

### Can I add groups and switch columns between groups at runtime?

Reference: **DAT1125**

Yes. Use the **Add** method on groups and set the **Group** property of columns.

The following code sample demonstrates how to add three new groups to the DataGrid and then add two columns in the grid to these groups. The same code can be used for both the DataCombo and the DataDropdown.

```
Private Sub Command1_Click()  
  
    For i = 0 To 3  
        SSDBGrid1.Groups.Add i  
    Next i  
    ' Set the groups  
    SSDBGrid1.Columns(1).Group = 2  
    SSDBGrid1.Columns(2).Group = 2  
  
End Sub
```



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- How can I programmatically select a row?

**How can I check if the current row in the grid is selected or deselected?**

Reference: **DAT1204**

*The following code determines the selection state of the current row.*

```
Dim Selected as boolean

For i = 0 to SSDBGrid1.Selbookmarks.count -1
    If CStr(SSDBGrid1.Bookmark) = CStr(SSDBGrid1.SelBookmarks(i) then
        msgbox "Row is Selected"
        Selected = true
    End if
Next
If Selected = False then
    msgbox "Row is Not Selected"
End If
```

**How can I compare the LastRow parameter in the RowColChange event with the current bookmark for the DataGrid?**

Reference: **DAT1136**

*Use the following procedure:*

```
Private Sub SSDBGrid1_RowColChange(ByVal LastRow As Variant, ByVal LastCol  
As Integer)
```

```
    Dim bm As String  
    bm = CStr(SSDBGrid1.Bookmark)  
    If bm <> CStr(LastRow) Then  
        Form1.Print "new row"  
    Else  
        Form1.Print "same row"  
    End If
```

```
End Sub
```

**How can I copy text from cell to cell in an AddItem grid using the mouse without overwriting any existing text?**

Reference: **DAT1223**

*Use the following in an AddItem grid with 3 columns and FieldSeparator of comma:*

```
(General) (declarations)

Dim tempstr$

Private Sub SSDBGrid1_InitColumnProps()

    For i = 0 To 20
        SSDBGrid1.AddItem "Data Widgets," & i
    Next i

End Sub

Private Sub SSDBGrid1_DragDrop(Source As Control, X As Single, Y As Single)

    Dim dropcol%

    dropcol = SSDBGrid1.ColContaining(X)
    If SSDBGrid1.Columns(dropcol).Text <> "" Then
        MsgBox ("something here: Cancel")
    Else
        SSDBGrid1.Bookmark = SSDBGrid1.RowContaining(Y)
        SSDBGrid1.Columns(dropcol).Text = tempstr
        SSDBGrid1.Update
    End If

End Sub

Private Sub SSDBGrid1_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)

    If Button = 2 Then ' Right mouse button clicked
        SSDBGrid1.DragIcon = LoadPicture("c:\vb4\icons\arrows\point04.ico")
        SSDBGrid1.Drag 1 ' Set drag action to drag
        SSDBGrid1.Bookmark =
SSDBGrid1.AddItemBookmark(SSDBGrid1.RowContaining(Y)) ' Set the bookmark
of the row
        tempstr = SSDBGrid1.Columns(SSDBGrid1.ColContaining(X)).CellText(bm)
    End If

End Sub
```



## How can I copy the contents of a bound DataGrid to an AddItem DataGrid?

Reference: **DAT1165**

*The following procedure copies the entire contents of a data-bound grid to an AddItem grid.*

Place a bound SSDBGrid on a form. Place a second SSDBGrid on a form and set the following properties:

**DataMode** = 2 - AddItem

Place a command button on the form and put the following code in the **Click** event. This code copies the grid data to the clipboard:

```
Private Sub Command1_Click()

    Dim bm As Variant
    Dim datastr As String

    MousePointer = 11

    For i = 0 To SSDBGrid1.Columns.Count - 1
        SSDBGrid2.Columns.Add i
        SSDBGrid2.Columns(i).Caption = SSDBGrid1.Columns(i).Caption
    Next i

    For X = 0 To SSDBGrid1.Rows - 1
        bm = SSDBGrid1.GetBookmark(X)
        datastr = ""
        For i = 0 To SSDBGrid1.Columns.Count - 1
            datastr = datastr & SSDBGrid1.Columns(i).CellText(bm)
            If i < SSDBGrid1.Columns.Count - 1 Then
                datastr = datastr & vbTab
            End If
        Next i
        SSDBGrid2.AddItem datastr
    Next X

    MousePointer = 0

End Sub
```

## How can I create a DataCombo that acts as a "Quicken™" Combo box?

Reference: **DAT1218**

A "Quicken" combo fills in the edit portion based on the letters the user types. For example, if the user types "A" the combo fills in the text of the first value that begins with the letter A. When they type the second letter, the combo fills in the text of the first value that begins with the two letters typed. For example, if the combo were attached to a list of foods, typing A might fill the edit portion of the combo with the word "apple." If the user then typed the letter "V" the combo would be filled with "avocado."

