PFC Object Reference

Copyright © 1991-2004 Sybase, Inc.

Table of contents

PFC Examples Application 85
The Front End Launching Utility 85
The PFC Examples Application Files 85
PFC Examples Application Database 86
Contents 86
For a quick start with PFC 86
PFC Documentation 87
Using PFC 88
PowerBuilder Foundation Class Library Object Reference 88
..... 88
..... 89
Object Reference Conventions 90
Naming conventions 90
Online Help 94
Sample application and code examples 94
Window Objects 94
w_child 95
w_child 96
w_frame 96
w_frame 98
w_frame 98
w_frame 98
Activate event (w_frame) 99
Close event (w_frame) 99
Hide event (w_frame) 99
Move event (w_frame) 100
pfc_Cascade event (w_frame) 100
pfc_Layer event (w_frame) 100
pfc_MicroHelp event (w_frame) 100
pfc_MinimizeAll event (w_frame) 101
pfc_PostOpen event (w_frame) 101
pfc_PreToolbar event (w_frame) 101
pfc_TileHorizontal event (w_frame) 102
pfc_TileVertical event (w_frame) 102
pfc_Toolbars event (w_frame) 102
pfc_UndoArrange event (w_frame) 103
Resize event (w_frame) 103
Show event (w_frame) 103
w_frame 104
of_SetSheetManager function (w_frame) 104
of_SetSheetManager function (w_frame) 104
of_SetStatusBar function (w_frame) 104
of_SetStatusBar function (w_frame) 105
w_main 105
w_main 106
w_master 107
w_master 108

w_master 108
w_master 108
w_master 109
Activate event (w_master) 111
Close event (w_master) 111
CloseQuery event (w_master) 111
Move event (w_master) 111
Open event (w_master) 112
pfc_AcceptText event (w_master) 112
pfc_BeginTran event (w_master) 112
pfc_Close event (w_master) 113
pfc_ControlGotFocus event (w_master) 113
pfc_DBError event (w_master) 113
pfc_Descendant event (w_master) 114
pfc_EndTran event (w_master) 114
pfc_EndTran event (w_master) 114
pfc_Help event (w_master) 115
pfc_MessageRouter event (w_master) 115
pfc_MicroHelp event (w_master) 116
pfc_MRUClicked event (w_master) 116
pfc_MRUProcess event (w_master) 116
pfc_MRUProcess event (w_master) 117
pfc_MRURestore event (w_master) 117
pfc_MRURestore event (w_master) 118
pfc_MRUSave event (w_master) 118
pfc_New event (w_master) 118
pfc_New event (w_master) 119
pfc_Open event (w_master) 119
pfc_Open event (w_master) 119
pfc_PageSetup event (w_master) 120
pfc_PageSetup event (w_master) 120
pfc_PostOpen event (w_master) 120
pfc_PostOpen event (w_master) 120
pfc_PostUpdate event (w_master) 121
pfc_PreClose event (w_master) 121
pfc_PreClose event (w_master) 122
pfc_PreMRUSave event (w_master) 122
pfc_PreMRUSave event (w_master) 122
pfc_PreOpen event (w_master) 123
pfc_PreOpen event (w_master) 123
pfc_PreUpdate event (w_master) 123
pfc_PreUpdate event (w_master) 124
pfc_Print event (w_master) 124
pfc_Print event (w_master) 124
pfc_PrintImmediate event (w_master) 125
pfc_PrintImmediate event (w_master) 125
pfc_Save event (w_master) 125
pfc_SaveAs event (w_master) 126
pfc_SaveAs event (w_master) 126
pfc_SaveObjects event (w_master) 126

pfc_SaveObjects event (w_master) 127
pfc_Update event (w_master) 127
pfc_UpdateObjects event (w_master) 128
pfc_UpdatePrep event (w_master) 128
pfc_UpdatesPending event (w_master) 129
pfc_UpdatesPendingRef event (w_master) 129
pfc_Validation event (w_master) 130
Resize event (w_master) 130
w_master 130
of_AcceptText function (w_master) 131
of_AcceptText function (w_master) 132
of_GetCloseStatus function (w_master) 132
of_GetCloseStatus function (w_master) 133
of_GetDWType function (w_master) 133
of_GetDWType function (w_master) 134
of_GetInfo function (w_master) 134
of_GetInfo function (w_master) 134
of_GetSaveStatus function (w_master) 135
of_GetSaveStatus function (w_master) 135
of_GetUpdateObjects function (w_master) 135
of_GetUpdateObjects function (w_master) 136
of_IsAlwaysValidate function (w_master) 136
of_IsAlwaysValidate function (w_master) 137
of_IsUpdateable function (w_master) 137
of_IsUpdateable function (w_master) 137
of_MessageBox function (w_master) 138
of_MessageBox function (w_master) 138
of_PostUpdate function (w_master) 139
of_PostUpdate function (w_master) 139
of_SetAlwaysValidate function (w_master) 139
of_SetAlwaysValidate function (w_master) 140
of_SetBase function (w_master) 140
of_SetBase function (w_master) 141
of_SetDBErrorMsg function (w_master) 141
of_SetDBErrorMsg function (w_master) 141
of_SetLogicalUnitOfWork function (w_master) 142
of_SetLogicalUnitOfWork function (w_master) 142
of_SetPreference function (w_master) 142
of_SetPreference function (w_master) 143
of_SetResize function (w_master) 143
of_SetResize function (w_master) 143
of_SetUpdateable function (w_master) 144
of_SetUpdateable function (w_master) 144
of_SetUpdateObjects function (w_master) 144
of_SetUpdateObjects function (w_master) 145
of_SetUpdateRequestor function (w_master) 145
of_SetUpdateRequestor function (w_master) 146
of_Update function (w_master) 146
of_Update function (w_master) 146
of_UpdateChecks function (w_master) 147

of_UpdateChecks function (w_master) 147
of_UpdatePrep function (w_master) 148
of_UpdatePrep function (w_master) 148
of_UpdatesPending function (w_master) 148
of_UpdatesPending function (w_master) 149
of_Validation function (w_master) 149
of_Validation function (w_master) 150
w_popup 150
w_popup 151
w_response 152
w_response 153
w_response 153
pfc_Apply event (w_response) 153
pfc_Apply event (w_response) 153
pfc_Cancel event (w_response) 154
pfc_Cancel event (w_response) 154
pfc_Default event (w_response) 154
pfc_Default event (w_response) 155
w_sheet 155
w_sheet 156
w_sheet 157
Activate event (w_sheet) 157
pfc_ControlGotFocus event (w_sheet) 157
pfc_MicroHelp event (w_sheet) 158
Menus 158
m_dw 158
m_dw 159
m_dw 159
m_dw 160
of_SetParent function (m_dw) 160
of_SetParent function (m_dw) 160
m_edit 161
m_edit 161
m_edit 161
m_edit 162
of_SetParent function (m_edit) 162
of_SetParent function (m_edit) 162
m_frame 163
m_frame 163
m_lvs 164
m_lvs 165
m_lvs 165
m_lvs 165
of_SetParent function (m_lvs) 165
of_SetParent function (m_lvs) 166
m_master 166
m_master 168
m_master 168
of_SendMessage function (m_master) 169
of_SendMessage function (m_master) 169

m_oc 169
m_oc 170
m_oc 170
m_oc 170
of_SetParent function (m_oc) 171
of_SetParent function (m_oc) 171
m_tvs 171
m_tvs 172
m_tvs 172
m_tvs 173
of_SetParent function (m_tvs) 173
of_SetParent function (m_tvs) 173
Global Functions 174
f_SetFilesrv PowerScript function (m_tvs) 174
f_SetFilesrv PowerScript function (m_tvs) 174
f_SetFilesrv PowerScript function (m_tvs) 175
f_SetPlatform PowerScript function (m_tvs) 175
f_SetPlatform PowerScript function (m_tvs) 175
f_SetPlatform PowerScript function (m_tvs) 176
Global Structures and Structure Objects 176
n_cst_aboutattrib 176
n_cst_aboutattrib 176
n_cst_baseattrib 177
n_cst_baseattrib 177
n_cst_calculatorattrib 177
n_cst_calculatorattrib 177
n_cst_calendarattrib 178
n_cst_calendarattrib 178
n_cst_columnattrib 178
n_cst_columnattrib 178
n_cst_dberrorattrib 179
n_cst_dberrorattrib 179
n_cst_dirattrib 179
n_cst_dirattrib 180
n_cst_dssrv_multitableattrib 180
n_cst_dssrv_multitableattrib 180
n_cst_dwcacheattrib 181
n_cst_dwcacheattrib 181
n_cst_dwobjectattrib 181
n_cst_dwobjectattrib 182
n_cst_dwpropertyattrib 182
n_cst_dwpropertyattrib 182
n_cst_dwsrv_dropdownsearchattrib 182
n_cst_dwsrv_dropdownsearchattrib 183
n_cst_dwsrv_multitableattrib 183
n_cst_dwsrv_multitableattrib 183
n_cst_dwsrv_querymodeattrib 184
n_cst_dwsrv_querymodeattrib 184
n_cst_dwsrv_resizeattrib 184
n_cst_dwsrv_resizeattrib 185

n_cst_errorattrib 185
n_cst_errorattrib 185
n_cst_filterattrib 186
n_cst_filterattrib 186
n_cst_findattrib 186
n_cst_findattrib 187
n_cst_infoattrib 187
n_cst_infoattrib 187
n_cst_itemattrib 188
n_cst_itemattrib 188
n_cst_linkageattrib 188
n_cst_linkageattrib 188
n_cst_logonattrib 189
n_cst_logonattrib 189
n_cst_lvsrvattrib 189
n_cst_lvsrvattrib 190
n_cst_mruattrib 190
n_cst_mruattrib 190
n_cst_propertyattrib 191
n_cst_propertyattrib 191
n_cst_resizeattrib 191
n_cst_resizeattrib 192
n_cst_restorerowattrib 192
n_cst_restorerowattrib 192
n_cst_returnattrib 192
n_cst_returnattrib 193
n_cst_selectionattrib 193
n_cst_selectionattrib 193
n_cst_sortattrib 194
n_cst_sortattrib 194
n_cst_splashattrib 194
n_cst_splashattrib 195
n_cst_sqlattrib 195
n_cst_sqlattrib 195
n_cst_textstyleattrib 195
n_cst_textstyleattrib 196
n_cst_tmgregisterattrib 196
n_cst_tmgregisterattrib 196
n_cst_toolbarattrib 197
n_cst_toolbarattrib 197
n_cst_trregistration 197
n_cst_trregistration 198
n_cst_tvattrib 198
n_cst_tvattrib 198
n_cst_tvsrvattrib 199
n_cst_tvsrvattrib 199
n_cst_winsrv_sheetmanagerattrib 199
n_cst_winsrv_sheetmanagerattrib 200
n_cst_winsrv_statusbarattrib 200
n_cst_winsrv_statusbarattrib 200

n_cst_zoomattrib 200
n_cst_zoomattrib 201
s_pagesetupattrib 201
s_pagesetupattrib 202
s_paperattrib 202
s_paperattrib 202
s_printdlgattrib 202
s_printdlgattrib 203
s_svalue 203
s_svalue 203
Standard Visual User Objects 204
u_cb 204
u_cb 204
u_cb 205
GetFocus event (u_cb) 205
u_cb 205
of_GetParentWindow function (u_cb) 205
of_GetParentWindow function (u_cb) 206
of_MessageBox function (u_cb) 206
of_MessageBox function (u_cb) 207
u_cbx 207
u_cbx 208
u_cbx 208
GetFocus event (u_cbx) 208
u_cbx 208
of_GetParentWindow function (u_cbx) 209
of_GetParentWindow function (u_cbx) 209
of_MessageBox function (u_cbx) 210
of_MessageBox function (u_cbx) 210
u_ddlb 211
u_ddlb 212
u_ddlb 212
u_ddlb 212
CbnEditChange event (u_ddlb) 213
ContextMenu event (u_ddlb) 213
GetFocus event (u_ddlb) 213
pfc_Clear event (u_ddlb) 214
pfc_Copy event (u_ddlb) 214
pfc_Cut event (u_ddlb) 214
pfc_Paste event (u_ddlb) 215
pfc_PreRmbMenu event (u_ddlb) 215
pfc_SelectAll event (u_ddlb) 215
RButtonUp event (u_ddlb) 216
u_ddlb 216
of_GetParentWindow function (u_ddlb) 216
of_GetParentWindow function (u_ddlb) 217
of_MessageBox function (u_ddlb) 217
of_MessageBox function (u_ddlb) 218
u_ddplb 218
u_ddplb 219

u_ddplb 219
u_ddplb 220
CbnEditChange event (u_ddplb) 220
ContextMenu event (u_ddplb) 220
GetFocus event (u_ddplb) 221
pfc_Clear event (u_ddplb) 221
pfc_Copy event (u_ddplb) 221
pfc_Cut event (u_ddplb) 222
pfc_Paste event (u_ddplb) 222
pfc_PreRmbMenu event (u_ddplb) 222
pfc_SelectAll event (u_ddplb) 223
RButtonUp event (u_ddplb) 223
u_ddplb 223
of_GetParentWindow function (u_ddplb) 223
of_GetParentWindow function (u_ddplb) 224
of_MessageBox function (u_ddplb) 224
of_MessageBox function (u_ddplb) 225
u_dw 225
u_dw 227
u_dw 228
u_dw 229
Clicked event (u_dw) 232
DBError event (u_dw) 232
Destructor event (u_dw) 233
Dropdown event (u_dw) 233
GetFocus event (u_dw) 233
ItemChanged event (u_dw) 233
ItemError event (u_dw) 234
ItemFocusChanged event (u_dw) 234
ItemFocusChanged event (u_dw) 234
LButtonDown event (u_dw) 234
LButtonUp event (u_dw) 235
pfc_AcceptText event (u_dw) 235
pfc_AddRow event (u_dw) 235
pfc_Clear event (u_dw) 236
pfc_Copy event (u_dw) 236
pfc_Cut event (u_dw) 236
pfc_DDCalculator event (u_dw) 236
pfc_DDCalculator event (u_dw) 237
pfc_DDCalendar event (u_dw) 237
pfc_DDCalendar event (u_dw) 237
pfc_Debug event (u_dw) 238
pfc_DeleteRow event (u_dw) 238
pfc_Descendant event (u_dw) 238
pfc_FilterDlg event (u_dw) 238
pfc_FindDlg event (u_dw) 239
pfc_FirstPage event (u_dw) 239
pfc_InsertRow event (u_dw) 239
pfc_LastPage event (u_dw) 240
pfc_NextPage event (u_dw) 240

pfc_Operators event (u_dw) 240
pfc_PageSetup event (u_dw) 241
pfc_PageSetupDlg event (u_dw) 241
pfc_Paste event (u_dw) 241
pfc_PopulateDDDW event (u_dw) 242
pfc_PopulateDDDW event (u_dw) 242
pfc_PostInsertRow event (u_dw) 242
pfc_PostUpdate event (u_dw) 243
pfc_PostUpdate event (u_dw) 243
pfc_PreDeleteRow event (u_dw) 243
pfc_PreFindDlg event (u_dw) 244
pfc_PreInsertRow event (u_dw) 244
pfc_PrePageSetupDlg event (u_dw) 245
pfc_PrePageSetupDlg event (u_dw) 245
pfc_PrePrintDlg event (u_dw) 245
pfc_PrePrintDlg event (u_dw) 246
pfc_PreProperties event (u_dw) 246
pfc_PreReplaceDlg event (u_dw) 246
pfc_PreRestoreRow event (u_dw) 247
pfc_PreRestoreRow event (u_dw) 247
pfc_PreRmbMenu event (u_dw) 248
pfc_PreRmbMenu event (u_dw) 248
pfc_PreUpdate event (u_dw) 248
pfc_PreUpdate event (u_dw) 249
pfc_PreviousPage event (u_dw) 249
pfc_Print event (u_dw) 249
pfc_PrintDlg event (u_dw) 249
pfc_PrintImmediate event (u_dw) 250
pfc_PrintPreview event (u_dw) 250
pfc_Properties event (u_dw) 251
pfc_ReplaceDlg event (u_dw) 251
pfc_ResetUpdate event (u_dw) 251
pfc_RestoreRow event (u_dw) 251
pfc_Retrieve event (u_dw) 252
pfc_Retrieve event (u_dw) 252
pfc_RetrieveDDDW event (u_dw) 252
pfc_RowChanged event (u_dw) 253
pfc_RowValidation event (u_dw) 253
pfc_Ruler event (u_dw) 253
pfc_SelectAll event (u_dw) 254
pfc_SortDlg event (u_dw) 254
pfc_Undo event (u_dw) 254
pfc_Update event (u_dw) 255
pfc_UpdatePrep event (u_dw) 255
pfc_UpdatesPending event (u_dw) 255
pfc_Validation event (u_dw) 256
pfc_Values event (u_dw) 256
pfc_Zoom event (u_dw) 256
RButtonDown event (u_dw) 257
RButtonUp event (u_dw) 257

Resize event (u_dw) 257
RetrieveEnd event (u_dw) 257
RetrieveStart event (u_dw) 258
RowFocusChanged event (u_dw) 258
SQLPreview event (u_dw) 258
u_dw 258
of_AcceptText function (u_dw) 260
of_AcceptText function (u_dw) 260
of_CheckRequired function (u_dw) 260
of_CheckRequired function (u_dw) 261
of_GetParentWindow function (u_dw) 261
of_GetParentWindow function (u_dw) 262
of_GetUpdateable function (u_dw) 262
of_IsRoot function (u_dw) 262
of_IsRoot function (u_dw) 263
of_IsSharedProperty function (u_dw) 263
of_IsSharedProperty function (u_dw) 264
of_IsUpdateable function (u_dw) 264
of_IsUpdateable function (u_dw) 264
of_MessageBox function (u_dw) 265
of_MessageBox function (u_dw) 265
of_PostUpdate function (u_dw) 266
of_PostUpdate function (u_dw) 266
of_Reset function (u_dw) 266
of_Reset function (u_dw) 267
of_Retrieve function (u_dw) 267
of_Retrieve function (u_dw) 268
of_SetBase function (u_dw) 268
of_SetBase function (u_dw) 268
of_SetDropDownCalculator function (u_dw) 268
of_SetDropDownCalculator function (u_dw) 269
of_SetDropDownCalendar function (u_dw) 269
of_SetDropDownCalendar function (u_dw) 270
of_SetDropDownSearch function (u_dw) 270
of_SetDropDownSearch function (u_dw) 270
of_SetFilter function (u_dw) 271
of_SetFilter function (u_dw) 271
of_SetFind function (u_dw) 271
of_SetFind function (u_dw) 272
of_SetLinkage function (u_dw) 272
of_SetLinkage function (u_dw) 272
of_SetMultiTable function (u_dw) 273
of_SetMultiTable function (u_dw) 273
of_SetPrintPreview function (u_dw) 273
of_SetPrintPreview function (u_dw) 274
of_SetProperty function (u_dw) 274
of_SetProperty function (u_dw) 274
of_SetQuerymode function (u_dw) 275
of_SetQuerymode function (u_dw) 275
of_SetReport function (u_dw) 275

of_SetReport function (u_dw) 276
of_SetReqColumn function (u_dw) 276
of_SetReqColumn function (u_dw) 277
of_SetResize function (u_dw) 277
of_SetResize function (u_dw) 277
of_SetRowManager function (u_dw) 277
of_SetRowManager function (u_dw) 278
of_SetRowSelect function (u_dw) 278
of_SetRowSelect function (u_dw) 279
of_SetSharedProperty function (u_dw) 279
of_SetSharedProperty function (u_dw) 279
of_SetSort function (u_dw) 280
of_SetSort function (u_dw) 280
of_SetTransObject function (u_dw) 280
of_SetTransObject function (u_dw) 281
of_SetUpdateable function (u_dw) 281
of_SetUpdateable function (u_dw) 281
of_SetUpdateRequestor function (u_dw) 282
of_SetUpdateRequestor function (u_dw) 282
of_Update function (u_dw) 282
Syntax 1 Update data, optionally controlling update type 283
Syntax 1 Update data, optionally controlling update type 283
Syntax 2 Update data passing the requestor object 284
Syntax 2 Update data passing the requestor object 284
of_UpdatePrep function (u_dw) 285
of_UpdatePrep function (u_dw) 285
of_UpdatesPending function (u_dw) 286
of_UpdatesPending function (u_dw) 286
of_Validation function (u_dw) 286
of_Validation function (u_dw) 287
u_em 287
u_em 288
u_em 288
u_em 289
ContextMenu event (u_em) 289
Destructor event (u_em) 290
GetFocus event (u_em) 290
pfc_Clear event (u_em) 290
pfc_Copy event (u_em) 290
pfc_Cut event (u_em) 291
pfc_DDCalculator event (u_em) 291
pfc_DDCalculator event (u_em) 291
pfc_DDCalendar event (u_em) 292
pfc_DDCalendar event (u_em) 292
pfc_Paste event (u_em) 292
pfc_PreRmbMenu event (u_em) 292
pfc_SelectAll event (u_em) 293
pfc_Undo event (u_em) 293
RButtonUp event (u_em) 293
u_em 294

