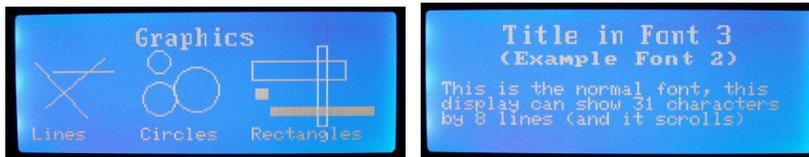


Contents of this Zip File

Script Files

There are two script files 'graphics.txt' and 'fonts.txt' These can be sent to the display and the display will respond by displaying the following two screens:



The ideal program for doing this would be BV-Com, this can be downloaded from here: http://www.asi.byvac.com/ar_serial.php

The VB-Demo Program

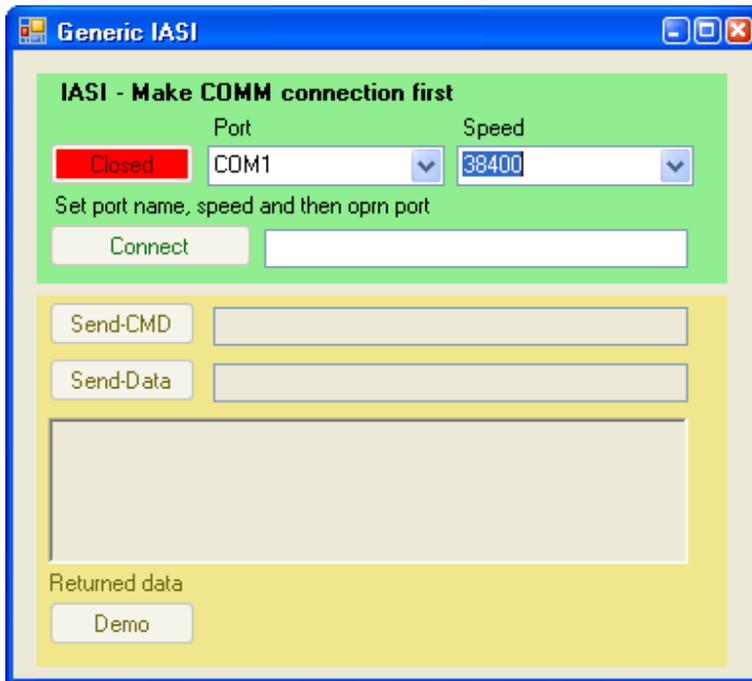
This is an example of connecting to a ByVac 'Dual' type device, specifically this is for the BV4613 182x64 LCD Graphic Display controller.

The program was created with Microsoft Visual Basic 2005 Express Edition and so this will probably need to be installed for it to work, it will certainly need to be installed (or a later version) to be able to modify the code.

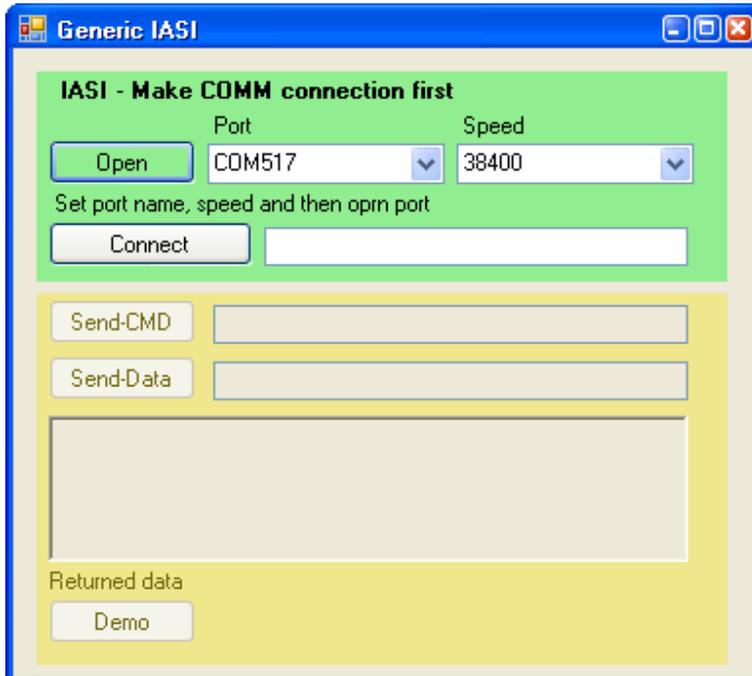
1) Connect the display with a BV101 or suitable COM port adapter, the picture shows how the BV101 mates directly with the display:



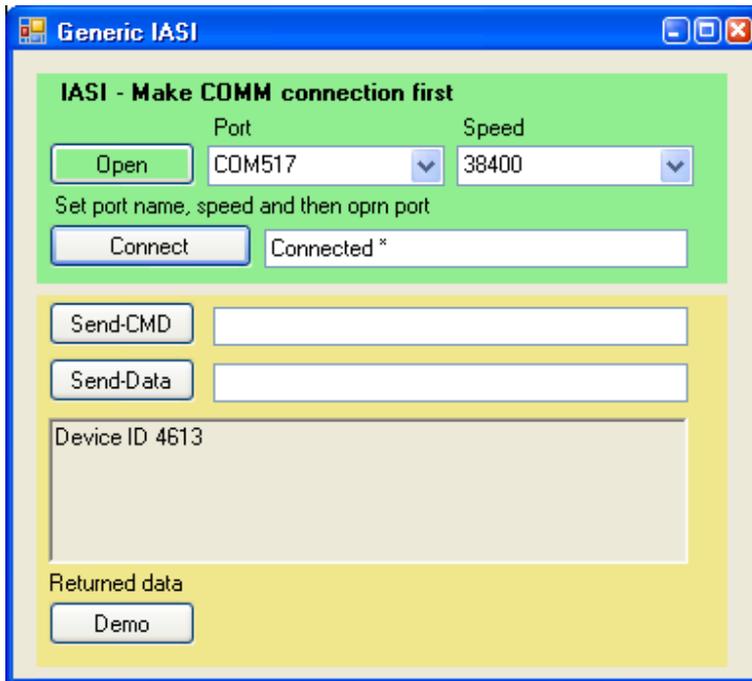
2) To run the demo find 'Dual.exe' which is in the bin/debug directory, Double click and this will be produced:



2) Select the appropriate com port and press the red closed button



3) If the correct COM port has been selected, i.e. one that exists and is not already in use then the red button will turn green. This means that the PC is now connected to the COM port.



4) Press the 'Connect' button, this will reset the display (the reset line must be connected for this, if not the display should still work but will need disconnecting and then connecting up again each time connect is used.)

After a pause the screen should look like the one above, pressing the demo button will run a short demo program.

How the Display Initialises

The display has been designed to run in an 'automatic' environment and so there are some useful features that the host software can utilise. This is demonstrated in the VB 'Connect' function, reproduced here:

```
Public Function Connect ()
    Dim rv = 0
    With Form1
        ' reset device first, assumes that a BV10x is connected
        ' the DTR line connected to the Dual reset line
        .port1.DtrEnable = True
        .port1.DtrEnable = False
        wait (50)

        ' send CR to initialise device
        .textIn = "" ' clear buffer
        .port1.Write (Chr (13))
        wait (50) ' needs a bit longer for initialisation

        ' get initialisation char
```

```

        If GetAck("", "*") = 1 Then ' set up ACK mechanism
            .port1.Write(Chr(27))
            .port1.Write("[62E") ' 62 is '>'
            .txtNon.Text = "Connected " + .textIn
            wait(20)
            .editHelp.Text = "Device ID " + Getvalue(Chr(27) +
" [?31d")
            rv = 1
        End If
    '
End With
Connect = rv
End Function

```

When using a BV101, the DTR line is connected to the hardware reset on the BV4613 controller. Taking this line low (TRUE) and back to high again will reset the display to a known condition.

The first “.port1.Write(Chr(13))” will send 13 to the display and the display will respond with ‘*’. If this is received the display is set up for using the ACK method of handshaking (see the data sheet). The device ID is obtained and placed in the memo box. This is only one method of initialising the display, other methods would include a software reset (<esc>c) and setting the display to use a fixed baud rate in which case very little initialisation would be needed.