*Use the following procedure to emulate a "Quicken" combo box:*

```
(General) (declarations)

Private ComboSelstart As Integer

Private Sub SSDBCombo1_Click()

    ComboSelstart = 0

End Sub

Private Sub SSDBCombo1_KeyUp(KeyCode As Integer, Shift As Integer)

    If KeyCode >= 65 And KeyCode <= 90 Then
        Data1.Recordset.FindFirst "author like '" & SSDBCombo1.Text & "*'"
        If Not Data1.Recordset.NoMatch Then
            ComboSelstart = ComboSelstart + 1
            SSDBCombo1.Text = Data1.Recordset("author")
            SSDBCombo1.SelStart = ComboSelstart
            SSDBCombo1.SelLength = Len(SSDBCombo1.Text) - ComboSelstart
        Else
            ComboSelstart = 0
            SSDBCombo1.SelStart = ComboSelstart
            SSDBCombo1.SelLength = Len(SSDBCombo1.Text)
        End If
    End If

End Sub

Private Sub SSDBCombo1_LostFocus()

    If SSDBCombo1.IsItemInList = False then
        MsgBox "Item not in list"
        ComboSelstart = 0
    End If

End Sub
```

For a dropdown in column 1 of a grid, change **KeyUp** event to look like this....

```
Private Sub SSDBGrid1_KeyUp(KeyCode As Integer, Shift As Integer)

    If KeyCode >= 65 And KeyCode <= 90 And SSDBGrid1.Col = 1 Then
        Data1.Recordset.FindFirst "author like '" & SSDBGrid1.Columns(1).Text &
        "*" &
```

```
    If Not Data1.Recordset.NoMatch Then
        ComboSelstart = ComboSelstart + 1
        SSDBGrid1.Columns(1).Text = Data1.Recordset("author")
        SSDBGrid1.ActiveCell.SelStart = ComboSelstart
        SSDBGrid1.ActiveCell.SelLength = Len(SSDBGrid1.Columns(1).Text) -
ComboSelstart
    Else
        ComboSelstart = 0
        SSDBGrid1.ActiveCell.SelStart = ComboSelstart
        SSDBGrid1.ActiveCell.SelLength = Len(SSDBGrid1.Columns(1).Text)
    End If
End If

End Sub
```

### How can I determine if I am loading an EvenRow or an OddRow in the Bound SSDBGrid?

Reference: **DAT1183**

*Use the following code to determine the type of row being loaded.*

First, add this statement to the (General) (declarations) section of the form containing the grid:

```
Dim rs as dynaset
```

Then enter the following event code:

```
Private Sub SSDBGrid1_InitColumnProps()  
  
    Set rs = Data1.Recordset.Clone  
    SSDBGrid1.Columns.Add 0  
    SSDBGrid1.Columns(0).Caption = "Record Number"  
  
End Sub  
  
Private Sub SSDBGrid1_RowLoaded(ByVal Bookmark As Variant)  
  
    rs.Bookmark = Bookmark  
  
    If rs.AbsolutePosition Mod 2 = 0 Then  
        Debug.Print "evenrow"  
    Else  
        Debug.Print "oddrow"  
    End If  
  
End Sub
```

## How can I drag an entire row from one AddItem DataGrid to another AddItem DataGrid?

Reference: **DAT1211**

*The following procedure shows how to drag a selected row from one grid to another:*

First, place two SSDBGrid's on a form - both in AddItem mode with **AllowAddNew** set to True. Then specify the following code for the events of each grid:

```
Private Sub SSDBGrid1_InitColumnProps()  
  
    For i = 0 To 20  
        SSDBGrid1.AddItem "Data Widgets," & i  
    Next i  
  
End Sub  
  
Public Sub SSDBGrid1_MouseDown(Button As Integer, Shift As Integer, X As Single, Y As Single)  
  
    Dim bm As Variant  
  
    If Button = 2 and SSDBGrid1.Whereis(X,Y) = ssWhereIsData Then ' Right mouse button clicked  
        ' Use the following line to specify a custom drag icon (optional)  
        SSDBGrid1.DragIcon = LoadPicture("d:\vb4\icons\dragdrop\drag1pg.ico")  
  
        SSDBGrid1.Drag 1 ' Set drag action to drag  
        bm = SSDBGrid1.AddItemBookmark(SSDBGrid1.RowContaining(Y)) ' Get the bookmark of the row  
        SSDBGrid1.Bookmark = bm ' Set the current bookmark to the row  
    End If  
  
End Sub  
  
Private Sub SSDBGrid2_DragDrop(Source As Control, X As Single, Y As Single)  
  
    SSDBGrid2.AddItem ""  
    For i = 0 To SSDBGrid1.Columns.Count - 1  
        SSDBGrid2.Columns(i).Text =  
SSDBGrid1.Columns(i).CellText(SSDBGrid1.Bookmark) ' Copy Grid1 contents to Grid2  
    Next i  
  
    SSDBGrid2.Update  
    SSDBGrid2.MoveNext  
    SSDBGrid1.Drag 2 ' Drag action stopped  
  
End Sub
```

**How can I format a cell within the DataGrid for a ZIP Code without using the NumberFormat property of the column object?**

Reference: **DAT1173**

*Use this two step procedure to perform the formatting:*

1. Set the Column object's **FieldLen** property to 9 in the **InitColumnProps** event of the DataGrid:

```
Private Sub SSDBGrid1_InitColumnProps()  
    SSDBGrid1.Columns(n).FieldLen = 9  
  
End Sub
```

2. Parse the text of the column into ZIP code format.

```
Private Sub SSDBGrid1_AfterColUpdate(ByVal ColIndex As Integer)  
  
    Dim TextLen As Integer  
    Dim strg As String  
  
    strg = SSDBGrid1.Columns(ColIndex).Text  
    TextLen = Len(strg)  
    If TextLen = 5 Then  
        SSDBGrid1.Columns(ColIndex).Text = Left$(strg, 5) & " "  
    ElseIf TextLen > 5 Then  
        SSDBGrid1.Columns(ColIndex).Text = Left$(strg, 5) & "-" & Right$(strg,  
TextLen - 5)  
    End If  
  
End Sub
```

**How can I limit the number of characters typed in a cell in a DataGrid and accept only numeric values as a valid entry?**

Reference: **DAT1179**

*The following code allows only numeric keystrokes (or backspaces) and limits the length of the value entered to six digits:*