of_GetParentWindow function (u_em) 294
of_GetParentWindow function (u_em) 294
of_MessageBox function (u_em) 295
of_MessageBox function (u_em) 296
of_SetDropDownCalculator function (u_em) 296
of_SetDropDownCalculator function (u_em) 296
of_SetDropDownCalendar function (u_em) 297
of_SetDropDownCalendar function (u_em) 297
u_gbÀ 297
u_gr 298
u_gr 298
u_gr 299
GetFocus event (u_gr) 299
u_gr 299
of_GetParentWindow function (u_gr) 299
of_GetParentWindow function (u_gr) 300
of_MessageBox function (u_gr) 300
of_MessageBox function (u_gr) 301
u_hpb 301
u_hpb 302
u_hpb 302
GetFocus event (u_hpb) 302
u_hpb 302
of_GetParentWindow function (u_hpb) 303
of_GetParentWindow function (u_hpb) 303
of_MessageBox function (u_hpb) 303
of_MessageBox function (u_hpb) 304
u_hsb 305
u_hsb 305
u_hsb 305
GetFocus event (u_hsb) 306
u_hsb 306
of_GetParentWindow function (u_hsb) 306
of_GetParentWindow function (u_hsb) 307
of_MessageBox function (u_hsb) 307
of_MessageBox function (u_hsb) 308
u_htb 308
u_htb 309
u_htb 309
GetFocus event (u_htb) 309
u_htb 309
of_GetParentWindow function (u_htb) 310
of_GetParentWindow function (u_htb) 310
of_MessageBox function (u_htb) 310
of_MessageBox function (u_htb) 311
u_lb 312
u_lb 312
u_lb 312
GetFocus event (u_lb) 313
pfc_InvertSelection event (u_lb) 313

pfc_SelectAll event (u_lb) 313
u_lb 314
of_GetParentWindow function (u_lb) 314
of_GetParentWindow function (u_lb) 314
of_GetSelected function (u_lb) 315
of_GetSelected function (u_lb) 315
of_MessageBox function (u_lb) 315
of_MessageBox function (u_lb) 316
u_lvs 317
u_lvs 319
u_lvs 319
u_lvs 320
ColumnClick event (u_lvs) 321
ContextMenu event (u_lvs) 321
Destructor event (u_lvs) 321
EndLabelEdit event (u_lvs) 322
GetFocus event (u_lvs) 322
KeyDown event (u_lvs) 322
pfc_AcceptText event (u_lvs) 323
pfc_AddAll event (u_lvs) 323
pfc_AddAll event (u_lvs) 323
pfc_AddItem event (u_lvs) 324
pfc_AddItem event (u_lvs) 324
pfc_DeleteItem event (u_lvs) 324
pfc_DeleteItem event (u_lvs) 325
pfc_InsertItem event (u_lvs) 325
pfc_InsertItem event (u_lvs) 325
pfc_InvertSelection event (u_lvs) 326
pfc_NewItem event (u_lvs) 326
pfc_Populate event (u_lvs) 326
pfc_Populate event (u_lvs) 327
pfc_PostUpdate event (u_lvs) 327
pfc_PreDeleteItem event (u_lvs) 328
pfc_PreInsertItem event (u_lvs) 328
pfc_PreRefreshItem event (u_lvs) 328
pfc_PreRmbMenu event (u_lvs) 329
pfc_Properties event (u_lvs) 329
pfc_Refresh event (u_lvs) 330
pfc_Refresh event (u_lvs) 330
pfc_RefreshItem event (u_lvs) 330
pfc_RefreshItem event (u_lvs) 330
pfc_RenameItem event (u_lvs) 331
pfc_Retrieve event (u_lvs) 331
pfc_Retrieve event (u_lvs) 331
pfc_SelectAll event (u_lvs) 332
pfc_SetItemAttributes event (u_lvs) 332
pfc_Undo event (u_lvs) 332
pfc_Update event (u_lvs) 333
pfc_UpdatePrep event (u_lvs) 333
pfc_UpdatesPending event (u_lvs) 333

pfc_Validation event (u_lvs) 334
RButtonUp event (u_lvs) 334
RightClicked event (u_lvs) 335
Sort event (u_lvs) 335
u_lvs 335
of_AcceptText function (u_lvs) 336
of_AcceptText function (u_lvs) 337
of_AddItem function (u_lvs) 337
of_AddItem function (u_lvs) 338
of_CanUndo function (u_lvs) 338
of_CanUndo function (u_lvs) 338
of_GetColumnInfo function (u_lvs) 339
of_GetColumnInfo function (u_lvs) 339
of_GetInfo function (u_lvs) 339
of_GetInfo function (u_lvs) 340
of_GetObjects function (u_lvs) 340
of_GetObjects function (u_lvs) 341
of_GetParentWindow function (u_lvs) 341
of_GetParentWindow function (u_lvs) 341
of_GetRow function (u_lvs) 342
of_GetRow function (u_lvs) 342
of_GetUpdateRequestor function (u_lvs) 342
of_InsertItem function (u_lvs) 343
Syntax 1 Insert an item from a DataStore 343
Syntax 1 Insert an item from a DataStore 344
Syntax 2 Insert an item from an array 344
Syntax 2 Insert an item from an array 345
of_IsAlwaysValidate function (u_lvs) 345
of_IsAlwaysValidate function (u_lvs) 345
of_IsRMBMenu function (u_lvs) 346
of_IsRMBMenu function (u_lvs) 346
of_IsUpdateable function (u_lvs) 346
of_IsUpdateable function (u_lvs) 347
of_MessageBox function (u_lvs) 347
of_MessageBox function (u_lvs) 348
of_Populate function (u_lvs) 348
of_Populate function (u_lvs) 349
of_PostUpdate function (u_lvs) 349
of_PostUpdate function (u_lvs) 349
of_Reset function (u_lvs) 350
of_Reset function (u_lvs) 350
of_Retrieve function (u_lvs) 350
of_Retrieve function (u_lvs) 351
of_SetAlwaysValidate function (u_lvs) 351
of_SetAlwaysValidate function (u_lvs) 351
of_SetBase function (u_lvs) 351
of_SetBase function (u_lvs) 352
of_SetDataSource function (u_lvs) 352
of_SetDataSource function (u_lvs) 353
of_SetLogicalUnitOfWork function (u_lvs) 353

of_SetLogicalUnitOfWork function (u_lvs) 353
of_SetRMBMenu function (u_lvs) 354
of_SetRMBMenu function (u_lvs) 354
of_SetSort function (u_lvs) 354
of_SetSort function (u_lvs) 355
of_SetUpdateable function (u_lvs) 355
of_SetUpdateable function (u_lvs) 355
of_SetUpdateRequestor function (u_lvs) 356
of_SetUpdateRequestor function (u_lvs) 356
of_Update function (u_lvs) 356
of_Update function (u_lvs) 357
of_UpdatePrep function (u_lvs) 357
of_UpdatePrep function (u_lvs) 358
of_UpdatesPending function (u_lvs) 358
of_UpdatesPending function (u_lvs) 358
of_Validation function (u_lvs) 359
of_Validation function (u_lvs) 359
u_mle 359
u_mle 360
u_mle 360
u_mle 361
ContextMenu event (u_mle) 361
GetFocus event (u_mle) 362
pfc_Clear event (u_mle) 362
pfc_Copy event (u_mle) 362
pfc_Cut event (u_mle) 362
pfc_Paste event (u_mle) 363
pfc_PreRmbMenu event (u_mle) 363
pfc_SelectAll event (u_mle) 363
pfc_Undo event (u_mle) 364
RButtonUp event (u_mle) 364
u_mle 364
of_GetParentWindow function (u_mle) 364
of_GetParentWindow function (u_mle) 365
of_MessageBox function (u_mle) 365
of_MessageBox function (u_mle) 366
u_oc 366
u_oc 367
u_oc 367
u_oc 368
ContextMenu event (u_oc) 368
GetFocus event (u_oc) 369
pfc_Clear event (u_oc) 369
pfc_Copy event (u_oc) 369
pfc_Cut event (u_oc) 370
pfc_EditObject event (u_oc) 370
pfc_InsertObject event (u_oc) 370
pfc_OpenObject event (u_oc) 371
pfc_Paste event (u_oc) 371
pfc_PasteSpecial event (u_oc) 372

pfc_PreRmbMenu event (u_oc) 372
pfc_UpdateLinks event (u_oc) 373
RButtonUp event (u_oc) 373
u_oc 373
of_GetParentWindow function (u_oc) 373
of_GetParentWindow function (u_oc) 374
of_MessageBox function (u_oc) 374
of_MessageBox function (u_oc) 375
u_p 375
u_p 376
u_p 376
GetFocus event (u_p) 376
u_p 377
of_GetParentWindow function (u_p) 377
of_GetParentWindow function (u_p) 377
of_MessageBox function (u_p) 378
of_MessageBox function (u_p) 378
u_pb 379
u_pb 379
u_pb 380
GetFocus event (u_pb) 380
u_pb 380
of_GetParentWindow function (u_pb) 380
of_GetParentWindow function (u_pb) 381
of_MessageBox function (u_pb) 381
of_MessageBox function (u_pb) 382
u_phl 382
u_phl 383
u_phl 383
GetFocus event (u_phl) 383
u_phl 383
of_GetParentWindow function (u_phl) 384
of_GetParentWindow function (u_phl) 384
of_MessageBox function (u_phl) 384
of_MessageBox function (u_phl) 385
u_plb 386
u_plb 386
u_plb 386
GetFocus event (u_plb) 387
pfc_InvertSelection event (u_plb) 387
pfc_SelectAll event (u_plb) 387
u_plb 387
of_GetParentWindow function (u_plb) 388
of_GetParentWindow function (u_plb) 388
of_GetSelected function (u_plb) 389
of_GetSelected function (u_plb) 389
of_MessageBox function (u_plb) 389
of_MessageBox function (u_plb) 390
u_rb 390
u_rb 391

u_rb 391
GetFocus event (u_rb) 391
u_rb 392
of_GetParentWindow function (u_rb) 392
of_GetParentWindow function (u_rb) 392
of_MessageBox function (u_rb) 393
of_MessageBox function (u_rb) 394
u_rte 394
u_rte 395
u_rte 395
u_rte 396
Destructor event (u_rte) 397
FileExists event (u_rte) 398
GetFocus event (u_rte) 398
pfc_Clear event (u_rte) 398
pfc_Copy event (u_rte) 398
pfc_Cut event (u_rte) 399
pfc_FindDlg event (u_rte) 399
pfc_FirstPage event (u_rte) 399
pfc_InsertFile event (u_rte) 400
pfc_InsertPicture event (u_rte) 400
pfc_LastPage event (u_rte) 400
pfc_NextPage event (u_rte) 401
pfc_Open event (u_rte) 401
pfc_Paste event (u_rte) 401
pfc_PrePrintDlg event (u_rte) 402
pfc_PrePrintDlg event (u_rte) 402
pfc_PreRmbMenu event (u_rte) 402
pfc_PreviousPage event (u_rte) 403
pfc_Print event (u_rte) 403
pfc_PrintDlg event (u_rte) 403
pfc_PrintImmediate event (u_rte) 404
pfc_PrintPreview event (u_rte) 404
pfc_ReplaceDlg event (u_rte) 404
pfc_Ruler event (u_rte) 405
pfc_Save event (u_rte) 405
pfc_SaveAs event (u_rte) 405
pfc_SelectAll event (u_rte) 406
pfc_Undo event (u_rte) 406
PrintHeader event (u_rte) 406
RButtonUp event (u_rte) 406
u_rte 407
of_GetContinuousPages function (u_rte) 408
of_GetContinuousPages function (u_rte) 408
of_GetFileName function (u_rte) 408
of_GetFileName function (u_rte) 409
of_GetIgnoreFileExists function (u_rte) 409
of_GetIgnoreFileExists function (u_rte) 409
of_GetPageInputField function (u_rte) 410
of_GetPageInputField function (u_rte) 410

of_GetParentWindow function (u_rte) 410
of_GetParentWindow function (u_rte) 411
of_GetStartPageNumber function (u_rte) 411
of_GetStartPageNumber function (u_rte) 412
of_GetTextStyle function (u_rte) 412
of_GetTextStyle function (u_rte) 412
of_InsertDocument function (u_rte) 413
of_InsertDocument function (u_rte) 413
of_InsertPicture function (u_rte) 414
of_InsertPicture function (u_rte) 414
of_MessageBox function (u_rte) 414
of_MessageBox function (u_rte) 415
of_OpenDocument function (u_rte) 415
of_OpenDocument function (u_rte) 416
of_SetContinuousPages function (u_rte) 416
of_SetContinuousPages function (u_rte) 417
of_SetFileName function (u_rte) 417
of_SetFileName function (u_rte) 417
of_SetFind function (u_rte) 418
of_SetFind function (u_rte) 418
of_SetIgnoreFileExists function (u_rte) 418
of_SetIgnoreFileExists function (u_rte) 419
of_SetPageInputField function (u_rte) 419
of_SetPageInputField function (u_rte) 420
of_SetStartPageNumber function (u_rte) 420
of_SetStartPageNumber function (u_rte) 420
of_SetTextStyleBold function (u_rte) 421
of_SetTextStyleBold function (u_rte) 421
of_SetTextStyleItalic function (u_rte) 421
of_SetTextStyleItalic function (u_rte) 422
of_SetTextStyleStrikeout function (u_rte) 422
of_SetTextStyleStrikeout function (u_rte) 422
of_SetTextStyleSubscript function (u_rte) 423
of_SetTextStyleSubscript function (u_rte) 423
of_SetTextStyleSuperscript function (u_rte) 423
of_SetTextStyleSuperscript function (u_rte) 424
of_SetTextStyleUnderline function (u_rte) 424
of_SetTextStyleUnderline function (u_rte) 425
u_sle 425
u_sle 426
u_sle 426
u_sle 426
ContextMenu event (u_sle) 427
GetFocus event (u_sle) 427
pfc_Clear event (u_sle) 427
pfc_Copy event (u_sle) 427
pfc_Cut event (u_sle) 428
pfc_Paste event (u_sle) 428
pfc_PreRmbMenu event (u_sle) 428
pfc_SelectAll event (u_sle) 429

pfc_Undo event (u_sle) 429
RButtonUp event (u_sle) 429
u_sle 430
of_GetParentWindow function (u_sle) 430
of_GetParentWindow function (u_sle) 430
of_MessageBox function (u_sle) 431
of_MessageBox function (u_sle) 431
u_st 432
u_st 432
u_st 433
u_st 433
GetFocus event (u_st) 433
u_st 433
of_GetParentWindow function (u_st) 433
of_GetParentWindow function (u_st) 434
of_MessageBox function (u_st) 434
of_MessageBox function (u_st) 435
u_sth 435
u_sth 436
u_sth 436
GetFocus event (u_sth) 436
u_sth 437
of_GetParentWindow function (u_sth) 437
of_GetParentWindow function (u_sth) 437
of_MessageBox function (u_sth) 438
of_MessageBox function (u_sth) 438
u_tab 439
u_tab 440
u_tab 440
u_tab 440
pfc_AcceptText event (u_tab) 441
pfc_PostUpdate event (u_tab) 441
pfc_Update event (u_tab) 442
pfc_UpdatePrep event (u_tab) 442
pfc_UpdatesPending event (u_tab) 443
pfc_Validation event (u_tab) 443
Resize event (u_tab) 443
u_tab 444
of_AcceptText function (u_tab) 445
of_AcceptText function (u_tab) 445
of_GetInfo function (u_tab) 445
of_GetInfo function (u_tab) 446
of_GetParentWindow function (u_tab) 446
of_GetParentWindow function (u_tab) 447
of_GetUpdateObjects function (u_tab) 447
of_GetUpdateObjects function (u_tab) 447
of_IsAlwaysValidate function (u_tab) 448
of_IsAlwaysValidate function (u_tab) 448
of_IsUpdateable function (u_tab) 448
of_IsUpdateable function (u_tab) 449

of_MessageBox function (u_tab) 449
of_MessageBox function (u_tab) 450
of_PostUpdate function (u_tab) 450
of_PostUpdate function (u_tab) 451
of_SetAlwaysValidate function (u_tab) 451
of_SetAlwaysValidate function (u_tab) 451
of_SetLogicalUnitOfWork function (u_tab) 452
of_SetLogicalUnitOfWork function (u_tab) 452
of_SetResize function (u_tab) 452
of_SetResize function (u_tab) 453
of_SetUpdateable function (u_tab) 453
of_SetUpdateable function (u_tab) 453
of_SetUpdateObjects function (u_tab) 454
of_SetUpdateRequestor function (u_tab) 454
of_SetUpdateRequestor function (u_tab) 454
of_Update function (u_tab) 455
of_Update function (u_tab) 455
of_UpdatePrep function (u_tab) 456
of_UpdatePrep function (u_tab) 456
of_UpdatesPending function (u_tab) 456
of_UpdatesPending function (u_tab) 457
of_Validation function (u_tab) 457
of_Validation function (u_tab) 458
u_tvs 458
u_tvs 460
u_tvs 461
u_tvs 461
BeginDrag event (u_tvs) 463
Destructor event (u_tvs) 463
DragDrop event (u_tvs) 463
EndLabelEdit event (u_tvs) 463
GetFocus event (u_tvs) 464
KeyDown event (u_tvs) 464
ItemExpanding event (u_tvs) 464
pfc_AcceptText event (u_tvs) 464
pfc_AddAll event (u_tvs) 465
pfc_AddAll event (u_tvs) 465
pfc_AddItem event (u_tvs) 466
pfc_AddItem event (u_tvs) 466
pfc_DeleteItem event (u_tvs) 466
pfc_DeleteItem event (u_tvs) 467
pfc_InsertItem event (u_tvs) 467
pfc_InsertItem event (u_tvs) 468
pfc_NewItem event (u_tvs) 468
pfc_Populate event (u_tvs) 468
pfc_Populate event (u_tvs) 469
pfc_PostUpdate event (u_tvs) 469
pfc_PreDeleteItem event (u_tvs) 469
pfc_PreInsertItem event (u_tvs) 470
pfc_PreRefreshItem event (u_tvs) 470

pfc_PreRefreshLevel event (u_tvs) 471
pfc_PreRmbMenu event (u_tvs) 471
pfc_Properties event (u_tvs) 471
pfc_RefreshItem event (u_tvs) 472
pfc_RefreshItem event (u_tvs) 472
pfc_RefreshLevel event (u_tvs) 472
pfc_RefreshLevel event (u_tvs) 473
pfc_RenameItem event (u_tvs) 473
pfc_Retrieve event (u_tvs) 473
pfc_Retrieve event (u_tvs) 474
pfc_SearchCompare event (u_tvs) 474
pfc_SetItemAttributes event (u_tvs) 475
pfc_Undo event (u_tvs) 475
pfc_Update event (u_tvs) 475
pfc_UpdatePrep event (u_tvs) 476
pfc_UpdatesPending event (u_tvs) 476
pfc_Validation event (u_tvs) 477
RightClicked event (u_tvs) 477
u_tvs 478
of_AcceptText function (u_tvs) 479
of_AcceptText function (u_tvs) 479
of_AddItem function (u_tvs) 480
of_AddItem function (u_tvs) 480
of_CanUndo function (u_tvs) 481
of_CanUndo function (u_tvs) 481
of_GetInfo function (u_tvs) 481
of_GetInfo function (u_tvs) 482
of_GetNextLevel function (u_tvs) 482
of_GetNextLevel function (u_tvs) 483
of_GetObjects function (u_tvs) 483
of_GetObjects function (u_tvs) 483
of_GetParentWindow function (u_tvs) 484
of_GetParentWindow function (u_tvs) 484
of_GetUpdateRequestor function (u_tvs) 484
of_InsertItem function (u_tvs) 485
Syntax 1 Insert an item from a DataStore 485
Syntax 1 Insert an item from a DataStore 486
Syntax 2 Insert an item from an array 486
Syntax 2 Insert an item from an array 487
of_IsAlwaysValidate function (u_tvs) 487
of_IsAlwaysValidate function (u_tvs) 488
of_IsRMBMenu function (u_tvs) 488
of_IsRMBMenu function (u_tvs) 488
of_IsUpdateable function (u_tvs) 489
of_IsUpdateable function (u_tvs) 489
of_MessageBox function (u_tvs) 489
of_MessageBox function (u_tvs) 490
of_Populate function (u_tvs) 490
of_Populate function (u_tvs) 491
of_PostUpdate function (u_tvs) 491

of_PostUpdate function (u_tvs) 491
of_Reset function (u_tvs) 492
of_Reset function (u_tvs) 492
of_Retrieve function (u_tvs) 492
of_Retrieve function (u_tvs) 493
of_SetAlwaysValidate function (u_tvs) 493
of_SetAlwaysValidate function (u_tvs) 494
of_SetBase function (u_tvs) 494
of_SetBase function (u_tvs) 494
of_SetLevelSource function (u_tvs) 495
of_SetLevelSource function (u_tvs) 495
of_SetLogicalUnitOfWork function (u_tvs) 495
of_SetLogicalUnitOfWork function (u_tvs) 496
of_SetPrint function (u_tvs) 496
of_SetPrint function (u_tvs) 496
of_SetRMBMenu function (u_tvs) 497
of_SetRMBMenu function (u_tvs) 497
of_SetUpdateable function (u_tvs) 497
of_SetUpdateable function (u_tvs) 498
of_SetUpdateRequestor function (u_tvs) 498
of_SetUpdateRequestor function (u_tvs) 498
of_Update function (u_tvs) 499
of_Update function (u_tvs) 499
of_UpdatePrep function (u_tvs) 499
of_UpdatePrep function (u_tvs) 500
of_UpdatesPending function (u_tvs) 500
of_UpdatesPending function (u_tvs) 501
of_Validation function (u_tvs) 501
of_Validation function (u_tvs) 501
u_vpb 502
u_vpb 502
u_vpb 503
GetFocus event (u_vpb) 503
u_vpb 503
of_GetParentWindow function (u_vpb) 503
of_GetParentWindow function (u_vpb) 504
of_MessageBox function (u_vpb) 504
of_MessageBox function (u_vpb) 505
u_vsb 505
u_vsb 506
u_vsb 506
GetFocus event (u_vsb) 506
u_vsb 506
of_GetParentWindow function (u_vsb) 507
of_GetParentWindow function (u_vsb) 507
of_MessageBox function (u_vsb) 507
of_MessageBox function (u_vsb) 508
u_vtb 509
u_vtb 509
u_vtb 509

