DINJ OPERATING INSTRUCTIONS

DINJ – Direction Injection by John Twomey.

What is it?
This came about after numerous posts on the Parallax™ Forums website and a number of PM's received as a result. It is an application written in VB6 whereby it runs in the background and waits for a specific Com Port input - allowable inputs are

- L, l, <Left arrow> - (3 options for left) which will inject a 'Left Arrow' keyboard scan code into the keyboard buffer.

- R, r, <Right Arrow> - (3 options for Right) which will inject a 'Right Arrow' keyboard scan code into the keyboard buffer.

- U, u, <Up Arrow> - (3 options for Up) which will inject an 'Up Arrow' keyboard scan code into the keyboard buffer.

- D, d, <Down Arrow> - (3 options for Down) which will inject a 'Down Arrow' keyboard scan code into the keyboard buffer.

These will, as with a keyboard, only influence a highlighted application.

How do I use it?
To Test:
Unzip the 'Dinj.zip' file and place 'dinj.exe' and 'Dinj.ini' in the same path (folder)
Run 'Dinj.exe' – you will see an application window (fig.1) .

Fig. 1

Send some information to this com port e.g. 'L' – when the application receives this information it should display the directional information in the top text box. As shown in fig.2

Fig.2

  Once you can see that the application has received and displayed the information as shown in fig. 2 you know that it is working.

Recommended Normal Use
Shutdown the application and change the ini file [Visible] entry from 'True' to 'False' and adjust the com port settings to your requirements – Default is Com:1, 9000,N,8,1.
Save and Close the ini file. Restart the application – you will now notice that the main window does not appear but an icon is visible in the toolbar at the bottom of the screen.
    Start the application you want to 'influence' and ensure it is highlighted / active.Send the data to the serial port and hey presto !

Basic Stamp Example for Right:
SEROUT 0,16468,["R"]

\-   sends R via PIN0 at 9600,N,8,1 to the P.C running the Application

Propeller Example for Right:

CON
_clkmode = xtal1 + pll16x
_xinfreq = 5_000_000

OBJ
ExtSerial : "FullDuplexSerial

Pub SENDR
extserial.start(-1, 0, 2, 9600) ' (transmit only)- rxpin,txpin,mode,Baud - depends on your set up
extserial.str(string("R "))

Background Mode (important note)
When [Visible] entry is set to 'False' in the ini file the application can only be shutdown by task manager.

Other Test Method
Start this application as described earlier on 1 p.c. then start 'Hyperterminal' on another p.c. (9600,n,8,1 and Flow Control: None). Link both P.C.'s with a null modem cable i.e. pin 2 to pin3, Pin 3 to Pin2 and Pin 5 to Pin 5 (connections either end of the cable).

When L, l, <Left Arrow> are pressed on hyperterminal these are injected into the keyboard buffer on the other p.c. (running this application) as if typed on that p.c.

Regards,
        John Twomey

        Feel free to post your findings /Comments.

Enjoy !