Put the following code in the DataGrid's **KeyPress** event:

```
If SSDBGrid1.Col = 0 Then

    If Len(SSDBGrid1.Columns(0).Text) > 5 And KeyAscii <> 8 Then
        KeyAscii = 0
        Beep
    Else
        If (KeyAscii < 48 Or KeyAscii > 57) And KeyAscii <> 8 Then
            KeyAscii = 0
            Beep
        End If
    End If

End If
```

### How can I lock a cell in a bound DataGrid?

Reference: **DAT1138**

Use the **RowColChange** event, as outlined in the following procedure:

The following will lock the cell in row 5, column 1:

```
Private Sub SSDBGrid1_RowColChange(ByVal LastRow As Variant, ByVal LastCol
As Integer)

    If SSDBGrid1.Col = 1 And Data1.Recordset.AbsolutePosition = 5 Then
        SSDBGrid1.Columns(1).Locked = True
    Else
        SSDBGrid1.Columns(1).Locked = False
    End If

End Sub
```



**How can I loop through the SelBookmarks collection in the order they appear on the DataGrid, not in the order they were selected?**

Reference: **DAT1206**

*The following will step through the selected bookmarks in the order they appear:*

```
Private Sub Command1_Click()

    Dim bm As Variant
    Dim j, i As Integer

    ' MoveFirst is necessary when using GetBookmark method;
    ' this method is specific to the DataGrid's current location
    SSDBGrid1.MoveFirst

    For i = 0 To SSDBGrid1.Rows - 1
        bm = SSDBGrid1.GetBookmark(i) ' Get the bookmark for each row
        For j = 0 To SSDBGrid1.SelBookmarks.Count - 1 ' For each selected row
            If CStr(bm) = CStr(SSDBGrid1.SelBookmarks(j)) Then
                ' If DataGrid bookmark matches selbookmark
                Debug.Print SSDBGrid1.Columns(0).CellText(bm)
            End If
        Next j
    Next i

End Sub
```

**How can I manually 'ListAutoPosition' through an AddItem combo list using all entered characters?**

Reference: **DAT1226**

*This routine will position the combo list based on the current value entered.*

```
Private Sub SSDBcombo1_Change()  
    Dim i%  
    Dim bm As Variant  
  
    If SSDBcombo1.Text <> "" Then  
        For i = 0 To SSDBcombo1.Rows - 1  
            SSDBcombo1.MoveFirst  
            bm = SSDBcombo1.GetBookmark(i)  
            If UCase(SSDBcombo1.Text) =  
UCase(Mid(SSDBcombo1.Columns(0).CellText(bm), 1,  
Len(SSDBcombo1.Text))) Then  
                SSDBcombo1.Bookmark = bm  
                Exit For  
            End If  
        Next i  
    End If  
  
End Sub
```

## How can I perform my own incremental search in an SSDBCombo?

Reference: **DAT1187**

*Use the following procedure:*

```
Private Sub SSDBCombo1_PositionList(ByVal Text As String)

    Dim sctr As String

    sctr = "name like'" & Text & "*" & "'"

    Debug.Print sctr
    Data1.Recordset.FindFirst sctr
    SSDBCombo1.Bookmark = Data1.Recordset.Bookmark

End Sub
```

### How can I place the Record number of the row in an Unbound Column of a bound SSDBGrid?

Reference: **DAT1200**

*The following procedure adds an unbound row number column to a bound DataGrid:*

**Note** This code will only work if the **RecordsetType** property of the Data Control is set to "1-Dynaset".

```
(General) (declarations)
```

```
Dim flag As Boolean  
Dim rs As Recordset
```

```
Private Sub Form_Activate()
```

```
    flag = True  
    Set rs = Data1.Recordset.Clone()
```

```
End Sub
```

```
Private Sub SSDBGrid1_InitColumnProps()
```

```
    SSDBGrid1.Columns.Add 0
```

```
End Sub
```

```
Private Sub SSDBGrid1_RowLoaded(ByVal Bookmark As Variant)
```

```
    If flag = True Then  
        rs.Bookmark = Bookmark  
        SSDBGrid1.Columns(0).Text = rs.AbsolutePosition  
    End If
```

```
End Sub
```

**How can I programmatically select a row?**

Reference: **DAT1246**

*Add it to the SelBookmarks collection.*

To programmatically select a row you must add it to the SelBookmarks collection. This collection holds all the selected rows bookmarks in the order they were selected.

The following selects the current row:

```
SSDBGrid1.SelBookmarks.Add SSDBGrid1.Bookmark
```

**How can I put default search strings and selection criteria in the Find dialog without having to construct my own Find dialog?**

Reference: **DAT1222**

*Use the SendKeys statement to add your own criteria to the dialog.*

```
Private Sub SSDBData1_ShowFindDialog()  
  
    DoEvents ' Give time to show the dialog  
    SendKeys "*" ' Send a default string - an asterisk  
    SendKeys "%L" ' Choose L for Less than  
    SendKeys "%D" ' Choose D to search down  
  
    SendKeys "{TAB}" ' Tab to field list box  
    SendKeys "{PGUP}" ' Go to the top of the list  
    SendKeys "{down 3}" ' Arrow down to the default field  
  
End Sub
```