GetFocus event (u_vtb) 510
u_vtb 510
of_GetParentWindow function (u_vtb) 510
of_GetParentWindow function (u_vtb) 511
of_MessageBox function (u_vtb) 511
of_MessageBox function (u_vtb) 512
Custom Visual User Objects 512
u_base 512
u_base 513
u_base 513
u_base 514
u_base 514
Destructor event (u_base) 515
pfc_AcceptText event (u_base) 515
pfc_PostUpdate event (u_base) 515
pfc_Update event (u_base) 516
pfc_UpdatePrep event (u_base) 516
pfc_UpdatesPending event (u_base) 517
pfc_Validation event (u_base) 517
Resize event (u_base) 518
u_base 518
of_AcceptText function (u_base) 519
of_AcceptText function (u_base) 519
of_GetInfo function (u_base) 520
of_GetInfo function (u_base) 520
of_GetParentWindow function (u_base) 520
of_GetParentWindow function (u_base) 521
of_GetUpdateObjects function (u_base) 521
of_GetUpdateObjects function (u_base) 522
of_IsAlwaysValidate function (u_base) 522
of_IsAlwaysValidate function (u_base) 522
of_IsUpdateable function (u_base) 523
of_IsUpdateable function (u_base) 523
of_MessageBox function (u_base) 523
of_MessageBox function (u_base) 524
of_PostUpdate function (u_base) 524
of_PostUpdate function (u_base) 525
of_SetAlwaysValidate function (u_base) 525
of_SetAlwaysValidate function (u_base) 525
of_SetLogicalUnitOfWork function (u_base) 526
of_SetLogicalUnitOfWork function (u_base) 526
of_SetResize function (u_base) 526
of_SetResize function (u_base) 527
of_SetUpdateable function (u_base) 527
of_SetUpdateable function (u_base) 527
of_SetUpdateObjects function (u_base) 528
of_SetUpdateObjects function (u_base) 528
of_SetUpdateRequestor function (u_base) 529
of_Update function (u_base) 529
of_Update function (u_base) 530

of_UpdatePrep function (u_base) 530
of_UpdatePrep function (u_base) 530
of_UpdatesPending function (u_base) 531
of_UpdatesPending function (u_base) 531
of_Validation function (u_base) 532
of_Validation function (u_base) 532
u_calculator 532
u_calculator 534
u_calculator 534
u_calculator 535
ButtonClicked event (u_calculator) 536
Constructor event (u_calculator) 536
Destructor event (u_calculator) 536
GetFocus event (u_calculator) 536
Key event (u_calculator) 537
LoseFocus event (u_calculator) 537
pfc_DropDown event (u_calculator) 537
u_calculator 538
of_ButtonClicked function (u_calculator) 539
of_ButtonClicked function (u_calculator) 539
of_DropDown function (u_calculator) 539
of_DropDown function (u_calculator) 540
of_GetInfo function (u_calculator) 540
of_GetInfo function (u_calculator) 541
of_GetPropertyInfo function (u_calculator) 541
of_GetPropertyInfo function (u_calculator) 541
of_GetRegisterable function (u_calculator) 542
of_GetRegisterable function (u_calculator) 542
of_GetRegistered function (u_calculator) 543
of_GetRegistered function (u_calculator) 543
of_GetRegisteredStyle function (u_calculator) 543
of_GetRegisteredStyle function (u_calculator) 544
of_IsCloseOnClick function (u_calculator) 544
of_IsCloseOnClick function (u_calculator) 545
of_IsDropDown function (u_calculator) 545
of_IsDropDown function (u_calculator) 546
of_IsInitialValue function (u_calculator) 546
of_IsInitialValue function (u_calculator) 546
of_IsNumericType function (u_calculator) 547
of_IsNumericType function (u_calculator) 547
of_IsOperator function (u_calculator) 548
of_IsOperator function (u_calculator) 548
of_IsRegistered function (u_calculator) 548
of_IsRegistered function (u_calculator) 549
of_PerformMath function (u_calculator) 549
of_PerformMath function (u_calculator) 550
of_RedirectFocus function (u_calculator) 550
of_RedirectFocus function (u_calculator) 550
of_Register function (u_calculator) 551
Syntax 1 Register columns with an optional display style 551

Syntax 1 Register columns with an optional display style 552
Syntax 2 Register columns with a display style 552
Syntax 2 Register columns with a display style 553
of_Reset function (u_calculator) 553
of_Reset function (u_calculator) 554
of_SetCloseOnClick function (u_calculator) 554
of_SetCloseOnClick function (u_calculator) 554
of_SetDropDown function (u_calculator) 555
of_SetDropDown function (u_calculator) 555
of_SetFocusOnRequestor function (u_calculator) 555
of_SetFocusOnRequestor function (u_calculator) 556
of_SetInitialValue function (u_calculator) 556
of_SetInitialValue function (u_calculator) 557
of_SetRequestor function (u_calculator) 557
of_SetRequestor function (u_calculator) 558
of_SetValue function (u_calculator) 558
of_SetValue function (u_calculator) 558
of_SetValueOnRequestor function (u_calculator) 559
of_SetValueOnRequestor function (u_calculator) 559
of_UnRegister function (u_calculator) 560
of_UnRegister function (u_calculator) 560
u_calendar 560
u_calendar 563
u_calendar 563
u_calendar 565
ButtonClicked event (u_calendar) 565
Clicked event (u_calendar) 566
Constructor event (u_calendar) 566
Destructor event (u_calendar) 566
DoubleClicked event (u_calendar) 566
GetFocus event (u_calendar) 567
Key event (u_calendar) 567
LoseFocus event (u_calendar) 567
pfc_DropDown event (u_calendar) 568
pfc_NextDay event (u_calendar) 568
pfc_NextMonth event (u_calendar) 568
pfc_NextWeek event (u_calendar) 569
pfc_PrevDay event (u_calendar) 569
pfc_PrevMonth event (u_calendar) 569
pfc_PrevWeek event (u_calendar) 570
u_calendar 570
of_DrawMonth function (u_calendar) 572
of_DrawMonth function (u_calendar) 572
of_DropDown function (u_calendar) 572
of_DropDown function (u_calendar) 573
of_GetHoliday function (u_calendar) 573
of_GetHoliday function (u_calendar) 574
of_GetHolidayColor function (u_calendar) 574
of_GetHolidayColor function (u_calendar) 575
of_GetInfo function (u_calendar) 575

of_GetInfo function (u_calendar) 575
of_GetMarkedDay function (u_calendar) 576
of_GetMarkedDay function (u_calendar) 576
of_GetMarkedDayColor function (u_calendar) 576
of_GetMarkedDayColor function (u_calendar) 577
of_GetPropertyInfo function (u_calendar) 577
of_GetPropertyInfo function (u_calendar) 578
of_GetRegisterable function (u_calendar) 578
of_GetRegisterable function (u_calendar) 579
of_GetRegistered function (u_calendar) 579
of_GetRegistered function (u_calendar) 579
of_GetRegisteredStyle function (u_calendar) 580
of_GetRegisteredStyle function (u_calendar) 580
of_GetSaturdayColor function (u_calendar) 580
of_GetSaturdayColor function (u_calendar) 581
of_GetSundayColor function (u_calendar) 581
of_GetSundayColor function (u_calendar) 581
of_IsAlwaysRedraw function (u_calendar) 582
of_IsAlwaysRedraw function (u_calendar) 582
of_IsCloseOnClick function (u_calendar) 582
of_IsCloseOnClick function (u_calendar) 583
of_IsCloseOnDClick function (u_calendar) 583
of_IsCloseOnDClick function (u_calendar) 584
of_IsDateType function (u_calendar) 584
of_IsDateType function (u_calendar) 584
of_IsHolidayBold function (u_calendar) 585
of_IsHolidayBold function (u_calendar) 585
of_IsInitialValue function (u_calendar) 586
of_IsInitialValue function (u_calendar) 586
of_IsMarkedDayBold function (u_calendar) 586
of_IsMarkedDayBold function (u_calendar) 587
of_IsRegistered function (u_calendar) 587
of_IsRegistered function (u_calendar) 588
of_IsSaturdayBold function (u_calendar) 588
of_IsSaturdayBold function (u_calendar) 588
of_IsSundayBold function (u_calendar) 589
of_IsSundayBold function (u_calendar) 589
of_RedirectFocus function (u_calendar) 589
of_RedirectFocus function (u_calendar) 590
of_Register function (u_calendar) 590
Syntax 1 Register columns with an optional display style 590
Syntax 1 Register columns with an optional display style 591
Syntax 2 Register columns with a display style 591
Syntax 2 Register columns with a display style 592
of_Reset function (u_calendar) 592
of_Reset function (u_calendar) 593
of_SetAlwaysRedraw function (u_calendar) 593
of_SetAlwaysRedraw function (u_calendar) 594
of_SetCloseOnClick function (u_calendar) 594
of_SetCloseOnClick function (u_calendar) 594

of_SetCloseOnDClick function (u_calendar) 595
of_SetCloseOnDClick function (u_calendar) 595
of_SetDate function (u_calendar) 595
of_SetDate function (u_calendar) 596
of_SetDateFormat function (u_calendar) 596
of_SetDateFormat function (u_calendar) 597
of_SetDropDown function (u_calendar) 597
of_SetDropDown function (u_calendar) 598
of_SetFocusOnRequestor function (u_calendar) 598
of_SetFocusOnRequestor function (u_calendar) 598
of_SetHoliday function (u_calendar) 599
of_SetHoliday function (u_calendar) 599
of_SetHolidayBold function (u_calendar) 600
of_SetHolidayBold function (u_calendar) 600
of_SetHolidayColor function (u_calendar) 600
of_SetHolidayColor function (u_calendar) 601
of_SetInitialValue function (u_calendar) 601
of_SetInitialValue function (u_calendar) 602
of_SetMarkedDay function (u_calendar) 602
of_SetMarkedDay function (u_calendar) 602
of_SetMarkedDayBold function (u_calendar) 603
of_SetMarkedDayBold function (u_calendar) 603
of_SetMarkedDayColor function (u_calendar) 603
of_SetMarkedDayColor function (u_calendar) 604
of_SetRequestor function (u_calendar) 604
of_SetRequestor function (u_calendar) 605
of_SetSaturdayBold function (u_calendar) 605
of_SetSaturdayBold function (u_calendar) 606
of_SetSaturdayColor function (u_calendar) 606
of_SetSaturdayColor function (u_calendar) 606
of_SetSundayBold function (u_calendar) 607
of_SetSundayBold function (u_calendar) 607
of_SetSundayColor function (u_calendar) 607
of_SetSundayColor function (u_calendar) 608
of_UnRegister function (u_calendar) 608
of_UnRegister function (u_calendar) 608
u_progressbar 609
u_progressbar 611
u_progressbar 611
u_progressbar 612
Constructor event (u_progressbar) 612
RButtonDown event (u_progressbar) 613
u_progressbar 613
of_GetBackColor function (u_progressbar) 614
of_GetBackColor function (u_progressbar) 615
of_GetCurrentText function (u_progressbar) 615
of_GetCurrentText function (u_progressbar) 615
of_GetDisplayStyle function (u_progressbar) 616
of_GetDisplayStyle function (u_progressbar) 616
of_GetFillColor function (u_progressbar) 616

of_GetFillColor function (u_progressbar) 617
of_GetFillStyle function (u_progressbar) 617
of_GetFillStyle function (u_progressbar) 618
of_GetInfo function (u_progressbar) 618
of_GetInfo function (u_progressbar) 618
of_GetMaximum function (u_progressbar) 619
of_GetMaximum function (u_progressbar) 619
of_GetMessageText function (u_progressbar) 619
of_GetMessageText function (u_progressbar) 620
of_GetMinimum function (u_progressbar) 620
of_GetMinimum function (u_progressbar) 620
of_GetPctComplete function (u_progressbar) 621
of_GetPctComplete function (u_progressbar) 621
of_GetPosition function (u_progressbar) 622
of_GetPosition function (u_progressbar) 622
of_GetStep function (u_progressbar) 622
of_GetStep function (u_progressbar) 623
of_GetTextColor function (u_progressbar) 623
of_GetTextColor function (u_progressbar) 623
of_Increment function (u_progressbar) 624
of_Increment function (u_progressbar) 624
of_IsAutoReset function (u_progressbar) 624
of_IsAutoReset function (u_progressbar) 625
of_Reset function (u_progressbar) 625
of_Reset function (u_progressbar) 625
of_SetAutoReset function (u_progressbar) 626
of_SetAutoReset function (u_progressbar) 626
of_SetBackColor function (u_progressbar) 626
of_SetBackColor function (u_progressbar) 627
of_SetDisplayStyle function (u_progressbar) 627
of_SetDisplayStyle function (u_progressbar) 628
of_SetFillColor function (u_progressbar) 628
of_SetFillColor function (u_progressbar) 628
of_SetFillStyle function (u_progressbar) 629
of_SetFillStyle function (u_progressbar) 629
of_SetFont function (u_progressbar) 629
of_SetFont function (u_progressbar) 630
of_SetFontBold function (u_progressbar) 631
of_SetFontBold function (u_progressbar) 631
of_SetFontCharSet function (u_progressbar) 632
of_SetFontCharSet function (u_progressbar) 632
of_SetFontFace function (u_progressbar) 632
of_SetFontFace function (u_progressbar) 633
of_SetFontFamily function (u_progressbar) 633
of_SetFontFamily function (u_progressbar) 634
of_SetFontItalic function (u_progressbar) 634
of_SetFontItalic function (u_progressbar) 634
of_SetFontPitch function (u_progressbar) 635
of_SetFontPitch function (u_progressbar) 635
of_SetFontSize function (u_progressbar) 635

of_SetFontSize function (u_progressbar) 636
of_SetFontUnderline function (u_progressbar) 636
of_SetFontUnderline function (u_progressbar) 637
of_SetMaximum function (u_progressbar) 637
of_SetMaximum function (u_progressbar) 637
of_SetMessageText function (u_progressbar) 638
of_SetMessageText function (u_progressbar) 638
of_SetMinimum function (u_progressbar) 638
of_SetMinimum function (u_progressbar) 639
of_SetPosition function (u_progressbar) 639
of_SetPosition function (u_progressbar) 640
of_SetStep function (u_progressbar) 640
of_SetStep function (u_progressbar) 640
of_SetTextColor function (u_progressbar) 641
of_SetTextColor function (u_progressbar) 641
of_UpdateVisuals function (u_progressbar) 641
of_UpdateVisuals function (u_progressbar) 642
u_st_splitbar 642
u_st_splitbar 644
u_st_splitbar 644
u_st_splitbar 645
Constructor event (u_st_splitbar) 645
Constructor event (u_st_splitbar) 646
LButtonUp event (u_st_splitbar) 646
MouseMove event (u_st_splitbar) 646
u_st_splitbar 646
of_GetBarColor function (u_st_splitbar) 647
of_GetBarColor function (u_st_splitbar) 647
of_GetBarMoveColor function (u_st_splitbar) 648
of_GetBarMoveColor function (u_st_splitbar) 648
of_GetExtremePoint function (u_st_splitbar) 648
of_GetExtremePoint function (u_st_splitbar) 649
of_GetHorizontalPointer function (u_st_splitbar) 649
of_GetHorizontalPointer function (u_st_splitbar) 649
of_GetInfo function (u_st_splitbar) 650
of_GetInfo function (u_st_splitbar) 650
of_GetMinObjectSize function (u_st_splitbar) 651
of_GetMinObjectSize function (u_st_splitbar) 651
of_GetVerticalPointer function (u_st_splitbar) 651
of_GetVerticalPointer function (u_st_splitbar) 652
of_LButtonUp function (u_st_splitbar) 652
of_LButtonUp function (u_st_splitbar) 652
of_MouseMove function (u_st_splitbar) 653
of_MouseMove function (u_st_splitbar) 653
of_Redraw function (u_st_splitbar) 653
of_Redraw function (u_st_splitbar) 654
of_Register function (u_st_splitbar) 654
of_Register function (u_st_splitbar) 655
of_SetBarColor function (u_st_splitbar) 655
of_SetBarColor function (u_st_splitbar) 656

of_SetBarMoveColor function (u_st_splitbar) 656
of_SetBarMoveColor function (u_st_splitbar) 656
of_SetHorizontalPointer function (u_st_splitbar) 657
of_SetHorizontalPointer function (u_st_splitbar) 657
of_SetMinObjectSize function (u_st_splitbar) 658
of_SetMinObjectSize function (u_st_splitbar) 658
of_SetVerticalPointer function (u_st_splitbar) 658
of_SetVerticalPointer function (u_st_splitbar) 659
of_UpdateObjectData function (u_st_splitbar) 659
of_UpdateObjectData function (u_st_splitbar) 660
u_tabpg 660
u_tabpg 661
Standard Class User Objects 661
n_cn 661
n_cn 662
n_cn 662
of_Init function (n_cn) 662
of_Init function (n_cn) 663
of_MessageBox function (n_cn) 664
of_MessageBox function (n_cn) 664
n_cxinfo 665
n_cxinfo 665
n_cxk 665
n_cxk 666
n_dda 666
n_dda 667
n_ds 667
n_ds 669
n_ds 669
n_ds 669
DBError event (n_ds) 670
Destructor event (n_ds) 671
pfc_PageSetup event (n_ds) 671
pfc_PageSetupDlg event (n_ds) 671
pfc_PostUpdate event (n_ds) 672
pfc_PostUpdate event (n_ds) 672
pfc_PrePageSetupDlg event (n_ds) 672
pfc_PrePageSetupDlg event (n_ds) 673
pfc_PrePrintDlg event (n_ds) 673
pfc_PrePrintDlg event (n_ds) 673
pfc_Print event (n_ds) 673
pfc_PrintDlg event (n_ds) 674
pfc_PrintImmediate event (n_ds) 674
pfc_PrintPreview event (n_ds) 674
pfc_ResetUpdate event (n_ds) 675
pfc_Retrieve event (n_ds) 675
pfc_Retrieve event (n_ds) 675
pfc_Ruler event (n_ds) 676
pfc_Update event (n_ds) 676
pfc_UpdatePrep event (n_ds) 676

pfc_UpdatesPending event (n_ds) 677
pfc_Validation event (n_ds) 677
pfc_Zoom event (n_ds) 677
RetrieveStart event (n_ds) 678
SQLPreview event (n_ds) 678
n_ds 678
of_AcceptText function (n_ds) 679
of_AcceptText function (n_ds) 679
of_CheckRequired function (n_ds) 680
of_CheckRequired function (n_ds) 680
of_GetAppend function (n_ds) 681
of_GetAppend function (n_ds) 681
of_GetParentWindow function (n_ds) 681
of_GetParentWindow function (n_ds) 682
of_IsUpdateable function (n_ds) 682
of_IsUpdateable function (n_ds) 683
of_MessageBox function (n_ds) 683
of_MessageBox function (n_ds) 684
of_PostUpdate function (n_ds) 684
of_PostUpdate function (n_ds) 684
of_Retrieve function (n_ds) 685
of_Retrieve function (n_ds) 685
of_SetAppend function (n_ds) 685
of_SetAppend function (n_ds) 686
of_SetBase function (n_ds) 686
of_SetBase function (n_ds) 686
of_SetMultiTable function (n_ds) 687
of_SetMultiTable function (n_ds) 687
of_SetParentWindow function (n_ds) 687
of_SetParentWindow function (n_ds) 688
of_SetPrintPreview function (n_ds) 688
of_SetPrintPreview function (n_ds) 689
of_SetReport function (n_ds) 689
of_SetReport function (n_ds) 689
of_SetTransObject function (n_ds) 689
of_SetTransObject function (n_ds) 690
of_SetUpdateable function (n_ds) 690
of_SetUpdateable function (n_ds) 691
of_SetUpdateRequestor function (n_ds) 691
of_SetUpdateRequestor function (n_ds) 691
of_Update function (n_ds) 692
Syntax 1 Update data, optionally controlling update type 692
Syntax 1 Update data, optionally controlling update type 693
Syntax 2 Update data passing the requestor object 693
Syntax 2 Update data passing the requestor object 694
of_UpdatePrep function (n_ds) 694
of_UpdatePrep function (n_ds) 694
of_UpdatesPending function (n_ds) 695
of_UpdatesPending function (n_ds) 695
of_Validation function (n_ds) 695

