 3 following LED 2 and so on. In all 8 LEDs are used. The “16 chasing Lights” is similar but in this case all 16 real outputs are used to drive 16 LEDs. The “2 of 16 chasing Lights” again uses 16 LEDs but this time two LEDs are on at the same time.

Wiring Diagram



Notes

The code for this application works by setting increasing recognition time for each output but maintaining the same on and off times.

In some of the listings you will notice that a a comment “<Delay” has been added. This is because the command “UAL” takes slightly longer than other commands and the comment give the VIOM time to process the command before the next line arrives.

Improvements

Using similar techniques all sorts of paterns can be generated. timings can be changed to make the leds flash at different rates. You could control the speed of the display by using one of the universal commands to change flash rates etc.

If you need to drive longer chains of LEDs, you could do this by doubling up LEDs on outputs. In this way the pattern will repeat but the effect would be more extensive.