### How can I search for a string in a column of the SSDBGrid?

Reference: **DAT1161**

*Use the following procedure to search for a string in a grid column:*

Place a SSDBGrid on a form (it doesn't matter which data mode the grid is in.) Place a text box on a form. Place a command button on the form, put the following code in the **Click** event:

```
Private Sub Command1_Click()  
  
    ' This code is designed to search for  
    ' the contents of the text box in column 1 of the DataGrid.  
  
    Dim bm as Variant  
  
    For i = 0 To SSDBGrid1.Rows - 1  
        SSDBGrid1.MoveFirst  
        bm = SSDBGrid1.GetBookmark(i)  
        If Text1.Text = SSDBGrid1.Columns(1).CellText(bm) Then  
            SSDBGrid1.Bookmark = SSDBGrid1.GetBookmark(i)  
            Exit For  
        End If  
    Next i  
  
End Sub
```

## How can I select a consecutive number of cells and copy their contents to the clipboard?

Reference: **DAT1215**

*Use the following procedure to copy grid cells to the clipboard.*

```
(General) (declarations)

    Dim griddata As String

Private Sub Form_Load()

    ' Create styleset with bgcolor of red
    SSDBGrid1.StyleSets("color").BackColor = RGB(255, 55, 55)

End Sub

Private Sub SSDBGrid1_MouseDown(Button As Integer, Shift As Integer, X As
Single, Y As Single)

    Dim bm As Variant

    ' If right mouse click
    If Button = 2 Then
        ' Apply the styleset "color" to the cell
        SSDBGrid1.Columns(SSDBGrid1.ColContaining(X)).CellStyleSet ("color"),
SSDBGrid1.RowContaining(Y)
        ' Get the row's bookmark
        bm = SSDBGrid1.RowBookmark(SSDBGrid1.RowContaining(Y))
        ' Build string of cell's contents
        griddata = griddata +
SSDBGrid1.Columns(SSDBGrid1.ColContaining(X)).CellText(bm)
        ' Copy contents to ClipBoard
        Clipboard.SetText griddata
    Else
        ' If left mouse click clear griddata and Clipboard and clear stylesets
        applied to DataGrid
        SSDBGrid1.Refresh
        griddata = ""
        Clipboard.SetText griddata
    End If

End Sub
```



**How can I set focus to the next control in the tab order when I hit the tab key while the DataGrid has focus?**

Reference: **DAT1177**

*Use the following code to allow the user to tab to the next control from the last row of the grid:*

```
Private Sub SSDBGrid1_KeyDown(KeyCode As Integer, Shift As Integer)

    If KeyCode = 9 And SSDBGrid1.Row = SSDBGrid1.Rows Then
        ' The tab key has been pressed on the last row
        For i = 0 To Form1.Controls.Count
            ' Go through the controls and find the next enabled control in the
            tab order
            If Form1.Controls(i).TabIndex > SSDBGrid1.TabIndex And
Form1.Controls(i).Enabled = True Then
                Form1.Controls(i).SetFocus
                Exit For
            End If
        Next i
    End If

End Sub
```

This code moves to the next control when user tabs off last row in a grid with **AllowAddNew** set to False. It also moves to next control when user tabs off the Add row in a grid with **AllowAddNew** set to True.

## How can I sort the Columns in an AddItem DataGrid since there is no "Ordered" property?

Reference: **DAT1224**

*The following procedure will sort the contents of an AddItem grid using a memory array as a temporary holding place for the data. It also makes use of an efficient bubble sort algorithm.*

This example requires a DataGrid in AddItem DataMode. (This can also be applied to the DataDropdown and the DataCombo in the AddItem DataMode):

```
Private Sub Command1_Click()

    Call Order_An_Additem_Control(SSDBGrid1, SSDBGrid1.Rows, SSDBGrid1.Cols,0)
    ' This function will sort an additem data grid
    ' It passes the following parameters:
    ' "In_Control" = Name of the control being sorted
    ' "In_Number_Of_Rows" = Number of rows in the additem grid
    ' "In_Number_OF_Cols" = Number of columns in the additem grid. Leave 0 if
there is only one column
    ' "Sort_Column" = Column to be sorted on

End Sub
```

Place this code in a Module:

```
Sub Order_An_Additem_Control(In_Control As Control, ByVal In_Number_Of_Rows
As Integer, ByVal In_Number_Of_Cols As Integer, ByVal Sort_Column As
Variant)

    Dim L_MultiSingle As Integer      ' If False then we are using Single
Dimensional array, else Multi
    Dim i As Integer      ' Temporary variable
    Dim j As Integer      ' Temporary variable
    Dim k As Integer      ' Temporary variable
    Dim l_Array_Holding_Items() As String  ' Temporary array that will contain
the info in the control
    Dim Temp_Text As String
    Dim Temp2 As String

    ' Turn off Redraw
    In_Control.Redraw = False
    Screen.MousePointer = 11

    ' Create the array
    If (Sort_Column) < 0 Then Sort_Column = 0

    If In_Number_Of_Cols > 1 Then      ' Create a 2 dimensional array
        ReDim l_Array_Holding_Items(In_Number_Of_Rows, In_Number_Of_Cols)
        L_MultiSingle = True
    Else
        ReDim l_Array_Holding_Items(In_Number_Of_Rows)
        L_MultiSingle = False
    End If

    ' Populate the arrays
    Select Case L_MultiSingle
```

```

Case True ' Multi
    For i = 0 To In_Number_Of_Rows - 1
        For J = 0 To In_Number_Of_Cols - 1
            In_Control.Bookmark = In_Control.AddItemBookmark(i) ' Set the
bookmark to a row
            ' Set the array to the contents of the row above
            l_Array_Holding_Items(i, J) = In_Control.Columns(J).Text
        Next J
        DoEvents
    Next i

Case False
    For i = 0 To In_Number_Of_Rows - 1
        In_Control.Bookmark = In_Control.AddItemBookmark(i) ' Sets the
bookmark to a row
        ' Sets the array to the contents of the row above
        l_Array_Holding_Items(i) = In_Control.Columns(0).Text
        DoEvents
    Next i

End Select

' Bubble sort the array
For i = 0 To In_Number_Of_Rows - 1
    For J = In_Number_Of_Rows - 1 To i + 1 Step -1
        If L_MultiSingle = False Then ' Single Array
            DoEvents
            If l_Array_Holding_Items(J) < l_Array_Holding_Items(J - 1) Then
                Temp2 = l_Array_Holding_Items(J)
                l_Array_Holding_Items(J) = l_Array_Holding_Items(J - 1)
                l_Array_Holding_Items(J - 1) = Temp2
            End If
        Else ' Multiple
            DoEvents
            If l_Array_Holding_Items(J, Sort_Column) < l_Array_Holding_Items(J -
1, Sort_Column) Then
                For k = 0 To In_Number_Of_Cols - 1
                    Temp2 = l_Array_Holding_Items(J, k)
                    l_Array_Holding_Items(J, k) = l_Array_Holding_Items(J - 1, k)
                    l_Array_Holding_Items(J - 1, k) = Temp2
                Next k
            End If
        End If
    Next J
Next i

' Repopulate the control with sorted items
In_Control.RemoveAll

Select Case L_MultiSingle
Case True ' Multi
    For i = 0 To In_Number_Of_Rows - 1
        Temp_Text = ""
        For J = 0 To In_Number_Of_Cols - 1
            If J = 0 Then