of_Validation function (n_ds) 696
n_dsa 696
n_dsa 697
n_err 697
n_err 697
n_err 698
of_MessageBox function (n_err) 698
of_MessageBox function (n_err) 699
n_inet 699
n_inet 699
n_ir 700
n_ir 700
n_ms 700
n_ms 701
n_ms 701
of_MessageBox function (n_ms) 701
of_MessageBox function (n_ms) 702
n_msg 702
n_msg 703
n_msg 703
n_msg 704
of_CopyTo function (n_msg) 704
of_CopyTo function (n_msg) 704
of_GetDoubleParm function (n_msg) 705
of_GetDoubleParm function (n_msg) 705
of_GetPowerObjectParm function (n_msg) 705
of_GetPowerObjectParm function (n_msg) 706
of_GetStringParm function (n_msg) 706
of_GetStringParm function (n_msg) 707
of_MessageBox function (n_msg) 707
of_MessageBox function (n_msg) 708
of_SetDoubleParm function (n_msg) 708
of_SetDoubleParm function (n_msg) 708
of_SetPowerObjectParm function (n_msg) 709
of_SetPowerObjectParm function (n_msg) 709
of_SetStringParm function (n_msg) 710
of_SetStringParm function (n_msg) 710
n_oo 710
n_oo 711
n_ostg 711
n_ostg 711
n_ostm 712
n_ostm 712
n_pl 712
n_pl 713
n_pl 713
of_MessageBox function (n_pl) 713
of_MessageBox function (n_pl) 714
n_srv 714
n_srv 715

n_tmg 715
n_tmg 716
n_tmg 716
n_tmg 716
of_SetMultiple function (n_tmg) 716
of_SetMultiple function (n_tmg) 717
of_SetSingle function (n_tmg) 717
of_SetSingle function (n_tmg) 717
n_tr 718
n_tr 719
n_tr 719
n_tr 720
Destructor event (n_tr) 720
n_tr 720
of_Begin function (n_tr) 721
of_Commit function (n_tr) 722
of_Commit function (n_tr) 722
of_Connect function (n_tr) 723
of_Connect function (n_tr) 723
of_CopyTo function (n_tr) 723
of_CopyTo function (n_tr) 724
of_Disconnect function (n_tr) 724
of_Disconnect function (n_tr) 725
of_DistinctValues function (n_tr) 725
of_DistinctValues function (n_tr) 725
of_End function (n_tr) 726
of_Execute function (n_tr) 726
of_Execute function (n_tr) 727
of_GetAutoRollback function (n_tr) 727
of_GetAutoRollback function (n_tr) 727
of_GetName function (n_tr) 728
of_GetName function (n_tr) 728
of_GetSqlState function (n_tr) 728
of_GetSqlState function (n_tr) 729
of_GetTrace function (n_tr) 729
of_GetTrace function (n_tr) 730
of_Init function (n_tr) 730
of_Init function (n_tr) 731
of_IsConnected function (n_tr) 731
of_IsConnected function (n_tr) 731
of_MessageBox function (n_tr) 732
of_MessageBox function (n_tr) 732
of_Rollback function (n_tr) 733
of_Rollback function (n_tr) 733
of_SetAutoRollback function (n_tr) 734
of_SetAutoRollback function (n_tr) 734
of_SetLogidAndPassword function (n_tr) 734
of_SetLogidAndPassword function (n_tr) 735
of_SetName function (n_tr) 735
of_SetName function (n_tr) 735

of_SetTrace function (n_tr) 736
of_SetTrace function (n_tr) 736
of_SetUser function (n_tr) 736
of_SetUser function (n_tr) 737
of_SetUser function (n_tr) 737
of_SetUserIdAndPassword function (n_tr) 737
of_SetUserIdAndPassword function (n_tr) 738
n_trp 738
n_trp 738
n_trp 738
of_MessageBox function (n_trp) 739
of_MessageBox function (n_trp) 739
Custom Class User Objects 740
n_base 740
n_base 740
n_base 741
n_base 741
n_base 741
of_MessageBox function (n_base) 741
of_MessageBox function (n_base) 742
n_cst_appmanager 742
n_cst_appmanager 744
n_cst_appmanager 744
n_cst_appmanager 746
Constructor event (n_cst_appmanager) 747
Constructor event (n_cst_appmanager) 747
Destructor event (n_cst_appmanager) 747
Destructor event (n_cst_appmanager) 748
pfc_Close event (n_cst_appmanager) 748
pfc_Close event (n_cst_appmanager) 748
pfc_ConnectionBegin event (n_cst_appmanager) 749
pfc_ConnectionBegin event (n_cst_appmanager) 749
pfc_ConnectionEnd event (n_cst_appmanager) 750
pfc_ConnectionEnd event (n_cst_appmanager) 750
pfc_Exit event (n_cst_appmanager) 750
pfc_Exit event (n_cst_appmanager) 750
pfc_Idle event (n_cst_appmanager) 751
pfc_Idle event (n_cst_appmanager) 751
pfc_Logon event (n_cst_appmanager) 751
pfc_Logon event (n_cst_appmanager) 752
pfc_Open event (n_cst_appmanager) 752
pfc_Open event (n_cst_appmanager) 752
pfc_PreAbout event (n_cst_appmanager) 753
pfc_PreAbout event (n_cst_appmanager) 753
pfc_PreLogonDlg event (n_cst_appmanager) 753
pfc_PreLogonDlg event (n_cst_appmanager) 754
pfc_PreSplash event (n_cst_appmanager) 754
pfc_PreSplash event (n_cst_appmanager) 755
pfc_SystemError event (n_cst_appmanager) 755
pfc_SystemError event (n_cst_appmanager) 755

n_cst_appmanager 755
of_About function (n_cst_appmanager) 757
of_About function (n_cst_appmanager) 757
of_GetAppIniFile function (n_cst_appmanager) 757
of_GetAppIniFile function (n_cst_appmanager) 758
of_GetAppKey function (n_cst_appmanager) 758
of_GetAppKey function (n_cst_appmanager) 759
of_GetCopyright function (n_cst_appmanager) 759
of_GetCopyright function (n_cst_appmanager) 759
of_GetFrame function (n_cst_appmanager) 760
of_GetFrame function (n_cst_appmanager) 760
of_GetHelpFile function (n_cst_appmanager) 760
of_GetHelpFile function (n_cst_appmanager) 761
of_GetLogo function (n_cst_appmanager) 761
of_GetLogo function (n_cst_appmanager) 761
of_GetMicrohelp function (n_cst_appmanager) 762
of_GetMicrohelp function (n_cst_appmanager) 762
of_GetUserID function (n_cst_appmanager) 762
of_GetUserID function (n_cst_appmanager) 763
of_GetUserIniFile function (n_cst_appmanager) 763
of_GetUserIniFile function (n_cst_appmanager) 763
of_GetUserKey function (n_cst_appmanager) 764
of_GetUserKey function (n_cst_appmanager) 764
of_GetVersion function (n_cst_appmanager) 764
of_GetVersion function (n_cst_appmanager) 765
of_IsRegistryAvailable function (n_cst_appmanager) 765
of_IsRegistryAvailable function (n_cst_appmanager) 765
of_LogonDlg function (n_cst_appmanager) 766
of_LogonDlg function (n_cst_appmanager) 766
of_SetAppIniFile function (n_cst_appmanager) 767
of_SetAppIniFile function (n_cst_appmanager) 767
of_SetAppKey function (n_cst_appmanager) 767
of_SetAppKey function (n_cst_appmanager) 768
of_SetAppPreference function (n_cst_appmanager) 768
of_SetAppPreference function (n_cst_appmanager) 769
of_SetCopyright function (n_cst_appmanager) 769
of_SetCopyright function (n_cst_appmanager) 769
of_SetDebug function (n_cst_appmanager) 769
of_SetDebug function (n_cst_appmanager) 770
of_SetDwCache function (n_cst_appmanager) 770
of_SetDwCache function (n_cst_appmanager) 771
of_SetError function (n_cst_appmanager) 771
of_SetError function (n_cst_appmanager) 771
of_SetFrame function (n_cst_appmanager) 771
of_SetFrame function (n_cst_appmanager) 772
of_SetHelpFile function (n_cst_appmanager) 772
of_SetHelpFile function (n_cst_appmanager) 773
of_SetLogo function (n_cst_appmanager) 773
of_SetLogo function (n_cst_appmanager) 773
of_SetMicrohelp function (n_cst_appmanager) 774

of_SetMicrohelp function (n_cst_appmanager) 774
of_SetMRU function (n_cst_appmanager) 774
of_SetMRU function (n_cst_appmanager) 775
of_SetSecurity function (n_cst_appmanager) 775
of_SetSecurity function (n_cst_appmanager) 775
of_SetTrRegistration function (n_cst_appmanager) 776
of_SetTrRegistration function (n_cst_appmanager) 776
of_SetUserID function (n_cst_appmanager) 776
of_SetUserID function (n_cst_appmanager) 777
of_SetUserIniFile function (n_cst_appmanager) 777
of_SetUserIniFile function (n_cst_appmanager) 777
of_SetUserKey function (n_cst_appmanager) 778
of_SetUserKey function (n_cst_appmanager) 778
of_SetVersion function (n_cst_appmanager) 778
of_SetVersion function (n_cst_appmanager) 779
of_Splash function (n_cst_appmanager) 779
of_Splash function (n_cst_appmanager) 780
n_cst_apppreference 780
n_cst_apppreference 782
n_cst_apppreference 782
n_cst_apppreference 783
pfc_Close event (n_cst_apppreference) 783
pfc_Open event (n_cst_apppreference) 783
n_cst_apppreference 784
of_IsRestoreApp function (n_cst_apppreference) 785
of_IsRestoreApp function (n_cst_apppreference) 785
of_IsRestoreUser function (n_cst_apppreference) 785
of_IsRestoreUser function (n_cst_apppreference) 786
of_Restore function (n_cst_apppreference) 786
Syntax 1 Restore settings from the registry 786
Syntax 1 Restore settings from the registry 787
Syntax 2 Restore settings from an INI file 787
Syntax 2 Restore settings from an INI file 788
of_RestoreApp function (n_cst_apppreference) 788
of_RestoreApp function (n_cst_apppreference) 789
of_RestoreUser function (n_cst_apppreference) 789
of_RestoreUser function (n_cst_apppreference) 790
of_Save function (n_cst_apppreference) 790
Syntax 1 Save settings in the registry 790
Syntax 1 Save settings in the registry 791
Syntax 2 Save settings in an INI file 791
Syntax 2 Save settings in an INI file 792
of_SaveApp function (n_cst_apppreference) 792
of_SaveApp function (n_cst_apppreference) 793
of_SaveUser function (n_cst_apppreference) 793
of_SaveUser function (n_cst_apppreference) 794
of_SetAppIniFile function (n_cst_apppreference) 794
of_SetAppIniFile function (n_cst_apppreference) 794
of_SetAppKey function (n_cst_apppreference) 795
of_SetAppKey function (n_cst_apppreference) 795

of_SetRequestor function (n_cst_apppreference) 796
of_SetRequestor function (n_cst_apppreference) 796
of_SetRestoreApp function (n_cst_apppreference) 797
of_SetRestoreApp function (n_cst_apppreference) 797
of_SetRestoreUser function (n_cst_apppreference) 798
of_SetRestoreUser function (n_cst_apppreference) 798
of_SetUserIniFile function (n_cst_apppreference) 799
of_SetUserIniFile function (n_cst_apppreference) 799
of_SetUserKey function (n_cst_apppreference) 799
of_SetUserKey function (n_cst_apppreference) 800
n_cst_color 800
n_cst_color 801
n_cst_conversion 802
n_cst_conversion 803
n_cst_conversion 804
of_Boolean function (n_cst_conversion) 804
of_Boolean function (n_cst_conversion) 805
of_Button function (n_cst_conversion) 805
of_Button function (n_cst_conversion) 806
of_Date function (n_cst_conversion) 806
of_Date function (n_cst_conversion) 806
of_DWItemStatus function (n_cst_conversion) 807
of_DWItemStatus function (n_cst_conversion) 807
of_Icon function (n_cst_conversion) 808
of_Icon function (n_cst_conversion) 808
of_Integer function (n_cst_conversion) 809
of_Integer function (n_cst_conversion) 809
of_OSType function (n_cst_conversion) 809
of_OSType function (n_cst_conversion) 810
of_SQLPreviewType function (n_cst_conversion) 810
of_SQLPreviewType function (n_cst_conversion) 811
of_String function (n_cst_conversion) 811
Syntax 1 To convert a boolean to a string 811
Syntax 1 To convert a boolean to a string 812
Syntax 2 To convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes 812
Syntax 2 To convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes 814
of_Time function (n_cst_conversion) 814
of_Time function (n_cst_conversion) 815
of_ToolbarAlignment function (n_cst_conversion) 815
of_ToolbarAlignment function (n_cst_conversion) 816
of_WindowState function (n_cst_conversion) 816
of_WindowState function (n_cst_conversion) 817
n_cst_datetime 817
n_cst_datetime 818
n_cst_datetime 818
of_DayOfWeek function (n_cst_datetime) 819
of_DayOfWeek function (n_cst_datetime) 820
of_Days function (n_cst_datetime) 820

of_Days function (n_cst_datetime) 821
of_FirstDayOfMonth function (n_cst_datetime) 821
of_FirstDayOfMonth function (n_cst_datetime) 821
of_Gregorian function (n_cst_datetime) 822
of_Gregorian function (n_cst_datetime) 822
of_Hours function (n_cst_datetime) 822
of_Hours function (n_cst_datetime) 823
of_IsLeapYear function (n_cst_datetime) 823
of_IsLeapYear function (n_cst_datetime) 824
of_IsValid function (n_cst_datetime) 824
of_IsValid function (n_cst_datetime) 824
of_IsWeekDay function (n_cst_datetime) 825
of_IsWeekDay function (n_cst_datetime) 825
of_IsWeekEnd function (n_cst_datetime) 825
of_IsWeekEnd function (n_cst_datetime) 826
of_Julian function (n_cst_datetime) 826
of_Julian function (n_cst_datetime) 827
of_JulianDayNumber function (n_cst_datetime) 827
of_JulianDayNumber function (n_cst_datetime) 827
of_LastDayOfMonth function (n_cst_datetime) 828
of_LastDayOfMonth function (n_cst_datetime) 828
of_MilliSecsAfter function (n_cst_datetime) 829
of_MilliSecsAfter function (n_cst_datetime) 829
of_MonthName function (n_cst_datetime) 829
of_MonthName function (n_cst_datetime) 830
of_MonthsAfter function (n_cst_datetime) 830
of_MonthsAfter function (n_cst_datetime) 831
of_RelativeDateTime function (n_cst_datetime) 831
of_RelativeDateTime function (n_cst_datetime) 831
of_RelativeMonth function (n_cst_datetime) 832
of_RelativeMonth function (n_cst_datetime) 832
of_RelativeYear function (n_cst_datetime) 833
of_RelativeYear function (n_cst_datetime) 833
of_SecondsAfter function (n_cst_datetime) 833
of_SecondsAfter function (n_cst_datetime) 834
of_Wait function (n_cst_datetime) 834
Syntax 1 Wait until a specified date/time 835
Syntax 1 Wait until a specified date/time 835
Syntax 2 Wait a specified number of seconds 835
Syntax 2 Wait a specified number of seconds 836
of_WeekNumber function (n_cst_datetime) 836
of_WeekNumber function (n_cst_datetime) 837
of_WeeksAfter function (n_cst_datetime) 837
of_WeeksAfter function (n_cst_datetime) 837
of_YearsAfter function (n_cst_datetime) 838
of_YearsAfter function (n_cst_datetime) 838
n_cst_debug 839
n_cst_debug 840
n_cst_debug 840
n_cst_debug 841

Constructor event (n_cst_debug) 841
Destructor event (n_cst_debug) 841
n_cst_debug 841
of_ClearLog function (n_cst_debug) 842
of_ClearLog function (n_cst_debug) 842
of_GetAlwaysOnTop function (n_cst_debug) 843
of_GetAlwaysOnTop function (n_cst_debug) 843
of_IsLogOpen function (n_cst_debug) 843
of_IsLogOpen function (n_cst_debug) 844
of_Message function (n_cst_debug) 844
of_Message function (n_cst_debug) 844
of_OpenLog function (n_cst_debug) 845
of_OpenLog function (n_cst_debug) 845
of_PrintLog function (n_cst_debug) 845
of_PrintLog function (n_cst_debug) 846
of_SetAlwaysOnTop function (n_cst_debug) 846
of_SetAlwaysOnTop function (n_cst_debug) 846
of_SetDWProperty function (n_cst_debug) 847
of_SetDWProperty function (n_cst_debug) 847
of_SetSQLSpy function (n_cst_debug) 847
of_SetSQLSpy function (n_cst_debug) 848
n_cst_dropdown 848
n_cst_dropdown 849
n_cst_dropdown 849
n_cst_dropdown 849
of_GetParentPosition function (n_cst_dropdown) 850
of_GetParentPosition function (n_cst_dropdown) 850
of_GetParentWindow function (n_cst_dropdown) 851
of_GetParentWindow function (n_cst_dropdown) 851
of_GetSystemSetting function (n_cst_dropdown) 851
of_GetSystemSetting function (n_cst_dropdown) 852
of_Position function (n_cst_dropdown) 853
of_Position function (n_cst_dropdown) 853
of_SetRequestor function (n_cst_dropdown) 853
of_SetRequestor function (n_cst_dropdown) 854
n_cst_dssrv 854
n_cst_dssrv 855
n_cst_dssrv 855
n_cst_dssrv_multitable 856
n_cst_dssrv_multitable 856
n_cst_dssrv_printpreview 857
n_cst_dssrv_printpreview 858
n_cst_dssrv_report 858
n_cst_dssrv_report 859
n_cst_dwcache 860
n_cst_dwcache 861
n_cst_dwcache 861
n_cst_dwcache 862
Destructor event (n_cst_dwcache) 862
n_cst_dwcache 862

of_GetCount function (n_cst_dwcache) 863
of_GetCount function (n_cst_dwcache) 863
of_GetRegistered function (n_cst_dwcache) 863
Syntax 1 To access a specified DataStore 864
Syntax 1 To access a specified DataStore 864
Syntax 2 To access all IDs 864
Syntax 2 To access all IDs 865
Syntax 3 To access all DataStores 865
Syntax 3 To access all DataStores 866
of_IsRegistered function (n_cst_dwcache) 866
of_IsRegistered function (n_cst_dwcache) 867
of_Refresh function (n_cst_dwcache) 867
of_Refresh function (n_cst_dwcache) 868
of_Register function (n_cst_dwcache) 868
Syntax 1 To cache data retrieved via a DataWindow object, optionally using retrieval arguments 868
Syntax 1 To cache data retrieved via a DataWindow object, optionally using retrieval arguments 869
Syntax 2 To cache data retrieved via a DataWindow object 869
Syntax 2 To cache data retrieved via a DataWindow object 870
Syntax 3 To cache data retrieved via a SQL statement 870
Syntax 3 To cache data retrieved via a SQL statement 871
Syntax 4 To cache data from a DataWindow control 871
Syntax 4 To cache data from a DataWindow control 871
Syntax 5 To cache data from a DataStore 872
Syntax 5 To cache data from a DataStore 872
Syntax 6 To cache passed data 873
Syntax 6 To cache passed data 873
Syntax 7 To cache data from a file 874
Syntax 7 To cache data from a file 874
of_RegisterArgs function (n_cst_dwcache) 875
of_RegisterArgs function (n_cst_dwcache) 875
of_UnRegister function (n_cst_dwcache) 875
of_UnRegister function (n_cst_dwcache) 876
n_cst_dwsrv 876
n_cst_dwsrv 877
n_cst_dwsrv 878
n_cst_dwsrv 878
n_cst_dwsrv 879
of_BuildComparison function (n_cst_dwsrv) 880
of_BuildComparison function (n_cst_dwsrv) 880
of_BuildExpression function (n_cst_dwsrv) 881
of_BuildExpression function (n_cst_dwsrv) 881
of_Describe function (n_cst_dwsrv) 882
Syntax 1 To describe multiple columns or bands 882
Syntax 1 To describe multiple columns or bands 883
Syntax 2 To describe a single column 883
Syntax 2 To describe a single column 884
of_DWArguments function (n_cst_dwsrv) 884
Syntax 1 To access DropDownDataWindow arguments 884

