

```

1  //////////////////////////////////////
2  //
3  //  Function:      pfc_clicked
4  //
5  //  Access:       Public
6  //
7  //  Arguments:    (passed arguments of dw Clicked event)
8  //  xpos (integer)      The x-position of the mouse
9  //  ypos (integer)      The y-position of the mouse
10 //  row (long)         The row number clicked on, if any
11 //  dwo (dwoobject)    The dwoobject clicked on )
12 //  cntl_clicked (boolean) Indicates that the user pressed Ctnl/Click
13 //
14 //  Returns:       Integer
15 //                 1 if it succeeds.
16 //                 0 if no action was required.
17 //                 -1 if an error occurs.
18 //
19 //  Description:    Causes sorting when the user clicks on the header
20 //                 of a datawindow, emulating the WIN95 style.
21 //                 Click causes new sort (alternately Asc/Desc if same column).
22 //
23  //////////////////////////////////////
24  //
25  //  Revision History
26  //
27  //  Version:       5.0      Initial version
28  //                 12.5     Add sort order indicator capability
29  //
30  //////////////////////////////////////
31  //
32  /*
33  * Open Source PowerBuilder Foundation Class Libraries
34  *
35  * Copyright (c) 2004-2017, All rights reserved.
36  *
37  * Redistribution and use in source and binary forms, with or without
38  * modification, are permitted in accordance with the MIT License
39  *
40  *
41  * https://opensource.org/licenses/MIT
42  *
43  * =====
44  *
45  * This software consists of voluntary contributions made by many
46  * individuals and was originally based on software copyright (c)
47  * 1996-2004 Sybase, Inc. http://www.sybase.com. For more
48  * information on the Open Source PowerBuilder Foundation Class
49  * Libraries see https://github.com/OpenSourcePFCLibraries
50  */
51  //
52  //////////////////////////////////////
53
54  string  ls_headername
55  string  ls_colname
56  integer li_rc
57  integer li_suffixlen
58  integer li_headerlen
59  string  ls_sortstring
60
61  // Validate the dwo reference.
62  IF IsNull(adwo_obj) OR NOT IsValid(adwo_obj) THEN
63      Return -1
64  END IF
65
66  // Check if the service is set to sort on column headers.
67  IF NOT of_GetColumnHeader() THEN Return 0
68
69  // Only valid on header column.

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70 If String(adwo_obj.Name) = 'datawindow' THEN Return 0
71
72 setNull(ls_headerName)
73
74 // Get column header information.
75 IF isValid(invo_sortDraw) THEN
76
77     // Did the user click on the sort order indicator itself, if so
78     // treat it as if the column header was clicked
79     IF invo_sortDraw.of_isSortLineClicked(String(adwo_obj.Name)) THEN
80
81         // User clicked on the sort order indicator, treat the click
82         // as a toggle between ascending/descending and vice versa.
83         ls_headerName = is_sortColumn + of_getDefaultHeaderSuffix()
84
85     ELSE
86         IF adwo_obj.Band <> "header" THEN Return 0
87     END IF
88 ELSE
89     IF adwo_obj.Band <> "header" THEN Return 0
90 END IF
91
92 IF isNull(ls_headerName) THEN ls_headerName = String(adwo_obj.Name)
93
94 li_headerlen = Len(ls_headerName)
95 li_suffixlen = Len(is_defaultheadersuffix)
96
97 // Extract the column name from the header label
98 // (by taking out the header suffix).
99 IF Right(ls_headerName, li_suffixlen) <> is_defaultheadersuffix THEN
100     // Cannot determine the column name from the header.
101     Return -1
102 END IF
103 ls_colname = Left (ls_headerName, li_headerlen - li_suffixlen)
104
105 // Validate the column name.
106 If IsNull(ls_colname) or Len(Trim(ls_colname))=0 Then
107     Return -1
108 End If
109
110 // Check the previous sort click.
111 IF is_sortcolumn = ls_colname THEN
112     // Second sort click on the same column, reverse sort order.
113     IF is_sortorder = " A" THEN
114         is_sortorder = " D"
115     ELSE
116         is_sortorder = " A"
117     END IF
118 ELSE
119     // Clicked on a different column.
120     is_sortcolumn = ls_colname
121     is_sortorder = " A"
122 END IF
123
124 // Build the sort string.
125 IF of_GetUseDisplay() And of_UsesDisplayValue(ls_colname) THEN
126     ls_sortstring = "LookupDisplay(" + ls_colname + ") " + is_sortorder
127 ELSE
128     ls_sortstring = is_sortcolumn + is_sortorder
129 END IF
130
131 // Perform the SetSort operation (check the rc).
132 li_rc = of_SetSort (ls_sortstring, TRUE)
133 If li_rc < 0 Then Return li_rc
134
135 // Perform the actual Sort operation (check the rc).
136 li_rc = of_Sort()
137 If li_rc < 0 Then Return li_rc
138

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139 // Draw the sort order indicator
140 IF isValid(invo_sortDraw) THEN invo_sortDraw.of_draw(is_sortColumn)
141
142 Return 1
143
```