```

```

                Temp_Text = In_Control.FieldDelimiter &
l_Array_Holding_Items(i, J) & In_Control.FieldDelimiter
            Else
                Temp_Text = Temp_Text & In_Control.FieldSeparator &
In_Control.FieldDelimiter & l_Array_Holding_Items(i, J) &
In_Control.FieldDelimiter
            End If
        Next J
        In_Control.AddItem Temp_Text
        DoEvents
    Next i

Case False
    For i = 0 To In_Number_Of_Rows - 1
        In_Control.AddItem l_Array_Holding_Items(i)
        DoEvents
    Next i
End Select

' Turn Redraw back on
In_Control.Redraw = True
Screen.MousePointer = 0

End Sub

```

## How can I synchronize the horizontal scrolling of two DataGrids?

Reference: **DAT1168**

Use the following code in the **ScrollAfter** event of each DataGrid.

```
Private Sub SSDBGrid1_ScrollAfter()  
    SSDBGrid2.LeftCol = SSDBGrid1.LeftCol  
  
End Sub
```

```
Private Sub SSDBGrid2_ScrollAfter()  
    SSDBGrid1.LeftCol = SSDBGrid2.LeftCol  
  
End Sub
```

If you are using the SplitterBar then the above code will not work because SSDBGrid1.LeftCol will remain at "0". Please refer to the following sample when using the SplitterBar:

```
Private Sub SSDBGrid1_ScrollAfter()  
  
    Dim i%, j%, k%  
    i = SSDBGrid1.SplitterPos  
    j = SSDBGrid1.ColPosition(SSDBGrid1.Columns(0).Position + i)  
    k = SSDBGrid2.ColPosition(SSDBGrid2.Columns(0).Position + i)  
    If j > k Then  
        SSDBGrid2.Scroll 1, 0  
    Else  
        If j > 0 And j <> k Then  
            SSDBGrid2.Scroll -1, 0  
        End If  
    End If  
  
End Sub
```

### How can I total a column in a bound DataGrid?

Reference: **DAT1141**

*Use this procedure to place the total of a grid column in a text box.*

Place a bound DataGrid, command button and text box on a form. Use the following code:

```
Dim temp as Global Integer

Private Sub Command1_Click()

    SSDBGrid1.MoveFirst
    For i = 0 To SSDBGrid1.Rows - 1
        bm = SSDBGrid1.GetBookmark(i)
        temp = temp + SSDBGrid1.Columns(0).CellValue(bm)
    Next
    Text1.Text = temp

End Sub
```

**How can I trap for messages through the DBEngine directly and display the Error Number and Error Description from DAO?**

Reference: **DAT1166**

*This code will give you an idea of how to handle errors from DBEngine.*

```
Private Sub SSDBGrid1_AfterUpdate(RtnDispErrMsg As Integer)

    If DBEngine.Errors.Count Then
        Debug.Print DBEngine.Errors(0).Number
        RtnDispErrMsg = False 'turn off DataGrid default message
        MsgBox "Error: " & DBEngine.Errors(0).Number & " " & "Description:
" & _
        DBEngine.Errors(0).Description, 32
    End If

End Sub
```

**How can I update a DataGrid without moving off the row or if the Grid loses focus?**

Reference: **DAT1147**

*Use the following procedure to update the recordset without changing the current row.*

In the SSDBGrid's **LostFocus** event put the following:

```
Private Sub SSDBGrid1_LostFocus()  
  
    If SSDBGrid1.RowChanged = True Then  
        SSDBGrid1.Update  
    End If  
  
End Sub
```



**How can I write all of the data that resides in an Additem DataGrid into a database?**

Reference: **DAT1151**

*The following procedure will store the entire contents of the AddItem grid in a database.*

This code assumes that you have a Data Control on the Form that is attached to a table that contains the same number of fields as columns in the DataGrid.

```
Private Sub Command1_Click()  
  
    For i = 0 To SSDBGrid1.Rows - 1  
        Data1.Recordset.AddNew  
        For x = 0 To SSDBGrid1.Columns.Count - 1  
            Data1.Recordset(x) =  
SSDBGrid1.Columns(x).CellText(SSDBGrid1.AddItemBookmark(i))  
        Next x  
        Data1.Recordset.Update  
    Next i  
  
End Sub
```