Syntax 1 To access DropDownDataWindow arguments 885
Syntax 2 To access DataWindow arguments 885
Syntax 2 To access DataWindow arguments 886
of_GetColumnDisplayName function (n_cst_dwsrv) 886
of_GetColumnDisplayName function (n_cst_dwsrv) 886
of_GetColumnDisplayNameStyle function (n_cst_dwsrv) 887
of_GetColumnDisplayNameStyle function (n_cst_dwsrv) 887
of_GetColumnNameSource function (n_cst_dwsrv) 887
of_GetDefaultHeaderSuffix function (n_cst_dwsrv) 888
of_GetDefaultHeaderSuffix function (n_cst_dwsrv) 888
of_GetDisplayItem function (n_cst_dwsrv) 889
of_GetDisplayItem function (n_cst_dwsrv) 889
of_GetDisplayUnits function (n_cst_dwsrv) 889
of_GetDisplayUnits function (n_cst_dwsrv) 890
of_GetHeaderName function (n_cst_dwsrv) 890
of_GetHeaderName function (n_cst_dwsrv) 891
of_GetHeight function (n_cst_dwsrv) 891
of_GetHeight function (n_cst_dwsrv) 891
of_GetInfo function (n_cst_dwsrv) 892
of_GetInfo function (n_cst_dwsrv) 892
of_GetItem function (n_cst_dwsrv) 892
of_GetItem function (n_cst_dwsrv) 893
of_GetItemAny function (n_cst_dwsrv) 893
of_GetItemAny function (n_cst_dwsrv) 894
of_GetObjects function (n_cst_dwsrv) 894
of_GetObjects function (n_cst_dwsrv) 895
of_GetPropertyInfo function (n_cst_dwsrv) 896
of_GetPropertyInfo function (n_cst_dwsrv) 896
of_GetWidth function (n_cst_dwsrv) 897
of_GetWidth function (n_cst_dwsrv) 897
of_Modify function (n_cst_dwsrv) 897
Syntax 1 To modify multiple columns or bands 898
Syntax 1 To modify multiple columns or bands 898
Syntax 2 To modify a single column 899
Syntax 2 To modify a single column 899
of_PopulateDDDW function (n_cst_dwsrv) 899
of_PopulateDDDW function (n_cst_dwsrv) 900
of_RefreshDDDWs function (n_cst_dwsrv) 900
of_SetColumnDisplayNameStyle function (n_cst_dwsrv) 901
of_SetColumnDisplayNameStyle function (n_cst_dwsrv) 901
of_SetColumnNameSource function (n_cst_dwsrv) 901
of_SetDefaultHeaderSuffix function (n_cst_dwsrv) 902
of_SetDefaultHeaderSuffix function (n_cst_dwsrv) 902
of_SetDisplayItem function (n_cst_dwsrv) 903
of_SetDisplayItem function (n_cst_dwsrv) 903
of_SetDisplayUnits function (n_cst_dwsrv) 903
of_SetDisplayUnits function (n_cst_dwsrv) 904
of_SetItem function (n_cst_dwsrv) 904
of_SetItem function (n_cst_dwsrv) 905
of_SetRequestor function (n_cst_dwsrv) 905

of_SetRequestor function (n_cst_dwsrv) 905
n_cst_dwsrv_dropdownsearch 906
n_cst_dwsrv_dropdownsearch 907
n_cst_dwsrv_dropdownsearch 907
n_cst_dwsrv_dropdownsearch 908
pfc_EditChanged event (n_cst_dwsrv_dropdownsearch) 908
pfc_EditChanged event (n_cst_dwsrv_dropdownsearch) 908
pfc_ItemFocusChanged event (n_cst_dwsrv_dropdownsearch) 909
pfc_ItemFocusChanged event (n_cst_dwsrv_dropdownsearch) 909
n_cst_dwsrv_dropdownsearch 909
of_AddColumn function (n_cst_dwsrv_dropdownsearch) 910
of_DeleteItem function (n_cst_dwsrv_dropdownsearch) 911
of_DeleteItem function (n_cst_dwsrv_dropdownsearch) 911
of_GetColumn function (n_cst_dwsrv_dropdownsearch) 911
of_GetInfo function (n_cst_dwsrv_dropdownsearch) 912
of_GetInfo function (n_cst_dwsrv_dropdownsearch) 912
of_GetPropertyInfo function (n_cst_dwsrv_dropdownsearch) 913
of_GetPropertyInfo function (n_cst_dwsrv_dropdownsearch) 913
of_GetRegisterable function (n_cst_dwsrv_dropdownsearch) 913
of_GetRegisterable function (n_cst_dwsrv_dropdownsearch) 914
of_GetRegistered function (n_cst_dwsrv_dropdownsearch) 914
of_GetRegistered function (n_cst_dwsrv_dropdownsearch) 915
of_IsRegistered function (n_cst_dwsrv_dropdownsearch) 915
of_IsRegistered function (n_cst_dwsrv_dropdownsearch) 916
of_Register function (n_cst_dwsrv_dropdownsearch) 916
of_Register function (n_cst_dwsrv_dropdownsearch) 916
of_RemoveColumn function (n_cst_dwsrv_dropdownsearch) 917
of_SearchItem function (n_cst_dwsrv_dropdownsearch) 917
of_SearchItem function (n_cst_dwsrv_dropdownsearch) 918
of_UnRegister function (n_cst_dwsrv_dropdownsearch) 918
of_UnRegister function (n_cst_dwsrv_dropdownsearch) 918
n_cst_dwsrv_filter 919
n_cst_dwsrv_filter 920
n_cst_dwsrv_filter 920
n_cst_dwsrv_filter 921
pfc_FilterDlg event (n_cst_dwsrv_filter) 921
n_cst_dwsrv_filter 921
of_BuildFilterAttrib function (n_cst_dwsrv_filter) 922
of_BuildFilterAttrib function (n_cst_dwsrv_filter) 922
of_Filter function (n_cst_dwsrv_filter) 923
of_Filter function (n_cst_dwsrv_filter) 923
of_GetExclude function (n_cst_dwsrv_filter) 923
of_GetExclude function (n_cst_dwsrv_filter) 924
of_GetFilter function (n_cst_dwsrv_filter) 924
of_GetFilter function (n_cst_dwsrv_filter) 925
of_GetInfo function (n_cst_dwsrv_filter) 925
of_GetInfo function (n_cst_dwsrv_filter) 925
of_GetPropertyInfo function (n_cst_dwsrv_filter) 926
of_GetPropertyInfo function (n_cst_dwsrv_filter) 926
of_GetRegisterable function (n_cst_dwsrv_filter) 927

of_GetRegisterable function (n_cst_dwsrv_filter) 927
of_GetStyle function (n_cst_dwsrv_filter) 927
of_GetStyle function (n_cst_dwsrv_filter) 928
of_GetVisibleOnly function (n_cst_dwsrv_filter) 928
of_GetVisibleOnly function (n_cst_dwsrv_filter) 929
of_SetExclude function (n_cst_dwsrv_filter) 929
of_SetExclude function (n_cst_dwsrv_filter) 929
of_SetFilter function (n_cst_dwsrv_filter) 930
of_SetFilter function (n_cst_dwsrv_filter) 930
of_SetStyle function (n_cst_dwsrv_filter) 931
of_SetStyle function (n_cst_dwsrv_filter) 931
of_SetVisibleOnly function (n_cst_dwsrv_filter) 932
of_SetVisibleOnly function (n_cst_dwsrv_filter) 932
n_cst_dwsrv_find 932
n_cst_dwsrv_find 934
n_cst_dwsrv_find 934
n_cst_dwsrv_find 935
pfc_FindDlg event (n_cst_dwsrv_find) 935
pfc_FindNext event (n_cst_dwsrv_find) 935
pfc_Replace event (n_cst_dwsrv_find) 936
pfc_ReplaceAll event (n_cst_dwsrv_find) 936
pfc_ReplaceDlg event (n_cst_dwsrv_find) 937
n_cst_dwsrv_find 937
of_BuildColumnNames function (n_cst_dwsrv_find) 938
of_BuildColumnNames function (n_cst_dwsrv_find) 938
of_BuildFindExpression function (n_cst_dwsrv_find) 938
of_BuildFindExpression function (n_cst_dwsrv_find) 939
of_CompareAttrib function (n_cst_dwsrv_find) 939
of_CompareAttrib function (n_cst_dwsrv_find) 940
of_Find function (n_cst_dwsrv_find) 940
of_Find function (n_cst_dwsrv_find) 941
of_FindStartAndEndRows function (n_cst_dwsrv_find) 941
of_FindStartAndEndRows function (n_cst_dwsrv_find) 941
of_GetColumnEditStatus function (n_cst_dwsrv_find) 942
of_GetColumnEditStatus function (n_cst_dwsrv_find) 942
of_GetInfo function (n_cst_dwsrv_find) 943
of_GetInfo function (n_cst_dwsrv_find) 943
of_GetPropertyInfo function (n_cst_dwsrv_find) 943
of_GetPropertyInfo function (n_cst_dwsrv_find) 944
of_IncludeComputes function (n_cst_dwsrv_find) 944
of_IncludeComputes function (n_cst_dwsrv_find) 945
of_Initialize function (n_cst_dwsrv_find) 945
of_Initialize function (n_cst_dwsrv_find) 945
of_IsAllowFindDlg function (n_cst_dwsrv_find) 946
of_IsAllowFindDlg function (n_cst_dwsrv_find) 946
of_IsAllowReplaceDlg function (n_cst_dwsrv_find) 946
of_IsAllowReplaceDlg function (n_cst_dwsrv_find) 947
of_IsOngoingFind function (n_cst_dwsrv_find) 947
of_IsOngoingFind function (n_cst_dwsrv_find) 948
of_Replace function (n_cst_dwsrv_find) 948

of_Replace function (n_cst_dwsrv_find) 949
of_SelectText function (n_cst_dwsrv_find) 949
of_SelectText function (n_cst_dwsrv_find) 949
of_SetAllowFindDlg function (n_cst_dwsrv_find) 950
of_SetAllowFindDlg function (n_cst_dwsrv_find) 950
of_SetAllowReplaceDlg function (n_cst_dwsrv_find) 950
of_SetAllowReplaceDlg function (n_cst_dwsrv_find) 951
n_cst_dwsrv_linkage 951
n_cst_dwsrv_linkage 954
n_cst_dwsrv_linkage 954
n_cst_dwsrv_linkage 956
Destructor event (n_cst_dwsrv_linkage) 956
pfc_Clicked event (n_cst_dwsrv_linkage) 957
pfc_DeleteRow event (n_cst_dwsrv_linkage) 957
pfc_InsertRow event (n_cst_dwsrv_linkage) 958
pfc_ItemChanged event (n_cst_dwsrv_linkage) 958
pfc_ItemFocusChanged event (n_cst_dwsrv_linkage) 959
pfc_PreDeleteRow event (n_cst_dwsrv_linkage) 959
pfc_PreInsertRow event (n_cst_dwsrv_linkage) 960
pfc_RButtonDown event (n_cst_dwsrv_linkage) 960
pfc_RetrieveEnd event (n_cst_dwsrv_linkage) 961
pfc_RetrieveStart event (n_cst_dwsrv_linkage) 961
pfc_RowChanged event (n_cst_dwsrv_linkage) 961
pfc_RowFocusChanged event (n_cst_dwsrv_linkage) 962
pfc_RowFocusChanging event (n_cst_dwsrv_linkage) 962
n_cst_dwsrv_linkage 963
of_AcceptText function (n_cst_dwsrv_linkage) 966
of_AcceptText function (n_cst_dwsrv_linkage) 966
of_CheckRequired function (n_cst_dwsrv_linkage) 967
of_CheckRequired function (n_cst_dwsrv_linkage) 967
of_ConfirmOnDelete function (n_cst_dwsrv_linkage) 968
of_ConfirmOnDelete function (n_cst_dwsrv_linkage) 968
of_ConfirmOnRowChange function (n_cst_dwsrv_linkage) 968
of_ConfirmOnRowChange function (n_cst_dwsrv_linkage) 969
of_CreateUpdateSequence function (n_cst_dwsrv_linkage) 969
of_CreateUpdateSequence function (n_cst_dwsrv_linkage) 970
of_DeleteDetailRows function (n_cst_dwsrv_linkage) 970
of_DeleteDetailRows function (n_cst_dwsrv_linkage) 971
of_DeleteRows function (n_cst_dwsrv_linkage) 971
of_DeleteRows function (n_cst_dwsrv_linkage) 971
of_FilterDetails function (n_cst_dwsrv_linkage) 972
of_FilterDetails function (n_cst_dwsrv_linkage) 972
of_FindRoot function (n_cst_dwsrv_linkage) 973
of_FindRoot function (n_cst_dwsrv_linkage) 973
of_GetArguments function (n_cst_dwsrv_linkage) 973
of_GetCustomUpdate function (n_cst_dwsrv_linkage) 974
of_GetCustomUpdate function (n_cst_dwsrv_linkage) 974
of_GetDeleteStyle function (n_cst_dwsrv_linkage) 975
of_GetDeleteStyle function (n_cst_dwsrv_linkage) 975
of_GetDetails function (n_cst_dwsrv_linkage) 975

of_GetDetails function (n_cst_dwsrv_linkage) 976
of_GetInfo function (n_cst_dwsrv_linkage) 976
of_GetInfo function (n_cst_dwsrv_linkage) 977
of_GetMaster function (n_cst_dwsrv_linkage) 977
of_GetMaster function (n_cst_dwsrv_linkage) 977
of_GetOtherSaveObjects function (n_cst_dwsrv_linkage) 978
of_GetOtherSaveObjects function (n_cst_dwsrv_linkage) 978
of_GetPropertyInfo function (n_cst_dwsrv_linkage) 979
of_GetPropertyInfo function (n_cst_dwsrv_linkage) 979
of_GetRegistered function (n_cst_dwsrv_linkage) 979
of_GetRegistered function (n_cst_dwsrv_linkage) 980
of_GetSaveSound function (n_cst_dwsrv_linkage) 980
of_GetSaveSound function (n_cst_dwsrv_linkage) 981
of_GetStyle function (n_cst_dwsrv_linkage) 981
of_GetStyle function (n_cst_dwsrv_linkage) 981
of_GetUpdateBottomUp function (n_cst_dwsrv_linkage) 982
of_GetUpdatesPending function (n_cst_dwsrv_linkage) 982
of_GetUpdatesPending function (n_cst_dwsrv_linkage) 983
of_GetUpdateStyle function (n_cst_dwsrv_linkage) 983
of_GetUpdateStyle function (n_cst_dwsrv_linkage) 984
of_GetUseColLinks function (n_cst_dwsrv_linkage) 984
of_GetValue function (n_cst_dwsrv_linkage) 984
of_IsConfirmOnDelete function (n_cst_dwsrv_linkage) 985
of_IsConfirmOnDelete function (n_cst_dwsrv_linkage) 985
of_IsConfirmOnRowChange function (n_cst_dwsrv_linkage) 986
of_IsConfirmOnRowChange function (n_cst_dwsrv_linkage) 986
of_IsKey function (n_cst_dwsrv_linkage) 986
of_IsKey function (n_cst_dwsrv_linkage) 987
of_IsLinked function (n_cst_dwsrv_linkage) 987
of_IsLinked function (n_cst_dwsrv_linkage) 987
of_IsRoot function (n_cst_dwsrv_linkage) 988
of_IsRoot function (n_cst_dwsrv_linkage) 988
of_IsSyncOnKeyChange function (n_cst_dwsrv_linkage) 988
of_IsSyncOnKeyChange function (n_cst_dwsrv_linkage) 989
of_IsUpdateOnRowChange function (n_cst_dwsrv_linkage) 989
of_IsUpdateOnRowChange function (n_cst_dwsrv_linkage) 990
of_ItemFocusChanged function (n_cst_dwsrv_linkage) 990
of_ItemFocusChanged function (n_cst_dwsrv_linkage) 990
of_KeyChanged function (n_cst_dwsrv_linkage) 991
of_KeyChanged function (n_cst_dwsrv_linkage) 991
of_KeySync function (n_cst_dwsrv_linkage) 991
of_KeySync function (n_cst_dwsrv_linkage) 992
of_LinkDetail function (n_cst_dwsrv_linkage) 992
of_LinkDetail function (n_cst_dwsrv_linkage) 993
of_LinkTo function (n_cst_dwsrv_linkage) 993
of_PostUpdate function (n_cst_dwsrv_linkage) 993
of_PostUpdate function (n_cst_dwsrv_linkage) 994
of_Refresh function (n_cst_dwsrv_linkage) 994
of_Refresh function (n_cst_dwsrv_linkage) 995
of_Register function (n_cst_dwsrv_linkage) 995

of_Register function (n_cst_dwsrv_linkage) 996
of_Reset function (n_cst_dwsrv_linkage) 996
of_Reset function (n_cst_dwsrv_linkage) 996
of_ResetArguments function (n_cst_dwsrv_linkage) 996
of_ResetMaster function (n_cst_dwsrv_linkage) 997
of_ResetMaster function (n_cst_dwsrv_linkage) 997
of_ResetUpdate function (n_cst_dwsrv_linkage) 998
of_ResetUpdate function (n_cst_dwsrv_linkage) 998
of_Retrieve function (n_cst_dwsrv_linkage) 999
of_Retrieve function (n_cst_dwsrv_linkage) 999
of_RetrieveDetails function (n_cst_dwsrv_linkage) 1000
of_RetrieveDetails function (n_cst_dwsrv_linkage) 1000
of_Save function (n_cst_dwsrv_linkage) 1000
of_Save function (n_cst_dwsrv_linkage) 1001
of_ScrollDetails function (n_cst_dwsrv_linkage) 1001
of_ScrollDetails function (n_cst_dwsrv_linkage) 1002
of_SetArguments function (n_cst_dwsrv_linkage) 1002
of_SetConfirmOnDelete function (n_cst_dwsrv_linkage) 1003
of_SetConfirmOnDelete function (n_cst_dwsrv_linkage) 1003
of_SetConfirmOnRowChange function (n_cst_dwsrv_linkage) 1003
of_SetConfirmOnRowChange function (n_cst_dwsrv_linkage) 1004
of_SetCustomUpdate function (n_cst_dwsrv_linkage) 1004
of_SetCustomUpdate function (n_cst_dwsrv_linkage) 1005
of_SetDeleteStyle function (n_cst_dwsrv_linkage) 1005
of_SetDeleteStyle function (n_cst_dwsrv_linkage) 1006
of_SetKeyCols function (n_cst_dwsrv_linkage) 1006
of_SetKeyCols function (n_cst_dwsrv_linkage) 1006
of_SetKeyValues function (n_cst_dwsrv_linkage) 1007
of_SetKeyValues function (n_cst_dwsrv_linkage) 1007
of_SetMaster function (n_cst_dwsrv_linkage) 1007
of_SetMaster function (n_cst_dwsrv_linkage) 1008
of_SetOtherSaveObjects function (n_cst_dwsrv_linkage) 1008
of_SetOtherSaveObjects function (n_cst_dwsrv_linkage) 1009
of_SetRedraw function (n_cst_dwsrv_linkage) 1009
of_SetRedraw function (n_cst_dwsrv_linkage) 1009
of_SetSaveSound function (n_cst_dwsrv_linkage) 1010
of_SetSaveSound function (n_cst_dwsrv_linkage) 1010
of_SetStyle function (n_cst_dwsrv_linkage) 1010
of_SetStyle function (n_cst_dwsrv_linkage) 1011
of_SetSyncOnKeyChange function (n_cst_dwsrv_linkage) 1011
of_SetSyncOnKeyChange function (n_cst_dwsrv_linkage) 1012
of_SetTransObject function (n_cst_dwsrv_linkage) 1012
of_SetTransObject function (n_cst_dwsrv_linkage) 1013
of_SetUpdateBottomUp function (n_cst_dwsrv_linkage) 1013
of_SetUpdateOnRowChange function (n_cst_dwsrv_linkage) 1013
of_SetUpdateOnRowChange function (n_cst_dwsrv_linkage) 1014
of_SetUpdateRequestor function (n_cst_dwsrv_linkage) 1014
of_SetUpdateRequestor function (n_cst_dwsrv_linkage) 1014
of_SetUpdateStyle function (n_cst_dwsrv_linkage) 1015
of_SetUpdateStyle function (n_cst_dwsrv_linkage) 1015

of_SetUseColLinks function (n_cst_dwsrv_linkage) 1016
of_TriggerEvent function (n_cst_dwsrv_linkage) 1016
of_TriggerEvent function (n_cst_dwsrv_linkage) 1017
of_UndoModified function (n_cst_dwsrv_linkage) 1017
of_UndoModified function (n_cst_dwsrv_linkage) 1017
of_Unlink function (n_cst_dwsrv_linkage) 1018
of_UnlinkDetail function (n_cst_dwsrv_linkage) 1018
of_UnlinkDetail function (n_cst_dwsrv_linkage) 1019
of_UnRegister function (n_cst_dwsrv_linkage) 1019
of_UnRegister function (n_cst_dwsrv_linkage) 1019
of_Update function (n_cst_dwsrv_linkage) 1020
of_Update function (n_cst_dwsrv_linkage) 1020
of_UpdateBottomUp function (n_cst_dwsrv_linkage) 1021
of_UpdateBottomUp function (n_cst_dwsrv_linkage) 1021
of_UpdateBottomUpAndTopDown function (n_cst_dwsrv_linkage) 1021
of_UpdateBottomUpAndTopDown function (n_cst_dwsrv_linkage) 1022
of_UpdateCustom function (n_cst_dwsrv_linkage) 1022
of_UpdateCustom function (n_cst_dwsrv_linkage) 1023
of_UpdateOnRowChange function (n_cst_dwsrv_linkage) 1023
of_UpdateOnRowChange function (n_cst_dwsrv_linkage) 1024
of_UpdatePrep function (n_cst_dwsrv_linkage) 1024
of_UpdatePrep function (n_cst_dwsrv_linkage) 1024
of_UpdateTopDown function (n_cst_dwsrv_linkage) 1025
of_UpdateTopDown function (n_cst_dwsrv_linkage) 1025
of_UpdateTopDownAndBottomUp function (n_cst_dwsrv_linkage) 1026
of_UpdateTopDownAndBottomUp function (n_cst_dwsrv_linkage) 1026
of_Validation function (n_cst_dwsrv_linkage) 1026
of_Validation function (n_cst_dwsrv_linkage) 1027
n_cst_dwsrv_multitable 1027
n_cst_dwsrv_multitable 1029
n_cst_dwsrv_multitable 1029
n_cst_dwsrv_multitable 1029
of_AddToUpdate function (n_cst_dwsrv_multitable) 1030
of_GetInfo function (n_cst_dwsrv_multitable) 1030
of_GetInfo function (n_cst_dwsrv_multitable) 1031
of_GetPropertyInfo function (n_cst_dwsrv_multitable) 1031
of_GetPropertyInfo function (n_cst_dwsrv_multitable) 1032
of_GetRegisterable function (n_cst_dwsrv_multitable) 1032
of_GetRegisterable function (n_cst_dwsrv_multitable) 1033
of_GetRegisterableColumn function (n_cst_dwsrv_multitable) 1033
of_GetRegisterableColumn function (n_cst_dwsrv_multitable) 1033
of_GetRegisterableTable function (n_cst_dwsrv_multitable) 1034
of_GetRegisterableTable function (n_cst_dwsrv_multitable) 1034
of_GetRegistered function (n_cst_dwsrv_multitable) 1035
of_GetRegistered function (n_cst_dwsrv_multitable) 1035
of_IsRegistered function (n_cst_dwsrv_multitable) 1036
of_IsRegistered function (n_cst_dwsrv_multitable) 1036
of_Register function (n_cst_dwsrv_multitable) 1036
of_Register function (n_cst_dwsrv_multitable) 1037
of_RestoreUpdateSettings function (n_cst_dwsrv_multitable) 1037

