

Public Class Form1

Inherits System.Windows.Forms.Form

'フォームがコンポーネントの一覧をクリーンアップするために dispose をオーバーライドします。

<System.Diagnostics.DebuggerNonUserCode(> _

Protected Overrides Sub Dispose(ByVal disposing As Boolean)

Try

If disposing AndAlso components IsNot Nothing Then
components.Dispose()

End If

Finally

MyBase.Dispose(disposing)

End Try

End Sub

'Windows フォーム デザイナが必要です。

Private components As System.ComponentModel.IContainer

Private Sub InitializeComponent()

Me.ListBox1 = New System.Windows.Forms.ListBox

Me.SuspendLayout()

,

'ListBox1

,

Me.ListBox1.Dock = System.Windows.Forms.DockStyle.Fill

Me.ListBox1.FormattingEnabled = True

Me.ListBox1.ItemHeight = 12

Me.ListBox1.Location = New System.Drawing.Point(0, 0)

Me.ListBox1.Name = "ListBox1"

Me.ListBox1.Size = New System.Drawing.Size(292, 256)

Me.ListBox1.TabIndex = 0

,

'Form1

,

Me.AutoScaleDimensions = New System.Drawing.SizeF(6.0!, 12.0!)

Me.AutoScaleMode = System.Windows.Forms.AutoScaleMode.Font

Me.ClientSize = New System.Drawing.Size(292, 266)

Me.Controls.Add(Me.ListBox1)

Me.Name = "Form1"

Me.Text = "Form1"

Me.ResumeLayout(False)

End Sub

Friend WithEvents ListBox1 As System.Windows.Forms.ListBox

Private WithEvents Com1 As System.IO.Ports.SerialPort

Private byteBuffers() As Byte

Private MeasurementValue As String = ""

Private receiveState As Boolean = True

Public Sub New()

' この呼び出しは、Windows フォーム デザイナが必要です。

InitializeComponent()

' InitializeComponent() 呼び出しの後で初期化を追加します。

InitializeIT007R("COM1") ' 接続するシリアルポートを指定

End Sub

' シリアルポートの初期設定

Private Sub InitializeIT007R(ByVal tgtPortname As String)

If Com1 Is Nothing Then

' ここで tgtPortname が有効なシリアルポート名であることを検証すること

' このサンプルでは省略

Com1 = New System.IO.Ports.SerialPort(tgtPortname)

Com1.BaudRate = 2400 ' ボーレートは 2400bps

Com1.DataBits = 8 ' データビットは 8 ビット

Com1.StopBits = 1 ' ストップビットは 1 ビット

Com1.Parity = System.IO.Ports.Parity.None ' パリティ無し

Com1.DiscardNull = False

Com1.Encoding = System.Text.Encoding.ASCII

byteBuffers = Nothing

End If

End Sub

' フォームのロードイベント

Private Sub Form1_Load(ByVal sender As System.Object, ByVal e As System.EventArgs) Handles MyBase.Load

If Com1 Is Nothing Then Return

If Com1.IsOpen Then Return

Try

Com1.Open()

Catch ex As Exception

Console.Write(ex.Message)

Return

End Try

Com1.DtrEnable = True

Com1.RtsEnable = True

Com1.DiscardInBuffer()

Com1.DiscardOutBuffer()

byteBuffers = Nothing

recieveState = True

End Sub

' フォームのクローズイベント

Private Sub Form1_FormClosed(ByVal sender As System.Object, ByVal e As System.Windows.Forms.FormClosedEventArgs) Handles MyBase.FormClosed

If Com1 IsNot Nothing Then

Com1.DtrEnable = False

Com1.RtsEnable = False

If Com1.IsOpen Then Com1.Close()

Com1.Dispose()

End If

End Sub

' シリアルポート受信イベント

```
Private Sub OnCom1DataRecieved(ByVal sender As Object, ByVal e As System.IO.Ports.SerialDataReceivedEventArgs) Handles  
Com1.DataReceived
```

```
    Dim workByte As Byte
```

```
    Do While (Com1.BytesToRead > 0)
```

```
        workByte = Com1.ReadByte
```

```
        If workByte = 13 Then
```

```
            If byteBuffers.Length > 0 Then
```

```
                Dim workEncoding As System.Text.Encoding = System.Text.Encoding.Default
```

```
                MeasurementValue = workEncoding.GetString(byteBuffers, 0, byteBuffers.Length)
```

```
                byteBuffers = Nothing
```

```
                Me.Invoke(New MethodInvoker(AddressOf ListBox1ItemAdd))
```

```
            End If
```

```
            recieveState = True
```

```
        ElseIf workByte <> 10 Then
```

```
            If recieveState Then
```

```
                ReDim byteBuffers(0)
```

```
                byteBuffers(0) = workByte
```

```
                recieveState = False
```

```
            Else
```

```
                ReDim Preserve byteBuffers(byteBuffers.Length)
```

```
                byteBuffers(byteBuffers.Length - 1) = workByte
```

```
            End If
```

```
        End If
```

```
    Loop
```

```
End Sub
```

```
Private Sub ListBox1ItemAdd()
```

```
    Me.ListBox1.Items.Add(MeasurementValue)
```

```
    Me.ListBox1.SelectedIndex = Me.ListBox1.Items.Count - 1
```

```
End Sub
```

```
End Class
```