## How do I copy the SSDBGrid contents to the clipboard?

Reference: **DAT1196**

*The following code copies the contents of the grid to the clipboard:*

```
Dim GridData as string
Dim bm as variant

GridData = ""
SSDBGrid1.movefirst
For i = 0 to SSDBGrid1.Rows - 1
    bm = SSDBGrid1.GetBookmark(i)
    For a = 0 to SSDBGrid1.cols - 1
        griddata = griddata + SSDBGrid1.Columns(a).CellText(i) + ""
    Next
Next

Clipboard.SetText GridData
```

## How do I know what row I am on in a DataGrid?

Reference: **DAT1243**

*Use bookmarks to determine the row number within a recordset, or the **Row** property to determine which of the visible rows you are on.*

Data Widgets 2.0 refers to Bookmarks only, not row numbers. This change was made due to the VB4 environment itself. VB4 uses a Bookmark when referencing a record, not a row number. The **Row** property in Data Widgets 2.0 pertains to the visible row number only. Every top row in the DataGrid will return row 0.

If you feel you do need to refer to a row number you can do the following:

If DataMode is Bound - the AbsolutePosition of the DataControl (RecordSetType of Dynaset only) will return the Row number:

```
lAbsoluteRow = Data1.RecordSet.AbsolutePosition
```

If DataMode is Unbound - if you were using a RecordSet, the same properties would apply as if it were bound. You can use the same as above.

```
lAbsoluteRow = RecordSet.AbsolutePosition
```

If DataMode is AddItem - the **Bookmark** property in this DataMode returns an absolute row number.

```
lAddItemRow = SSDBGrid1.AddItemRowIndex(SSDBGrid1.Bookmark)
```

To get the number of the visible row, use the **Row** property:

```
iVisibleRow = SSDBGrid1.Row
```

To get the Column number the same would apply in all DataModes.

```
iColumn = SSDBGrid1.Col
```

## How would I color a row based upon what has been entered into a cell?

Reference: **DAT1144**

*To get this effect you must have a column somewhere in the DataGrid that holds a value that determines the color that row should be.*

For example, this sample checks the value that is in column 0 and decides which color to apply to the row.

```
Private Sub Form_Load()  
    ' Define the stylesets here.  
    SSDBGrid1.StyleSets("yesStyle").BackColor = RGB(255, 0, 0)  
    SSDBGrid1.StyleSets("noStyle").BackColor = RGB(0, 255, 0)  
End Sub  
  
Private Sub SSDBGrid1_RowLoaded(ByVal Bookmark As Variant)  
    Dim i As Integer  
  
    If SSDBGrid1.Columns(0).Text = "no" Then  
        For i = 0 To SSDBGrid1.Cols - 1  
            SSDBGrid1.Columns(i).CellStyleSet "noStyle"  
        Next i  
  
    ElseIf SSDBGrid1.Columns(0).Text = "yes" Then  
        For i = 0 To SSDBGrid1.Cols - 1  
            SSDBGrid1.Columns(i).CellStyleSet "yesStyle"  
        Next i  
  
    Else  
        ' Do not apply any styleset.  
        For i = 0 To SSDBGrid1.Cols - 1  
            SSDBGrid1.Columns(i).CellStyleSet "  
        Next i  
  
    End If  
End Sub
```

The reason the stylesets are applied in the **RowLoaded** event is that the DataGrid is a virtual control. As rows are scrolled off the screen, the styleset applied to that row no longer exists. As rows come into view, the **RowLoaded** event is fired. By checking the value of Column 0 in the **RowLoaded** event, you can apply the styleset to that row as it comes into view.

### How would I limit the number of characters in the text portion of the DataCombo?

Reference: **DAT1130**

Use the **KeyPress** event or the Windows API.

This code limits the edit portion of the DataCombo to five characters.

```
Private Sub SSDBCombo1_KeyPress(KeyAscii As Integer)

    If Len(Trim(SSDBCombo1.Text)) >= 5 Then
        KeyAscii = 0
        Beep
    End If

End Sub
```

Or you can get the same effect using the Windows API (this sample is for 32 Bit).

```
' Place these lines in a module
Public Const EM_LIMITTEXT = &HC5
Declare Function SendMessage Lib "user32" Alias "SendMessageA" (ByVal hwnd
As Long, ByVal wParam As Long, ByVal lParam As Long) As Long

' Then place this code in the GotFocus event of the combo
' the third argument is the maximum permitted length of the string
Dim x As Long
x = SendMessage(SSDBCombo1.HwndEdit, EM_LIMITTEXT, 5, 0)
```

## How would I use one drop down to update several columns on a grid?

Reference: **DAT1133**

Use the **RowColChange** event, as outlined in the following procedure.

In this sample both columns 3 and 5 in the DataGrid are attached to the same DropDown control. In the **RowColChange** event, the RecordSource of the data control bound to the DropDown is changed based on the Column in the DataGrid.

```
Private Sub SSDBGrid1_InitColumnProps()  
  
    SSDBGrid1.Columns(3).DropDownHwnd = SSDBDropDown1.hWnd  
    SSDBGrid1.Columns(5).DropDownHwnd = SSDBDropDown1.hWnd  
  
End Sub  
  
Private Sub SSDBGrid1_RowColChange(ByVal LastRow As Variant, ByVal LastCol  
As Integer)  
  
    If SSDBGrid1.Col = 3 And Data2.RecordSource <> "Publishers" Then  
        Data2.RecordSource = "Publishers"  
        Data2.Refresh  
        SSDBDropDown1.DataFieldList = "PubId"  
    ElseIf SSDBGrid1.Col = 5 And Data2.RecordSource <> "Authors" Then  
        Data2.RecordSource = "Authors"  
        Data2.Refresh  
        SSDBDropDown1.DataFieldList = "Au_ID"  
    End If  
  
End Sub
```