of_RestoreUpdateSettings function (n_cst_dwsrv_multitable) 1038
of_StoreUpdateSettings function (n_cst_dwsrv_multitable) 1038
of_StoreUpdateSettings function (n_cst_dwsrv_multitable) 1039
of_UnRegister function (n_cst_dwsrv_multitable) 1039
of_UnRegister function (n_cst_dwsrv_multitable) 1039
of_Update function (n_cst_dwsrv_multitable) 1040
of_Update function (n_cst_dwsrv_multitable) 1040
n_cst_dwsrv_printpreview 1040
n_cst_dwsrv_printpreview 1042
n_cst_dwsrv_printpreview 1042
of_FirstPage function (n_cst_dwsrv_printpreview) 1043
of_FirstPage function (n_cst_dwsrv_printpreview) 1043
of_GetEnabled function (n_cst_dwsrv_printpreview) 1043
of_GetEnabled function (n_cst_dwsrv_printpreview) 1044
of_GetInfo function (n_cst_dwsrv_printpreview) 1044
of_GetInfo function (n_cst_dwsrv_printpreview) 1044
of_GetPropertyInfo function (n_cst_dwsrv_printpreview) 1045
of_GetPropertyInfo function (n_cst_dwsrv_printpreview) 1045
of_GetRuler function (n_cst_dwsrv_printpreview) 1046
of_GetRuler function (n_cst_dwsrv_printpreview) 1046
of_GetZoom function (n_cst_dwsrv_printpreview) 1046
of_GetZoom function (n_cst_dwsrv_printpreview) 1047
of_LastPage function (n_cst_dwsrv_printpreview) 1047
of_LastPage function (n_cst_dwsrv_printpreview) 1047
of_Page function (n_cst_dwsrv_printpreview) 1048
of_Page function (n_cst_dwsrv_printpreview) 1048
of_PageAcross function (n_cst_dwsrv_printpreview) 1048
of_PageAcross function (n_cst_dwsrv_printpreview) 1049
of_PageCount function (n_cst_dwsrv_printpreview) 1049
of_PageCount function (n_cst_dwsrv_printpreview) 1049
of_PageCountAcross function (n_cst_dwsrv_printpreview) 1050
of_PageCountAcross function (n_cst_dwsrv_printpreview) 1050
of_SetEnabled function (n_cst_dwsrv_printpreview) 1050
of_SetEnabled function (n_cst_dwsrv_printpreview) 1051
of_SetRuler function (n_cst_dwsrv_printpreview) 1051
of_SetRuler function (n_cst_dwsrv_printpreview) 1051
of_SetZoom function (n_cst_dwsrv_printpreview) 1052
of_SetZoom function (n_cst_dwsrv_printpreview) 1052
n_cst_dwsrv_property 1052
n_cst_dwsrv_property 1053
n_cst_dwsrv_property 1054
n_cst_dwsrv_property 1054
Destructor event (n_cst_dwsrv_property) 1054
n_cst_dwsrv_property 1054
of_IsPropertyOpen function (n_cst_dwsrv_property) 1055
of_IsPropertyOpen function (n_cst_dwsrv_property) 1055
of_OpenProperty function (n_cst_dwsrv_property) 1055
of_OpenProperty function (n_cst_dwsrv_property) 1056
of_OpenPropertyService function (n_cst_dwsrv_property) 1056
of_OpenPropertyService function (n_cst_dwsrv_property) 1057

n_cst_dwsrv_querymode 1057
n_cst_dwsrv_querymode 1059
n_cst_dwsrv_querymode 1059
n_cst_dwsrv_querymode 1059
pfc_Operators event (n_cst_dwsrv_querymode) 1060
pfc_Values event (n_cst_dwsrv_querymode) 1060
n_cst_dwsrv_querymode 1060
of_GetEnabled function (n_cst_dwsrv_querymode) 1061
of_GetEnabled function (n_cst_dwsrv_querymode) 1061
of_GetInfo function (n_cst_dwsrv_querymode) 1062
of_GetInfo function (n_cst_dwsrv_querymode) 1062
of_GetPropertyInfo function (n_cst_dwsrv_querymode) 1062
of_GetPropertyInfo function (n_cst_dwsrv_querymode) 1063
of_GetQueryCols function (n_cst_dwsrv_querymode) 1063
of_GetQueryCols function (n_cst_dwsrv_querymode) 1064
of_GetResetCriteria function (n_cst_dwsrv_querymode) 1064
of_GetResetCriteria function (n_cst_dwsrv_querymode) 1064
of_GetRetrieveOnDisabled function (n_cst_dwsrv_querymode) 1065
of_GetRetrieveOnDisabled function (n_cst_dwsrv_querymode) 1065
of_Load function (n_cst_dwsrv_querymode) 1065
of_Load function (n_cst_dwsrv_querymode) 1066
of_Save function (n_cst_dwsrv_querymode) 1066
of_Save function (n_cst_dwsrv_querymode) 1067
of_SetEnabled function (n_cst_dwsrv_querymode) 1068
of_SetEnabled function (n_cst_dwsrv_querymode) 1068
of_SetQueryCols function (n_cst_dwsrv_querymode) 1068
of_SetQueryCols function (n_cst_dwsrv_querymode) 1069
of_SetResetCriteria function (n_cst_dwsrv_querymode) 1069
of_SetResetCriteria function (n_cst_dwsrv_querymode) 1070
of_SetRetrieveOnDisabled function (n_cst_dwsrv_querymode) 1070
of_SetRetrieveOnDisabled function (n_cst_dwsrv_querymode) 1070
n_cst_dwsrv_report 1071
n_cst_dwsrv_report 1073
n_cst_dwsrv_report 1073
n_cst_dwsrv_report 1074
Constructor event (n_cst_dwsrv_report) 1074
Destructor event (n_cst_dwsrv_report) 1074
n_cst_dwsrv_report 1074
of_AddCompute function (n_cst_dwsrv_report) 1076
of_AddCompute function (n_cst_dwsrv_report) 1077
of_AddLine function (n_cst_dwsrv_report) 1078
Syntax 1 Add a line by specifying the x and y coordinates of the endpoints 1078
Syntax 1 Add a line by specifying the x and y coordinates of the endpoints 1079
Syntax 2 Add a line by specifying a VTextAlign enumerated data type 1079
Syntax 2 Add a line by specifying a VTextAlign enumerated data type 1080
of_AddPicture function (n_cst_dwsrv_report) 1081
of_AddPicture function (n_cst_dwsrv_report) 1082
of_AddText function (n_cst_dwsrv_report) 1082
of_AddText function (n_cst_dwsrv_report) 1084
of_BuildTextModify function (n_cst_dwsrv_report) 1084

of_BuildTextModify function (n_cst_dwsrv_report) 1086
of_CreateComposite function (n_cst_dwsrv_report) 1086
of_CreateComposite function (n_cst_dwsrv_report) 1087
of_GetDefaultBackColor function (n_cst_dwsrv_report) 1087
of_GetDefaultBackColor function (n_cst_dwsrv_report) 1088
of_GetDefaultBorder function (n_cst_dwsrv_report) 1088
of_GetDefaultBorder function (n_cst_dwsrv_report) 1089
of_GetDefaultCharset function (n_cst_dwsrv_report) 1089
of_GetDefaultCharset function (n_cst_dwsrv_report) 1089
of_GetDefaultColor function (n_cst_dwsrv_report) 1090
of_GetDefaultColor function (n_cst_dwsrv_report) 1090
of_GetDefaultFontFace function (n_cst_dwsrv_report) 1090
of_GetDefaultFontFace function (n_cst_dwsrv_report) 1091
of_GetDefaultFontSize function (n_cst_dwsrv_report) 1091
of_GetDefaultFontSize function (n_cst_dwsrv_report) 1091
of_GetInfo function (n_cst_dwsrv_report) 1092
of_GetInfo function (n_cst_dwsrv_report) 1092
of_GetPictureSize function (n_cst_dwsrv_report) 1092
of_GetPictureSize function (n_cst_dwsrv_report) 1093
of_GetPropertyInfo function (n_cst_dwsrv_report) 1093
of_GetPropertyInfo function (n_cst_dwsrv_report) 1094
of_GetTextSizePos function (n_cst_dwsrv_report) 1094
of_GetTextSizePos function (n_cst_dwsrv_report) 1095
of_GetUndoLevels function (n_cst_dwsrv_report) 1095
of_GetUndoLevels function (n_cst_dwsrv_report) 1096
of_PrepPrint function (n_cst_dwsrv_report) 1096
of_PrepPrint function (n_cst_dwsrv_report) 1097
of_PrintReport function (n_cst_dwsrv_report) 1097
of_PrintReport function (n_cst_dwsrv_report) 1098
of_ResetUndo function (n_cst_dwsrv_report) 1098
of_ResetUndo function (n_cst_dwsrv_report) 1098
of_SetBackground function (n_cst_dwsrv_report) 1099
Syntax 1 Add a background picture at its exact size 1099
Syntax 1 Add a background picture at its exact size 1100
Syntax 2 Add a background picture, sizing it to fit the DataWindow 1100
Syntax 2 Add a background picture, sizing it to fit the DataWindow 1101
of_SetBorder function (n_cst_dwsrv_report) 1101
of_SetBorder function (n_cst_dwsrv_report) 1102
of_SetColor function (n_cst_dwsrv_report) 1102
of_SetColor function (n_cst_dwsrv_report) 1103
of_SetDefaultBackColor function (n_cst_dwsrv_report) 1104
of_SetDefaultBackColor function (n_cst_dwsrv_report) 1104
of_SetDefaultBorder function (n_cst_dwsrv_report) 1104
of_SetDefaultBorder function (n_cst_dwsrv_report) 1105
of_SetDefaultCharset function (n_cst_dwsrv_report) 1105
of_SetDefaultCharset function (n_cst_dwsrv_report) 1106
of_SetDefaultColor function (n_cst_dwsrv_report) 1106
of_SetDefaultColor function (n_cst_dwsrv_report) 1106
of_SetDefaultFontFace function (n_cst_dwsrv_report) 1107
of_SetDefaultFontFace function (n_cst_dwsrv_report) 1107

of_SetDefaultFontSize function (n_cst_dwsrv_report) 1107
of_SetDefaultFontSize function (n_cst_dwsrv_report) 1108
of_SetFont function (n_cst_dwsrv_report) 1108
Syntax 1 Set the font, including bold, italic, and underline 1108
Syntax 1 Set the font, including bold, italic, and underline 1110
Syntax 2 Set the font, using defaults for bold, italic, and underline 1110
Syntax 2 Set the font, using defaults for bold, italic, and underline 1111
of_SetRelativeZoom function (n_cst_dwsrv_report) 1111
of_SetRelativeZoom function (n_cst_dwsrv_report) 1112
of_ShiftBand function (n_cst_dwsrv_report) 1112
of_ShiftBand function (n_cst_dwsrv_report) 1113
of_Undo function (n_cst_dwsrv_report) 1113
of_Undo function (n_cst_dwsrv_report) 1114
n_cst_dwsrv_reqcolumn 1114
n_cst_dwsrv_reqcolumn 1116
n_cst_dwsrv_reqcolumn 1116
n_cst_dwsrv_reqcolumn 1116
of_GetInfo function (n_cst_dwsrv_reqcolumn) 1117
of_GetInfo function (n_cst_dwsrv_reqcolumn) 1117
of_GetPropertyInfo function (n_cst_dwsrv_reqcolumn) 1117
of_GetPropertyInfo function (n_cst_dwsrv_reqcolumn) 1118
of_GetRegisterable function (n_cst_dwsrv_reqcolumn) 1118
of_GetRegisterable function (n_cst_dwsrv_reqcolumn) 1119
of_GetRegistered function (n_cst_dwsrv_reqcolumn) 1119
of_GetRegistered function (n_cst_dwsrv_reqcolumn) 1119
of_IsRegistered function (n_cst_dwsrv_reqcolumn) 1120
of_IsRegistered function (n_cst_dwsrv_reqcolumn) 1120
of_RegisterSkipColumn function (n_cst_dwsrv_reqcolumn) 1120
of_RegisterSkipColumn function (n_cst_dwsrv_reqcolumn) 1121
of_SetToNullIfEmpty function (n_cst_dwsrv_reqcolumn) 1121
of_SetToNullIfEmpty function (n_cst_dwsrv_reqcolumn) 1122
of_UnRegister function (n_cst_dwsrv_reqcolumn) 1122
of_UnRegister function (n_cst_dwsrv_reqcolumn) 1123
of_UpdateSkipString function (n_cst_dwsrv_reqcolumn) 1123
of_UpdateSkipString function (n_cst_dwsrv_reqcolumn) 1123
n_cst_dwsrv_resize 1124
n_cst_dwsrv_resize 1125
n_cst_dwsrv_resize 1126
n_cst_dwsrv_resize 1126
pfc_Resize event (n_cst_dwsrv_resize) 1127
n_cst_dwsrv_resize 1127
of_GetInfo function (n_cst_dwsrv_resize) 1128
of_GetInfo function (n_cst_dwsrv_resize) 1128
of_GetObjectInformation function (n_cst_dwsrv_resize) 1129
of_GetObjectInformation function (n_cst_dwsrv_resize) 1129
of_GetPropertyInfo function (n_cst_dwsrv_resize) 1130
of_GetPropertyInfo function (n_cst_dwsrv_resize) 1130
of_GetRegisterable function (n_cst_dwsrv_resize) 1130
of_GetRegisterable function (n_cst_dwsrv_resize) 1131
of_GetRegistered function (n_cst_dwsrv_resize) 1131

of_GetRegistered function (n_cst_dwsrv_resize) 1132
of_IsRegistered function (n_cst_dwsrv_resize) 1132
of_IsRegistered function (n_cst_dwsrv_resize) 1133
of_Register function (n_cst_dwsrv_resize) 1133
Syntax 1 Specify a DWObject variable and resize percentages 1133
Syntax 1 Specify a DWObject variable and resize percentages 1134
Syntax 2 Specify a DWObject variable and resize method 1134
Syntax 2 Specify a DWObject variable and resize method 1135
Syntax 3 Specify a string and resize percentages 1135
Syntax 3 Specify a string and resize percentages 1136
Syntax 4 Specify a string and resize method 1136
Syntax 4 Specify a string and resize method 1137
of_Resize function (n_cst_dwsrv_resize) 1137
of_Resize function (n_cst_dwsrv_resize) 1138
of_SetMinSize function (n_cst_dwsrv_resize) 1138
of_SetMinSize function (n_cst_dwsrv_resize) 1138
of_SetOrigSize function (n_cst_dwsrv_resize) 1139
of_SetOrigSize function (n_cst_dwsrv_resize) 1139
of_SetRequestor function (n_cst_dwsrv_resize) 1139
of_SetRequestor function (n_cst_dwsrv_resize) 1140
of_UnRegister function (n_cst_dwsrv_resize) 1140
Syntax 1 Specify a DWObject 1141
Syntax 1 Specify a DWObject 1141
Syntax 2 Specify a string 1141
Syntax 2 Specify a string 1142
n_cst_dwsrv_rowmanager 1142
n_cst_dwsrv_rowmanager 1144
n_cst_dwsrv_rowmanager 1144
n_cst_dwsrv_rowmanager 1144
pfc_AddRow event (n_cst_dwsrv_rowmanager) 1145
pfc_DeleteRow event (n_cst_dwsrv_rowmanager) 1145
pfc_InsertRow event (n_cst_dwsrv_rowmanager) 1145
pfc_RestoreRow event (n_cst_dwsrv_rowmanager) 1146
n_cst_dwsrv_rowmanager 1146
of_ConfirmDelete function (n_cst_dwsrv_rowmanager) 1146
of_ConfirmDelete function (n_cst_dwsrv_rowmanager) 1147
of_DeleteAll function (n_cst_dwsrv_rowmanager) 1147
of_DeleteAll function (n_cst_dwsrv_rowmanager) 1148
of_DeleteRow function (n_cst_dwsrv_rowmanager) 1148
of_DeleteRow function (n_cst_dwsrv_rowmanager) 1149
of_DeleteSelected function (n_cst_dwsrv_rowmanager) 1149
of_DeleteSelected function (n_cst_dwsrv_rowmanager) 1149
of_GetConfirmOnDelete function (n_cst_dwsrv_rowmanager) 1150
of_GetConfirmOnDelete function (n_cst_dwsrv_rowmanager) 1150
of_GetInfo function (n_cst_dwsrv_rowmanager) 1150
of_GetInfo function (n_cst_dwsrv_rowmanager) 1151
of_GetPropertyInfo function (n_cst_dwsrv_rowmanager) 1151
of_GetPropertyInfo function (n_cst_dwsrv_rowmanager) 1152
of_InsertRow function (n_cst_dwsrv_rowmanager) 1152
of_InsertRow function (n_cst_dwsrv_rowmanager) 1152

of_IsRestoreRow function (n_cst_dwsrv_rowmanager) 1153
of_IsRestoreRow function (n_cst_dwsrv_rowmanager) 1153
of_SetConfirmOnDelete function (n_cst_dwsrv_rowmanager) 1153
of_SetConfirmOnDelete function (n_cst_dwsrv_rowmanager) 1154
of_SetRestoreRow function (n_cst_dwsrv_rowmanager) 1154
of_SetRestoreRow function (n_cst_dwsrv_rowmanager) 1154
of_UnDelete function (n_cst_dwsrv_rowmanager) 1155
of_UnDelete function (n_cst_dwsrv_rowmanager) 1155
n_cst_dwsrv_rowselection 1156
n_cst_dwsrv_rowselection 1158
n_cst_dwsrv_rowselection 1158
n_cst_dwsrv_rowselection 1159
pfc_Clicked event (n_cst_dwsrv_rowselection) 1159
pfc_LButtonDown event (n_cst_dwsrv_rowselection) 1160
pfc_LButtonUp event (n_cst_dwsrv_rowselection) 1160
pfc_RButtonDown event (n_cst_dwsrv_rowselection) 1161
pfc_RButtonUp event (n_cst_dwsrv_rowselection) 1162
pfc_RowFocusChanged event (n_cst_dwsrv_rowselection) 1162
n_cst_dwsrv_rowselection 1163
of_ButtonUp function (n_cst_dwsrv_rowselection) 1164
of_ButtonUp function (n_cst_dwsrv_rowselection) 1164
of_GetInfo function (n_cst_dwsrv_rowselection) 1164
of_GetInfo function (n_cst_dwsrv_rowselection) 1165
of_GetPropertyInfo function (n_cst_dwsrv_rowselection) 1165
of_GetPropertyInfo function (n_cst_dwsrv_rowselection) 1166
of_GetStyle function (n_cst_dwsrv_rowselection) 1166
of_GetStyle function (n_cst_dwsrv_rowselection) 1166
of_InvertSelection function (n_cst_dwsrv_rowselection) 1167
of_InvertSelection function (n_cst_dwsrv_rowselection) 1167
of_IsKeyboard function (n_cst_dwsrv_rowselection) 1167
of_IsKeyboard function (n_cst_dwsrv_rowselection) 1168
of_KeybRowSelect function (n_cst_dwsrv_rowselection) 1168
of_KeybRowSelect function (n_cst_dwsrv_rowselection) 1168
of_KeybRowSelectExt function (n_cst_dwsrv_rowselection) 1169
of_KeybRowSelectExt function (n_cst_dwsrv_rowselection) 1169
of_RowSelect function (n_cst_dwsrv_rowselection) 1170
of_RowSelect function (n_cst_dwsrv_rowselection) 1170
of_RowSelectExt function (n_cst_dwsrv_rowselection) 1170
of_RowSelectExt function (n_cst_dwsrv_rowselection) 1171
of_RowSelectMulti function (n_cst_dwsrv_rowselection) 1171
of_RowSelectMulti function (n_cst_dwsrv_rowselection) 1172
of_RowSelectSingle function (n_cst_dwsrv_rowselection) 1172
of_RowSelectSingle function (n_cst_dwsrv_rowselection) 1172
of_SelectedCount function (n_cst_dwsrv_rowselection) 1173
of_SelectedCount function (n_cst_dwsrv_rowselection) 1173
of_SetKeyboard function (n_cst_dwsrv_rowselection) 1174
of_SetKeyboard function (n_cst_dwsrv_rowselection) 1174
of_SetStyle function (n_cst_dwsrv_rowselection) 1174
of_SetStyle function (n_cst_dwsrv_rowselection) 1175
n_cst_dwsrv_sort 1175

