

ServoCenter3.1 Direct Serial I/O Examples – Visual Basic 6.0

1. Overview

This document provides a simple Visual Basic example program illustrating how to access the serial port and directly communicate with the ServoCenter 3.1 controller board to control a servo. Note that the program is provided to illustrate simple raw serial communication using the ServoCenter 3.1 protocol and does not demonstrate the full feature set of the ServoCenter 3.1 controller. Refer to section 4.1 of the ServoCenter 3.1 manual for a description of the entire ServoCenter 3.1 protocol and feature set.

2. Sample Code

```
Private Sub Form_Load()  
    MSComm1.PortOpen = True  
    MSComm1.Output = Chr$(&HF0 + 0) & Chr$(16) & Chr$(0) & Chr$(100) & Chr$(  
    100) & Chr$(0) 'initialize servos to pos:100  
End Sub  
  
Private Sub Form_Unload(Cancel As Integer)  
    MSComm1.PortOpen = False  
End Sub  
  
Private Sub VScroll1_Scroll(Index As Integer)  
    MSComm1.Output = Chr$(&HF0 + 0) & Chr$(16) & Chr$(Index) & Chr$(VScroll1  
    (Index).Value) & Chr$(100) & Chr$(0) 'output command packet via serial  
    control  
    ' (header + board id)^      (command)^      (servonum)^      (position)^  
    (speed)^ (checksum)^  
End Sub
```

3. Additional Information

This code is available in the DirectSerial.vbp file in the Examples directory of the ServoCenter3.1 CD or online at www.YostEngineering.com/ServoCenter.