**If I am loading an Additem DataGrid with a dynaset, how can I synchronize the dynaset with the DataGrid?**

Reference: **DAT1146**

*The procedure below illustrates how to synchronize the movement of the DataGrid with the record pointer.*

```
Dim db as Database
Dim rs as Recordset

Private Sub Form_Load()

    Dim i As Integer
    Dim ct As Integer

    Set db = OpenDatabase(App.Path & "\unbound.mdb")
    Set rs = db.OpenRecordset("titles")

    ct = rs.Fields.Count

    SSDBGrid1.Columns.RemoveAll
    For i = 0 To (ct - 1)
        SSDBGrid1.Columns.Add i
        SSDBGrid1.Columns(i).Visible = True
        SSDBGrid1.Columns(i).Caption = rs.Fields(i).Name
    Next i

End Sub

Private Sub Form_Activate()

    Dim strData As String

    rs.MoveFirst
    Do While Not rs.EOF
        For i = 0 To SSDBGrid1.Cols - 1
            strData = strData & rs(i) & vbTab
        Next i
        SSDBGrid1.AddItem strData
        strData = ""
        rs.MoveNext
    Loop

End Sub

Private Sub SSDBGrid1_RowColChange(ByVal LastRow As Variant, ByVal LastCol
As Integer)

    rs.AbsolutePosition = SSDBGrid1.AddItemRowIndex(SSDBGrid1.Bookmark)

End Sub
```

**Is there an automatic conversion utility available when converting from Data Widgets 1.0 to Data Widgets 2.0?**

Reference: **DAT1245**

*No.*

There are significant differences between the Data Widgets 1.0 components and the Data Widgets 2.0 components. Besides making full use of the latest OLE technology, we included many new features and enhancements that were requested by our customers. An automatic conversion would not make use of the new properties and the object and collection architecture now supported in OLE technology.

For example, in Data Widgets version 1.0 you obtained a cell's value by using an element of an indexed property array - the **ColText** property of the DataGrid:

```
sColumnText = SSDataGrid1.ColText(n)
```

In Data Widgets version 2.0 the columns are now a part of a collection of Column objects. Array properties and subscripts are no longer used. To obtain the same information, you would use the **Text** property of the Column object:

```
sColumnText = SSDBGrid1.Columns(n).Text
```

This is just a small sample of how the differences apply. While we do realize the manual conversion can be a time consuming process, we have included a help file, [DATW1TO2.HLP](#), that will help with the process. This file lists all the Data Widgets 1.0 Properties, Events & Methods that were supported and explains how you can achieve the same functionality in Data Widgets version 2.0.



**The Enhanced Data Control displays a message box when the Find function does not find anything. How can I post my own message instead of the default message?**

Reference: **DAT1119**

*You must set the `RtnDispErrMsg` parameter of the **FindResult** event to `False`, then display your own message through code.*

In the **FindResult** event place this code:

```
If CStr(vBookmark) = "" Then
    MsgBox "MyMessage"
    RtnDispErrMsg = False
End If
```

### **What is different in version 2.0?**

Reference: **DAT1047**

*These are the main differences between version 1.X and 2.X of the DataWidgets controls:*

1. They are no longer in the VBX format, they are now 16-bit and 32-bit ActiveX controls.
2. The ActiveX format utilizes Microsoft's OLE automation specifications.
3. OurActiveX controls can now be used on a range of development environments, whereas in the past, the product was limited to environments that supported the VBX format.
4. Version 2.0 of Data Widgets introduces the use of objects and collections. Objects allow you to more easily manipulate the custom controls. For example, you can now directly set a property specific to an object (such as an individual column).

## What is the best method of learning Data Widgets 2.0?

Reference: **DAT1242**

Part of the difficulty with learning Data Widgets 2.0 is due to the OLE features of Objects and Collections. Once you understand this new technology, you will have no problem familiarizing yourself with Data Widgets 2.0.

The manual provides a **Guided Tour** section which is a basic, but thorough approach to familiarizing yourself with each component and their most common uses. Once you understand the basics of how to use each control, you will better understand the properties and methods that are applicable to that component.

You may want to review each of the collections used in Data Widgets 2.0 to gain an understanding of the objects the collection comprises. You can then review the properties of each object.

For example, there is a Columns collection that is composed of Column objects. This collection (like any collection) enables you to add objects to it, remove objects from it, or count how many objects it currently holds. If you wish to refer to an individual Column object, you refer to it by its place in the collection. Thus, the first Column object added to the collection would be referred to as Columns(0).

If you wish to set certain attributes of Columns(0) you would then refer to the Column object and its properties. You can set the Text, Caption, Style, BackColor, etc. properties of this Column. Each would be referred by using the Column object and its place in the Columns collection:

```
SSDBGrid1.Columns(0).Text = "Hello World"  
SSDBGrid1.Columns(0).Caption = "Name"
```

This does not mean that you will learn every property, method or event, but once you have a better understanding of how objects and collections work you will have an easier time looking for help on a specific property or method you would like to use.

**When I bind the SSDBCombo's DataSourceList to a DataControl and choose an item from the list, my other bound controls do not reflect the same record.**

Reference: **DAT1249**

*You must manually reposition the Data control to achieve this effect.*

When choosing an item from the list, you are moving the position of the SSDBCombo, but it is not repositioning the bound DataControl. This is done to increase the speed of positioning of the SSDBCombo.

You can set the Data control's bookmark equal to the SSDBCombo's bookmark and it will keep the other bound controls in sync with the SSDBCombo.