n_cst_dwsrv_sort 1177
n_cst_dwsrv_sort 1177
n_cst_dwsrv_sort 1178
pfc_Clicked event (n_cst_dwsrv_sort) 1178
pfc_SortDlg event (n_cst_dwsrv_sort) 1179
n_cst_dwsrv_sort 1179
of_BuildSortAttrib function (n_cst_dwsrv_sort) 1180
of_BuildSortAttrib function (n_cst_dwsrv_sort) 1180
of_GetColumnHeader function (n_cst_dwsrv_sort) 1181
of_GetColumnHeader function (n_cst_dwsrv_sort) 1181
of_GetExclude function (n_cst_dwsrv_sort) 1181
of_GetExclude function (n_cst_dwsrv_sort) 1182
of_GetInfo function (n_cst_dwsrv_sort) 1182
of_GetInfo function (n_cst_dwsrv_sort) 1183
of_GetPropertyInfo function (n_cst_dwsrv_sort) 1183
of_GetPropertyInfo function (n_cst_dwsrv_sort) 1183
of_GetRegisterable function (n_cst_dwsrv_sort) 1184
of_GetRegisterable function (n_cst_dwsrv_sort) 1184
of_GetSort function (n_cst_dwsrv_sort) 1185
of_GetSort function (n_cst_dwsrv_sort) 1185
of_GetStyle function (n_cst_dwsrv_sort) 1185
of_GetStyle function (n_cst_dwsrv_sort) 1186
of_GetUseDisplay function (n_cst_dwsrv_sort) 1186
of_GetUseDisplay function (n_cst_dwsrv_sort) 1186
of_GetVisibleOnly function (n_cst_dwsrv_sort) 1187
of_GetVisibleOnly function (n_cst_dwsrv_sort) 1187
of_ParseSortAttrib function (n_cst_dwsrv_sort) 1188
of_ParseSortAttrib function (n_cst_dwsrv_sort) 1188
of_SetColumnHeader function (n_cst_dwsrv_sort) 1188
of_SetColumnHeader function (n_cst_dwsrv_sort) 1189
of_SetExclude function (n_cst_dwsrv_sort) 1189
of_SetExclude function (n_cst_dwsrv_sort) 1190
of_SetSort function (n_cst_dwsrv_sort) 1190
of_SetSort function (n_cst_dwsrv_sort) 1190
of_SetStyle function (n_cst_dwsrv_sort) 1191
of_SetStyle function (n_cst_dwsrv_sort) 1191
of_SetUseDisplay function (n_cst_dwsrv_sort) 1192
of_SetUseDisplay function (n_cst_dwsrv_sort) 1192
of_SetVisibleOnly function (n_cst_dwsrv_sort) 1192
of_SetVisibleOnly function (n_cst_dwsrv_sort) 1193
of_Sort function (n_cst_dwsrv_sort) 1193
of_Sort function (n_cst_dwsrv_sort) 1194
of_UsesDisplayValue function (n_cst_dwsrv_sort) 1194
of_UsesDisplayValue function (n_cst_dwsrv_sort) 1194
n_cst_error 1195
n_cst_error 1197
n_cst_error 1197
n_cst_error 1198
Destructor event (n_cst_error) 1198
n_cst_error 1199

of_CreateLogText function (n_cst_error) 1200
of_CreateLogText function (n_cst_error) 1201
of_CreateNotifyText function (n_cst_error) 1201
of_CreateNotifyText function (n_cst_error) 1201
of_GetBeep function (n_cst_error) 1202
of_GetBeep function (n_cst_error) 1202
of_GetLogFile function (n_cst_error) 1202
of_GetLogFile function (n_cst_error) 1203
of_GetLogFileStyle function (n_cst_error) 1203
of_GetLogFileStyle function (n_cst_error) 1203
of_GetLogSeverity function (n_cst_error) 1204
of_GetLogSeverity function (n_cst_error) 1204
of_GetNotifyConnection function (n_cst_error) 1205
of_GetNotifyConnection function (n_cst_error) 1205
of_GetNotifyPreTitle function (n_cst_error) 1205
of_GetNotifyPreTitle function (n_cst_error) 1206
of_GetNotifySeverity function (n_cst_error) 1206
of_GetNotifySeverity function (n_cst_error) 1206
of_GetNotifyWho function (n_cst_error) 1207
of_GetNotifyWho function (n_cst_error) 1207
of_GetPredefinedSource function (n_cst_error) 1208
of_GetPredefinedSource function (n_cst_error) 1208
of_GetPredefinedSourceType function (n_cst_error) 1208
of_GetPredefinedSourceType function (n_cst_error) 1209
of_GetStyle function (n_cst_error) 1209
of_GetStyle function (n_cst_error) 1210
of_GetTimeOut function (n_cst_error) 1210
of_GetTimeOut function (n_cst_error) 1210
of_GetUnattended function (n_cst_error) 1211
of_GetUnattended function (n_cst_error) 1211
of_GetUser function (n_cst_error) 1211
of_GetUser function (n_cst_error) 1212
of_LoadPredefinedMsg function (n_cst_error) 1212
of_LoadPredefinedMsg function (n_cst_error) 1213
of_Message function (n_cst_error) 1213
Syntax 1 Display message text from the ids_messages DataStore 1213
Syntax 1 Display message text from the ids_messages DataStore 1214
Syntax 2 Display a message using a passed string 1214
Syntax 2 Display a message using a passed string 1215
of_ProcessLog function (n_cst_error) 1216
of_ProcessLog function (n_cst_error) 1216
of_ProcessMessage function (n_cst_error) 1216
of_ProcessMessage function (n_cst_error) 1217
of_ProcessMessageSubstitution function (n_cst_error) 1217
of_ProcessMessageSubstitution function (n_cst_error) 1218
of_ProcessNotify function (n_cst_error) 1218
of_ProcessNotify function (n_cst_error) 1218
of_SetBeep function (n_cst_error) 1219
of_SetBeep function (n_cst_error) 1219
of_SetLogFile function (n_cst_error) 1219

of_SetLogFile function (n_cst_error) 1220
of_SetLogFileStyle function (n_cst_error) 1220
of_SetLogFileStyle function (n_cst_error) 1221
of_SetLogSeverity function (n_cst_error) 1221
of_SetLogSeverity function (n_cst_error) 1221
of_SetNotifyConnection function (n_cst_error) 1222
of_SetNotifyConnection function (n_cst_error) 1222
of_SetNotifyPreTitle function (n_cst_error) 1222
of_SetNotifyPreTitle function (n_cst_error) 1223
of_SetNotifySeverity function (n_cst_error) 1223
of_SetNotifySeverity function (n_cst_error) 1224
of_SetNotifyWho function (n_cst_error) 1224
of_SetNotifyWho function (n_cst_error) 1224
of_SetPredefinedSource function (n_cst_error) 1225
of_SetPredefinedSource function (n_cst_error) 1225
of_SetStyle function (n_cst_error) 1226
of_SetStyle function (n_cst_error) 1226
of_SetTimeOut function (n_cst_error) 1227
of_SetTimeOut function (n_cst_error) 1227
of_SetUnattended function (n_cst_error) 1227
of_SetUnattended function (n_cst_error) 1228
of_SetUser function (n_cst_error) 1228
of_SetUser function (n_cst_error) 1229
n_cst_filesrv 1229
n_cst_filesrv 1230
n_cst_filesrv 1230
n_cst_filesrv 1230
n_cst_filesrv 1231
of_AssemblePath function (n_cst_filesrv) 1232
of_AssemblePath function (n_cst_filesrv) 1233
of_CalculateFileAttributes function (n_cst_filesrv) 1233
of_CalculateFileAttributes function (n_cst_filesrv) 1233
of_ChangeDirectory function (n_cst_filesrv) 1234
of_ChangeDirectory function (n_cst_filesrv) 1234
of_CreateDirectory function (n_cst_filesrv) 1234
of_CreateDirectory function (n_cst_filesrv) 1235
of_DelTree function (n_cst_filesrv) 1235
of_DelTree function (n_cst_filesrv) 1235
of_DirAttribToDS function (n_cst_filesrv) 1236
of_DirAttribToDS function (n_cst_filesrv) 1236
of_DirectoryExists function (n_cst_filesrv) 1237
of_DirectoryExists function (n_cst_filesrv) 1237
of_DirList function (n_cst_filesrv) 1237
of_DirList function (n_cst_filesrv) 1238
of_DSToDirAttrib function (n_cst_filesrv) 1238
of_DSToDirAttrib function (n_cst_filesrv) 1238
of_FileCopy function (n_cst_filesrv) 1239
of_FileCopy function (n_cst_filesrv) 1239
of_FileRead function (n_cst_filesrv) 1240
Syntax 1 To read a file into a Blob variable 1240

Syntax 1 To read a file into a Blob variable 1240
Syntax 2 To read a file into a string array 1241
Syntax 2 To read a file into a string array 1241
of_FileRename function (n_cst_filesrv) 1242
of_FileRename function (n_cst_filesrv) 1242
of_FileWrite function (n_cst_filesrv) 1242
Syntax 1 To write from a BLOB variable 1243
Syntax 1 To write from a BLOB variable 1243
Syntax 2 To write from a string 1243
Syntax 2 To write from a string 1244
of_GetAltFilename function (n_cst_filesrv) 1244
of_GetAltFilename function (n_cst_filesrv) 1245
of_GetCreationDate function (n_cst_filesrv) 1245
of_GetCreationDate function (n_cst_filesrv) 1245
of_GetCreationDateTime function (n_cst_filesrv) 1246
of_GetCreationDateTime function (n_cst_filesrv) 1246
of_GetCreationTime function (n_cst_filesrv) 1246
of_GetCreationTime function (n_cst_filesrv) 1247
of_GetCurrentDirectory function (n_cst_filesrv) 1247
of_GetCurrentDirectory function (n_cst_filesrv) 1247
of_GetDiskSpace function (n_cst_filesrv) 1248
of_GetDiskSpace function (n_cst_filesrv) 1248
of_GetDriveType function (n_cst_filesrv) 1248
of_GetDriveType function (n_cst_filesrv) 1249
of_GetFileAttributes function (n_cst_filesrv) 1249
of_GetFileAttributes function (n_cst_filesrv) 1249
of_GetFileSize function (n_cst_filesrv) 1250
of_GetFileSize function (n_cst_filesrv) 1250
of_GetLastAccessDate function (n_cst_filesrv) 1250
of_GetLastAccessDate function (n_cst_filesrv) 1251
of_GetLastWriteDate function (n_cst_filesrv) 1251
of_GetLastWriteDate function (n_cst_filesrv) 1251
of_GetLastWriteDateTime function (n_cst_filesrv) 1252
of_GetLastWriteDateTime function (n_cst_filesrv) 1252
of_GetLastWriteTime function (n_cst_filesrv) 1252
of_GetLastWriteTime function (n_cst_filesrv) 1253
of_GetLongFilename function (n_cst_filesrv) 1253
of_GetLongFilename function (n_cst_filesrv) 1253
of_GetSeparator function (n_cst_filesrv) 1254
of_GetSeparator function (n_cst_filesrv) 1254
of_IncludeFile function (n_cst_filesrv) 1254
of_IncludeFile function (n_cst_filesrv) 1255
of_ParsePath function (n_cst_filesrv) 1255
of_ParsePath function (n_cst_filesrv) 1256
of_RemoveDirectory function (n_cst_filesrv) 1256
of_RemoveDirectory function (n_cst_filesrv) 1256
of_SetCreationDateTime function (n_cst_filesrv) 1257
of_SetCreationDateTime function (n_cst_filesrv) 1257
of_SetFileArchive function (n_cst_filesrv) 1257
of_SetFileArchive function (n_cst_filesrv) 1258

of_SetFileAttributes function (n_cst_filesrv) 1258
of_SetFileAttributes function (n_cst_filesrv) 1258
of_SetFileHidden function (n_cst_filesrv) 1259
of_SetFileHidden function (n_cst_filesrv) 1259
of_SetFileReadonly function (n_cst_filesrv) 1259
of_SetFileReadonly function (n_cst_filesrv) 1260
of_SetFileSystem function (n_cst_filesrv) 1260
of_SetFileSystem function (n_cst_filesrv) 1260
of_SetLastAccessDate function (n_cst_filesrv) 1261
of_SetLastAccessDate function (n_cst_filesrv) 1261
of_SetLastWriteDateTime function (n_cst_filesrv) 1261
of_SetLastWriteDateTime function (n_cst_filesrv) 1262
of_SortDirList function (n_cst_filesrv) 1262
of_SortDirList function (n_cst_filesrv) 1262
n_cst_filesrvwin32 1263
n_cst_filesrvwin32 1265
n_cst_filesrvwin32 1265
Constructor event (n_cst_filesrvwin32) 1266
n_cst_filesrvwin32 1266
of_ChangeDirectory function (n_cst_filesrvwin32) 1267
of_ChangeDirectory function (n_cst_filesrvwin32) 1267
of_ConvertFileDateTimeToPB function (n_cst_filesrvwin32) 1268
of_ConvertFileDateTimeToPB function (n_cst_filesrvwin32) 1268
of_ConvertPBDateTimeToFile function (n_cst_filesrvwin32) 1269
of_ConvertPBDateTimeToFile function (n_cst_filesrvwin32) 1269
of_CreateDirectory function (n_cst_filesrvwin32) 1270
of_CreateDirectory function (n_cst_filesrvwin32) 1270
of_DirectoryExists function (n_cst_filesrvwin32) 1270
of_DirectoryExists function (n_cst_filesrvwin32) 1271
of_DirList function (n_cst_filesrvwin32) 1271
of_DirList function (n_cst_filesrvwin32) 1272
of_FileRename function (n_cst_filesrvwin32) 1272
of_FileRename function (n_cst_filesrvwin32) 1273
of_GetAltFilename function (n_cst_filesrvwin32) 1273
of_GetAltFilename function (n_cst_filesrvwin32) 1274
of_GetCreationDateTime function (n_cst_filesrvwin32) 1274
of_GetCreationDateTime function (n_cst_filesrvwin32) 1274
of_GetCurrentDirectory function (n_cst_filesrvwin32) 1275
of_GetCurrentDirectory function (n_cst_filesrvwin32) 1275
of_GetDiskSpace function (n_cst_filesrvwin32) 1276
of_GetDiskSpace function (n_cst_filesrvwin32) 1276
of_GetDriveType function (n_cst_filesrvwin32) 1277
of_GetDriveType function (n_cst_filesrvwin32) 1277
of_GetFileAttributes function (n_cst_filesrvwin32) 1278
of_GetFileAttributes function (n_cst_filesrvwin32) 1278
of_GetFileSize function (n_cst_filesrvwin32) 1279
of_GetFileSize function (n_cst_filesrvwin32) 1279
of_GetLastAccessDate function (n_cst_filesrvwin32) 1280
of_GetLastAccessDate function (n_cst_filesrvwin32) 1280
of_GetLastWriteDateTime function (n_cst_filesrvwin32) 1280

of_GetLastWriteDateTime function (n_cst_filesrvwin32) 1281
of_GetLongFilename function (n_cst_filesrvwin32) 1281
of_GetLongFilename function (n_cst_filesrvwin32) 1282
of_RemoveDirectory function (n_cst_filesrvwin32) 1282
of_RemoveDirectory function (n_cst_filesrvwin32) 1283
of_SetCreationDateTime function (n_cst_filesrvwin32) 1283
of_SetCreationDateTime function (n_cst_filesrvwin32) 1284
of_SetFileAttributes function (n_cst_filesrvwin32) 1284
of_SetFileAttributes function (n_cst_filesrvwin32) 1285
of_SetLastAccessDate function (n_cst_filesrvwin32) 1285
of_SetLastAccessDate function (n_cst_filesrvwin32) 1286
of_SetLastWriteDateTime function (n_cst_filesrvwin32) 1286
of_SetLastWriteDateTime function (n_cst_filesrvwin32) 1287
n_cst_inifile 1287
n_cst_inifile 1288
n_cst_inifile 1288
Constructor event (n_cst_inifile) 1288
n_cst_inifile 1289
of_Delete function (n_cst_inifile) 1289
of_Delete function (n_cst_inifile) 1289
of_GetKeys function (n_cst_inifile) 1290
of_GetKeys function (n_cst_inifile) 1290
of_GetLineEnding function (n_cst_inifile) 1291
of_GetLineEnding function (n_cst_inifile) 1291
of_GetSections function (n_cst_inifile) 1291
of_GetSections function (n_cst_inifile) 1292
of_SetLineEnding function (n_cst_inifile) 1292
of_SetLineEnding function (n_cst_inifile) 1293
n_cst_linkedlistbase 1293
n_cst_linkedlistbase 1294
n_cst_linkedlistbase 1294
n_cst_linkedlistbase 1295
n_cst_linkedlistbase 1295
Destructor event (n_cst_linkedlistbase) 1295
n_cst_linkedlistbase 1295
of_Add function (n_cst_linkedlistbase) 1296
of_Add function (n_cst_linkedlistbase) 1296
of_AddHead function (n_cst_linkedlistbase) 1297
of_AddHead function (n_cst_linkedlistbase) 1297
of_AddTail function (n_cst_linkedlistbase) 1297
of_AddTail function (n_cst_linkedlistbase) 1298
of_Count function (n_cst_linkedlistbase) 1298
of_Count function (n_cst_linkedlistbase) 1299
of_Destroy function (n_cst_linkedlistbase) 1299
of_Destroy function (n_cst_linkedlistbase) 1299
of_Get function (n_cst_linkedlistbase) 1299
of_Get function (n_cst_linkedlistbase) 1300
of_IsCompareObjectAssigned function (n_cst_linkedlistbase) 1300
of_IsCompareObjectAssigned function (n_cst_linkedlistbase) 1301
of_IsEmpty function (n_cst_linkedlistbase) 1301

of_IsEmpty function (n_cst_linkedlistbase) 1301
of_Remove function (n_cst_linkedlistbase) 1302
of_RemoveHead function (n_cst_linkedlistbase) 1302
of_RemoveHead function (n_cst_linkedlistbase) 1303
of_RemoveTail function (n_cst_linkedlistbase) 1303
of_RemoveTail function (n_cst_linkedlistbase) 1303
of_SetCompare function (n_cst_linkedlistbase) 1303
of_SetCompare function (n_cst_linkedlistbase) 1304
n_cst_linkedlistnode 1304
n_cst_linkedlistnode 1305
n_cst_linkedlistnodecompare 1306
n_cst_linkedlistnodecompare 1308
n_cst_list 1308
n_cst_list 1310
n_cst_list 1310
n_cst_list 1311
of_Add function (n_cst_list) 1311
of_Add function (n_cst_list) 1312
of_AddHead function (n_cst_list) 1312
of_AddHead function (n_cst_list) 1312
of_AddTail function (n_cst_list) 1313
of_AddTail function (n_cst_list) 1313
of_Find function (n_cst_list) 1313
of_Find function (n_cst_list) 1314
of_IsDuplicatesAllowed function (n_cst_list) 1314
of_IsDuplicatesAllowed function (n_cst_list) 1315
of_IsInList function (n_cst_list) 1315
of_IsInList function (n_cst_list) 1315
of_IsSorted function (n_cst_list) 1316
of_IsSorted function (n_cst_list) 1316
of_Remove function (n_cst_list) 1316
of_Remove function (n_cst_list) 1317
of_RemoveHead function (n_cst_list) 1317
of_RemoveHead function (n_cst_list) 1318
of_RemoveTail function (n_cst_list) 1318
of_RemoveTail function (n_cst_list) 1319
of_SetDuplicatesAllowed function (n_cst_list) 1319
of_SetDuplicatesAllowed function (n_cst_list) 1319
of_SetSorted function (n_cst_list) 1319
of_SetSorted function (n_cst_list) 1320
n_cst_luw 1320
n_cst_luw 1321
n_cst_luw 1322
n_cst_luw 1322
Constructor event (n_cst_luw) 1323
n_cst_luw 1323
of_AcceptText function (n_cst_luw) 1324
of_AcceptText function (n_cst_luw) 1324
of_BeginTran function (n_cst_luw) 1325
of_BeginTran function (n_cst_luw) 1325