In the **CloseUp** event of the SSDBCombo put the following code:

```
Data1.RecordSet.Bookmark = SSDBCombo1.Bookmark
```

**When I set the CellStyleSet to a particular cell then scroll the cell out of view, the CellStyleSet is no longer applied when the cell scrolls back into view - how can I fix this?**

Reference: **DAT1121**

*Use the following procedure:*

In order to get this effect, you need to a field in the Database associated with the Styleset. Whenever this field contains a certain value, you should apply this styleset to the DataGrid in the **RowLoaded** event.

Place a DBGrid and Command Button on the form and add the following code:

```
(General) (declarations)

    Dim temp as String

Private Sub Form_Load()

    temp = ""
    SSDBGrid1.StyleSets("color").BackColor = RGB(255, 55, 55)

End Sub

Private Sub Command1_Click()

    SSDBGrid1.Columns(1).CellStyleSet ("color"), SSDBGrid1.Row
    temp = SSDBGrid1.Columns(1).CellValue(SSDBGrid1.Bookmark)

End Sub

Private Sub SSDBGrid1_RowLoaded(ByVal Bookmark As Variant)

    If SSDBGrid1.Columns(1).Text = temp Then
        SSDBGrid1.Columns(1).CellStyleSet ("color")
    Else
        SSDBGrid1.Columns(1).CellStyleSet ""
    End If

End Sub
```

**When distributing my application that has a Data Widgets 2.0 control included, the Form will open, but will return an error "Can't Load Custom Control DLL".**

Reference: **DAT1244**

*You must correctly distribute and register all the DLLs needed by Data Widgets 2.0.*

There are specific DLLs needed by Data Widgets in order to register the control and make use of the OLE technology. These DLLs are not included when running the Setup Wizard in Visual Basic 4.

The DLLs required can be found on the Data Widgets 2.0 on-line help in the Technical Specifications section "[Distributing Your Application](#)". The DLLs you need do vary depending on which environment you are supporting (16-bit and/or 32-bit applications) and are listed accordingly in this section.

**When starting the Custom DataGrid editor, why do I get an error 31037 "Error loading from file"?**

Reference: **DAT1194**

This error occurs when the shared system files TABCTL16.OCX and/or TABCLT32.OCX are not registered on your system. This occurs occasionally when an application's uninstall program mishandles the un-registration and removal of its support files.

When the Data Widgets install program installs a shared system file, it first checks to make sure that the version it is about to install is newer than that which already exists on your system. If it is newer, the install program proceeds to copy the file and then registers it. If a newer version of the file already exists on your system, the file is not copied and is not registered (It is not registered because existing system file are assumed to be registered and used by other applications).

When TABCTL16.OCX or TABCLT32.OCX is no longer registered, but can still be found on your system - you will receive the error "31037 - Error Loading From File" when executing the Custom Property Pages.

As a measure to correct this problem, you can manually register the file(s) using REGSVR.EXE (for TABCTL16.OCX) and/or REGSVR32.EXE (for TABCLT32.OCX).

**When using SQLPassThrough, the DataCombo's ListAutoPosition and ListAutoValidate no longer work. Why?**

Reference: **DAT1176**

Working with SQLPassThrough disables all search mechanisms. This is a limitation inherent to Visual Basic 4. Therefore, the DataCombo will no longer be able to perform the **ListAutoPosition** or the **ListAutoValidate** methods.



**When using an unbound DataGrid, how can I display a value from my dynaset in a text box as I change rows?**

Reference: **DAT1135**

Use the **RowColChange** event, as outlined in the following procedure.

In the **RowColChange** event you could do one of the following:

```
Private Sub SSDBGrid1_RowColChange(ByVal LastRow As Variant, ByVal LastCol  
As Integer)
```

```
    ' rs = Recordset  
    rs.Bookmark = SSDBGrid1.Bookmark  
    Text1.Text = rs("au_id")
```

```
End Sub
```

**OR**

```
Text1.Text = SSDBGrid1.Columns(2).Text
```

**When using the SSDBCombo in Visual C++ 4.X, why will a character typed in the edit portion appear for a second then disappear?**

Reference: **DAT1276**

*This is caused by a bug in MFC.*

There is a bug in MFC that causes problems if the **ListAutoValidate** property is set to True (the default value). This is caused by MFC requiring each keystroke to be validated against the list. If the keystroke is not found, the string in the SSDBCombo is reset to its previous value.

The workaround for this is to set the **ListAutoPosition** property to False, and if you are using a Remote Data Control, use the Validate event on the MSRDC to handle the validation of the data yourself.

**Why can't Data Widgets controls be bound in Visual C++ 4.0?**

Reference: **DAT956**

*DataWidgets 2.0 requires Advanced Data Binding.*

Visual C++ version 4.0 does not support Advanced Data Binding, therefore, you can not bind Data Widgets 2.0. Visual C++ version 4.0 does support Simple Data Binding, which is sufficient for Calendar Widgets. However, Visual C++ 4.2 **does** support the Remote Data Control which allows the Data Widgets components to work in the Bound DataMode.

**Why do I get an error when I bind the DataCombo's DataSource to a MSRDC control and perform a MSRDC1.ResultSet.Update?**

Reference: **DAT1205**

This is a problem with the Microsoft Remote Data Control. The problem can be reproduced with the Microsoft Masked Edit Control.

**Why isn't the SSDBCombo or SSDBDropdown dropping down?**

Reference: **DAT1248**

*The **DataFieldList** property is not set correctly.*

Whether you are using the SSDBCombo or SSDBDropdown in Bound; Unbound; or AddItem DataMode you need to set the **DataFieldList** property. This property tells the control which Column from the list you would like to appear in the Edit Portion when selected. Without setting this property the control will not drop down.