of_DBError function (n_cst_luw) 1325
of_DBError function (n_cst_luw) 1326
of_EndTran function (n_cst_luw) 1326
of_EndTran function (n_cst_luw) 1327
of_EndTranError function (n_cst_luw) 1327
of_EndTranError function (n_cst_luw) 1327
of_GetType function (n_cst_luw) 1328
of_GetType function (n_cst_luw) 1328
of_GetTypeToProcess function (n_cst_luw) 1329
of_GetTypeToProcess function (n_cst_luw) 1329
of_GetUpdateRequestor function (n_cst_luw) 1329
of_GetUpdateRequestor function (n_cst_luw) 1330
of_IsAlwaysValidate function (n_cst_luw) 1330
of_IsAlwaysValidate function (n_cst_luw) 1330
of_IsSelfUpdatingObject function (n_cst_luw) 1331
of_IsSelfUpdatingObject function (n_cst_luw) 1331
of_PostUpdate function (n_cst_luw) 1331
of_PostUpdate function (n_cst_luw) 1332
of_PreUpdate function (n_cst_luw) 1332
of_PreUpdate function (n_cst_luw) 1333
of_Save function (n_cst_luw) 1333
of_Save function (n_cst_luw) 1334
of_SetAlwaysValidate function (n_cst_luw) 1334
of_SetAlwaysValidate function (n_cst_luw) 1335
of_SetDBErrorMsg function (n_cst_luw) 1335
of_SetDBErrorMsg function (n_cst_luw) 1335
of_SetRequestor function (n_cst_luw) 1336
of_SetRequestor function (n_cst_luw) 1336
of_SetTypeToProcess function (n_cst_luw) 1336
of_SetTypeToProcess function (n_cst_luw) 1337
of_SetUpdateRequestor function (n_cst_luw) 1337
of_SetUpdateRequestor function (n_cst_luw) 1338
of_Update function (n_cst_luw) 1338
of_Update function (n_cst_luw) 1338
of_UpdatePrep function (n_cst_luw) 1339
of_UpdatePrep function (n_cst_luw) 1339
of_UpdatesPending function (n_cst_luw) 1340
of_UpdatesPending function (n_cst_luw) 1340
of_Validation function (n_cst_luw) 1340
of_Validation function (n_cst_luw) 1341
n_cst_lvsrv 1341
n_cst_lvsrv 1342
n_cst_lvsrv 1342
n_cst_lvsrv 1343
n_cst_lvsrv 1343
of_FindNext function (n_cst_lvsrv) 1343
of_FindNext function (n_cst_lvsrv) 1344
of_FindSelected function (n_cst_lvsrv) 1344
of_FindSelected function (n_cst_lvsrv) 1345
of_GetDisplayItem function (n_cst_lvsrv) 1345

of_GetDisplayItem function (n_cst_lvsrv) 1346
of_GetDisplayUnits function (n_cst_lvsrv) 1346
of_GetDisplayUnits function (n_cst_lvsrv) 1346
of_SetDisplayItem function (n_cst_lvsrv) 1347
of_SetDisplayItem function (n_cst_lvsrv) 1347
of_SetDisplayUnits function (n_cst_lvsrv) 1347
of_SetDisplayUnits function (n_cst_lvsrv) 1348
of_SetRequestor function (n_cst_lvsrv) 1348
of_SetRequestor function (n_cst_lvsrv) 1349
n_cst_lvsrv_datasource 1349
n_cst_lvsrv_datasource 1351
n_cst_lvsrv_datasource 1351
n_cst_lvsrv_datasource 1352
Constructor event (n_cst_lvsrv_datasource) 1353
Destructor event (n_cst_lvsrv_datasource) 1353
pfc_DeleteItem event (n_cst_lvsrv_datasource) 1353
pfc_DeleteItem event (n_cst_lvsrv_datasource) 1354
pfc_EndLabelEdit event (n_cst_lvsrv_datasource) 1354
pfc_EndLabelEdit event (n_cst_lvsrv_datasource) 1354
pfc_InsertItem event (n_cst_lvsrv_datasource) 1355
pfc_InsertItem event (n_cst_lvsrv_datasource) 1355
pfc_Refresh event (n_cst_lvsrv_datasource) 1356
pfc_Refresh event (n_cst_lvsrv_datasource) 1356
pfc_RefreshItem event (n_cst_lvsrv_datasource) 1356
pfc_RefreshItem event (n_cst_lvsrv_datasource) 1357
pfc_SetItemAttributes event (n_cst_lvsrv_datasource) 1357
pfc_Undo event (n_cst_lvsrv_datasource) 1357
pfc_Undo event (n_cst_lvsrv_datasource) 1358
pfc_UndoDelete event (n_cst_lvsrv_datasource) 1358
pfc_UndoDelete event (n_cst_lvsrv_datasource) 1358
pfc_UndoEdit event (n_cst_lvsrv_datasource) 1359
pfc_UndoEdit event (n_cst_lvsrv_datasource) 1359
pfc_UndoInsert event (n_cst_lvsrv_datasource) 1359
pfc_UndoInsert event (n_cst_lvsrv_datasource) 1360
n_cst_lvsrv_datasource 1360
of_CanUndo function (n_cst_lvsrv_datasource) 1362
of_CanUndo function (n_cst_lvsrv_datasource) 1362
of_ClearUndo function (n_cst_lvsrv_datasource) 1363
of_ClearUndo function (n_cst_lvsrv_datasource) 1363
of_ConfirmDelete function (n_cst_lvsrv_datasource) 1363
of_ConfirmDelete function (n_cst_lvsrv_datasource) 1364
of_ConfirmOnDelete function (n_cst_lvsrv_datasource) 1364
of_ConfirmOnDelete function (n_cst_lvsrv_datasource) 1364
of_ConvertToRow function (n_cst_lvsrv_datasource) 1365
of_ConvertToRow function (n_cst_lvsrv_datasource) 1365
of_DecodeKey function (n_cst_lvsrv_datasource) 1366
of_DecodeKey function (n_cst_lvsrv_datasource) 1366
of_DeleteItem function (n_cst_lvsrv_datasource) 1366
of_DeleteItem function (n_cst_lvsrv_datasource) 1367
of_EncodeKey function (n_cst_lvsrv_datasource) 1367

of_EncodeKey function (n_cst_lvsrv_datasource) 1368
of_FormatData function (n_cst_lvsrv_datasource) 1368
of_FormatData function (n_cst_lvsrv_datasource) 1368
of_GetAttributes function (n_cst_lvsrv_datasource) 1369
of_GetAttributes function (n_cst_lvsrv_datasource) 1369
of_GetColumnInfo function (n_cst_lvsrv_datasource) 1370
of_GetColumnInfo function (n_cst_lvsrv_datasource) 1370
of_GetDataObject function (n_cst_lvsrv_datasource) 1370
of_GetDataObject function (n_cst_lvsrv_datasource) 1371
of_GetDataRow function (n_cst_lvsrv_datasource) 1371
of_GetDataRow function (n_cst_lvsrv_datasource) 1372
of_GetDataSource function (n_cst_lvsrv_datasource) 1372
of_GetDataSource function (n_cst_lvsrv_datasource) 1372
of_GetIndex function (n_cst_lvsrv_datasource) 1373
of_GetIndex function (n_cst_lvsrv_datasource) 1373
of_GetLabelColumn function (n_cst_lvsrv_datasource) 1373
of_GetLabelColumn function (n_cst_lvsrv_datasource) 1374
of_GetMethod function (n_cst_lvsrv_datasource) 1374
of_GetMethod function (n_cst_lvsrv_datasource) 1375
of_GetOverlayPictureColumn function (n_cst_lvsrv_datasource) 1375
of_GetOverlayPictureColumn function (n_cst_lvsrv_datasource) 1375
of_GetPictureColumn function (n_cst_lvsrv_datasource) 1376
of_GetPictureColumn function (n_cst_lvsrv_datasource) 1376
of_GetStatePictureColumn function (n_cst_lvsrv_datasource) 1376
of_GetStatePictureColumn function (n_cst_lvsrv_datasource) 1377
of_GetTransObject function (n_cst_lvsrv_datasource) 1377
of_GetTransObject function (n_cst_lvsrv_datasource) 1378
of_GetXPosColumn function (n_cst_lvsrv_datasource) 1378
of_GetXPosColumn function (n_cst_lvsrv_datasource) 1378
of_GetYPosColumn function (n_cst_lvsrv_datasource) 1379
of_GetYPosColumn function (n_cst_lvsrv_datasource) 1379
of_InsertItem function (n_cst_lvsrv_datasource) 1379
of_InsertItem function (n_cst_lvsrv_datasource) 1380
of_IsConfirmOnDelete function (n_cst_lvsrv_datasource) 1380
of_IsConfirmOnDelete function (n_cst_lvsrv_datasource) 1381
of_Refresh function (n_cst_lvsrv_datasource) 1381
of_Refresh function (n_cst_lvsrv_datasource) 1381
of_Register function (n_cst_lvsrv_datasource) 1382
Syntax 1 To display data retrieved via a DataWindow object 1382
Syntax 1 To display data retrieved via a DataWindow object 1383
Syntax 2 To display data retrieved via a SQL statement 1383
Syntax 2 To display data retrieved via a SQL statement 1384
Syntax 3 To display data from a DataWindow control 1384
Syntax 3 To display data from a DataWindow control 1385
Syntax 4 To display data from a DataStore 1385
Syntax 4 To display data from a DataStore 1386
Syntax 5 To display passed data 1386
Syntax 5 To display passed data 1387
Syntax 6 To display data from a file 1387
Syntax 6 To display data from a file 1388

of_RegisterDataSource function (n_cst_lvsrv_datasource) 1388
of_RegisterDataSource function (n_cst_lvsrv_datasource) 1389
of_RegisterReportColumn function (n_cst_lvsrv_datasource) 1389
of_RegisterReportColumn function (n_cst_lvsrv_datasource) 1390
of_Reset function (n_cst_lvsrv_datasource) 1390
of_Reset function (n_cst_lvsrv_datasource) 1391
of_ResetList function (n_cst_lvsrv_datasource) 1391
of_ResetList function (n_cst_lvsrv_datasource) 1391
of_ResetUpdate function (n_cst_lvsrv_datasource) 1392
of_ResetUpdate function (n_cst_lvsrv_datasource) 1392
of_Retrieve function (n_cst_lvsrv_datasource) 1392
of_Retrieve function (n_cst_lvsrv_datasource) 1393
of_SetCache function (n_cst_lvsrv_datasource) 1393
of_SetCache function (n_cst_lvsrv_datasource) 1393
of_SetConfirmOnDelete function (n_cst_lvsrv_datasource) 1394
of_SetConfirmOnDelete function (n_cst_lvsrv_datasource) 1394
of_SetItemAttributes function (n_cst_lvsrv_datasource) 1394
of_SetItemAttributes function (n_cst_lvsrv_datasource) 1395
of_SetOverlayPictureColumn function (n_cst_lvsrv_datasource) 1395
of_SetOverlayPictureColumn function (n_cst_lvsrv_datasource) 1396
of_SetPictureColumn function (n_cst_lvsrv_datasource) 1396
of_SetPictureColumn function (n_cst_lvsrv_datasource) 1397
of_SetStatePictureColumn function (n_cst_lvsrv_datasource) 1397
of_SetStatePictureColumn function (n_cst_lvsrv_datasource) 1397
of_SetUndo function (n_cst_lvsrv_datasource) 1398
of_SetUndo function (n_cst_lvsrv_datasource) 1398
of_SetXPosColumn function (n_cst_lvsrv_datasource) 1398
of_SetXPosColumn function (n_cst_lvsrv_datasource) 1399
of_SetYPosColumn function (n_cst_lvsrv_datasource) 1399
of_SetYPosColumn function (n_cst_lvsrv_datasource) 1400
of_UnRegister function (n_cst_lvsrv_datasource) 1400
of_UnRegister function (n_cst_lvsrv_datasource) 1400
of_UnRegisterReportColumn function (n_cst_lvsrv_datasource) 1401
of_UnRegisterReportColumn function (n_cst_lvsrv_datasource) 1401
of_Update function (n_cst_lvsrv_datasource) 1401
of_Update function (n_cst_lvsrv_datasource) 1402
n_cst_lvsrv_sort 1402
n_cst_lvsrv_sort 1403
n_cst_lvsrv_sort 1403
n_cst_lvsrv_sort 1404
pfc_ColumnClick event (n_cst_lvsrv_sort) 1404
pfc_ColumnClick event (n_cst_lvsrv_sort) 1404
pfc_Sort event (n_cst_lvsrv_sort) 1405
pfc_Sort event (n_cst_lvsrv_sort) 1405
n_cst_lvsrv_sort 1405
of_GetExclude function (n_cst_lvsrv_sort) 1406
of_GetExclude function (n_cst_lvsrv_sort) 1406
of_IsColumnHeader function (n_cst_lvsrv_sort) 1407
of_IsColumnHeader function (n_cst_lvsrv_sort) 1407
of_IsExclude function (n_cst_lvsrv_sort) 1407

of_IsExclude function (n_cst_lvsrv_sort) 1408
of_SetColumnHeader function (n_cst_lvsrv_sort) 1408
of_SetColumnHeader function (n_cst_lvsrv_sort) 1408
of_SetExclude function (n_cst_lvsrv_sort) 1409
of_SetExclude function (n_cst_lvsrv_sort) 1409
n_cst_menu 1409
n_cst_menu 1410
n_cst_menu 1410
of_GetAllToolbarIndex function (n_cst_menu) 1411
of_GetAllToolbarIndex function (n_cst_menu) 1411
of_GetMDIFrame function (n_cst_menu) 1412
of_GetMDIFrame function (n_cst_menu) 1412
of_GetMenuReference function (n_cst_menu) 1412
of_GetMenuReference function (n_cst_menu) 1413
of_IsInArray function (n_cst_menu) 1413
of_IsInArray function (n_cst_menu) 1414
of_SendMessage function (n_cst_menu) 1414
of_SendMessage function (n_cst_menu) 1414
of_ToolbarExists function (n_cst_menu) 1415
of_ToolbarExists function (n_cst_menu) 1415
of_TriggerEvent function (n_cst_menu) 1415
of_TriggerEvent function (n_cst_menu) 1416
n_cst_metaclass 1416
n_cst_metaclass 1417
n_cst_metaclass 1417
of_FindMatchingEvent function (n_cst_metaclass) 1418
of_FindMatchingEvent function (n_cst_metaclass) 1418
of_FindMatchingVariable function (n_cst_metaclass) 1419
of_FindMatchingVariable function (n_cst_metaclass) 1419
of_GetAncestorClasses function (n_cst_metaclass) 1420
of_GetAncestorClasses function (n_cst_metaclass) 1420
of_IsAncestorClass function (n_cst_metaclass) 1421
of_IsAncestorClass function (n_cst_metaclass) 1421
of_IsEventDefined function (n_cst_metaclass) 1421
of_IsEventDefined function (n_cst_metaclass) 1422
of_IsEventImplemented function (n_cst_metaclass) 1422
of_IsEventImplemented function (n_cst_metaclass) 1423
of_IsFunctionDefined function (n_cst_metaclass) 1423
of_IsFunctionDefined function (n_cst_metaclass) 1424
n_cst_mru 1424
n_cst_mru 1426
n_cst_mru 1427
n_cst_mru 1427
Constructor event (n_cst_mru) 1428
Destructor event (n_cst_mru) 1428
pfc_Close event (n_cst_mru) 1428
pfc_Decode event (n_cst_mru) 1429
pfc_Encode event (n_cst_mru) 1429
pfc_Open event (n_cst_mru) 1430
n_cst_mru 1430

of_AddItem function (n_cst_mru) 1431
of_AddItem function (n_cst_mru) 1432
of_AddMenubarLine function (n_cst_mru) 1432
of_AddMenubarLine function (n_cst_mru) 1432
of_Filter function (n_cst_mru) 1433
of_Filter function (n_cst_mru) 1433
of_FindItem function (n_cst_mru) 1433
of_FindItem function (n_cst_mru) 1434
of_GetItem function (n_cst_mru) 1434
of_GetItem function (n_cst_mru) 1435
of_GetRegistered function (n_cst_mru) 1435
of_GetRegistered function (n_cst_mru) 1435
of_GetUserIniFile function (n_cst_mru) 1436
of_GetUserIniFile function (n_cst_mru) 1436
of_GetUserKey function (n_cst_mru) 1436
of_GetUserKey function (n_cst_mru) 1437
of_IsRegistered function (n_cst_mru) 1437
of_IsRegistered function (n_cst_mru) 1437
of_Load function (n_cst_mru) 1438
of_Load function (n_cst_mru) 1438
of_Read function (n_cst_mru) 1438
of_Read function (n_cst_mru) 1439
of_ReadKeys function (n_cst_mru) 1439
of_ReadKeys function (n_cst_mru) 1440
of_Register function (n_cst_mru) 1440
of_Register function (n_cst_mru) 1441
of_Reset function (n_cst_mru) 1441
of_Reset function (n_cst_mru) 1441
of_Restore function (n_cst_mru) 1442
of_Restore function (n_cst_mru) 1442
of_Save function (n_cst_mru) 1442
of_Save function (n_cst_mru) 1443
of_SetDelimiter function (n_cst_mru) 1443
of_SetDelimiter function (n_cst_mru) 1444
of_SetItemCount function (n_cst_mru) 1444
of_SetItemCount function (n_cst_mru) 1444
of_SetUseRegistry function (n_cst_mru) 1445
of_SetUseRegistry function (n_cst_mru) 1445
of_SetUserIniFile function (n_cst_mru) 1445
of_SetUserIniFile function (n_cst_mru) 1446
of_SetUserKey function (n_cst_mru) 1446
of_SetUserKey function (n_cst_mru) 1447
of_Sort function (n_cst_mru) 1447
of_Sort function (n_cst_mru) 1448
of_UnRegister function (n_cst_mru) 1448
of_UnRegister function (n_cst_mru) 1448
of_UpdateVisuals function (n_cst_mru) 1449
of_UpdateVisuals function (n_cst_mru) 1449
of_Write function (n_cst_mru) 1449
of_Write function (n_cst_mru) 1450

of_WriteKeys function (n_cst_mru) 1450
of_WriteKeys function (n_cst_mru) 1451
n_cst_nodebase 1451
n_cst_nodebase 1452
n_cst_nodebase 1452
n_cst_nodebase 1452
n_cst_nodebase 1452
of_CopyTo function (n_cst_nodebase) 1453
of_CopyTo function (n_cst_nodebase) 1453
of_GetData function (n_cst_nodebase) 1454
of_GetData function (n_cst_nodebase) 1454
of_GetKey function (n_cst_nodebase) 1454
of_GetKey function (n_cst_nodebase) 1455
of_GetNext function (n_cst_nodebase) 1455
of_GetNext function (n_cst_nodebase) 1456
of_GetPrev function (n_cst_nodebase) 1456
of_GetPrev function (n_cst_nodebase) 1456
of_SetData function (n_cst_nodebase) 1457
of_SetData function (n_cst_nodebase) 1457
of_SetKey function (n_cst_nodebase) 1457
of_SetKey function (n_cst_nodebase) 1458
of_SetNext function (n_cst_nodebase) 1458
of_SetNext function (n_cst_nodebase) 1458
of_SetPrev function (n_cst_nodebase) 1459
of_SetPrev function (n_cst_nodebase) 1459
n_cst_nodecomparebase 1459
n_cst_nodecomparebase 1460
n_cst_nodecomparebase 1460
n_cst_nodecomparebase 1460
n_cst_nodecomparebase 1461
of_Compare function (n_cst_nodecomparebase) 1461
Syntax 1 To compare two nodes 1461
Syntax 1 To compare two nodes 1462
Syntax 2 To compare two values 1462
Syntax 2 To compare two values 1463
n_cst_numerical 1463
n_cst_numerical 1464
n_cst_numerical 1464
of_Binary function (n_cst_numerical) 1465
of_Binary function (n_cst_numerical) 1465
of_BitwiseAnd function (n_cst_numerical) 1465
of_BitwiseAnd function (n_cst_numerical) 1466
of_BitwiseNot function (n_cst_numerical) 1466
of_BitwiseNot function (n_cst_numerical) 1467
of_BitwiseOr function (n_cst_numerical) 1467
of_BitwiseOr function (n_cst_numerical) 1467
of_BitwiseXor function (n_cst_numerical) 1468
of_BitwiseXor function (n_cst_numerical) 1468
of_Decimal function (n_cst_numerical) 1469
of_Decimal function (n_cst_numerical) 1469

of_GetBit function (n_cst_numerical) 1469
of_GetBit function (n_cst_numerical) 1470
n_cst_platform 1470
n_cst_platform 1471
n_cst_platform 1471
n_cst_platform 1472
n_cst_platform 1472
of_FindWindow function (n_cst_platform) 1473
of_FindWindow function (n_cst_platform) 1473
of_GetComputerName function (n_cst_platform) 1473
of_GetComputerName function (n_cst_platform) 1474
of_GetFreeMemory function (n_cst_platform) 1474
of_GetFreeMemory function (n_cst_platform) 1474
of_GetPhysicalMemory function (n_cst_platform) 1474
of_GetPhysicalMemory function (n_cst_platform) 1475
of_GetSystemDirectory function (n_cst_platform) 1475
of_GetSystemDirectory function (n_cst_platform) 1475
of_GetTextSize function (n_cst_platform) 1475
of_GetTextSize function (n_cst_platform) 1476
of_GetUserID function (n_cst_platform) 1476
of_GetUserID function (n_cst_platform) 1477
of_GetWindowsDirectory function (n_cst_platform) 1477
of_GetWindowsDirectory function (n_cst_platform) 1477
of_GetWindowText function (n_cst_platform) 1477
of_GetWindowText function (n_cst_platform) 1478
of_PageSetupDlg function (n_cst_platform) 1478
of_PlaySound function (n_cst_platform) 1478
of_PlaySound function (n_cst_platform) 1479
of_PrintDlg function (n_cst_platform) 1479
of_PrintDlg function (n_cst_platform) 1479
of_SetFindWindowClasses function (n_cst_platform) 1480
of_SetFindWindowClasses function (n_cst_platform) 1480
n_cst_platformwin32 1480
n_cst_platformwin32 1482
n_cst_platformwin32 1482
Constructor event (n_cst_platformwin32) 1482
n_cst_platformwin32 1482
of_FindWindow function (n_cst_platformwin32) 1483
of_FindWindow function (n_cst_platformwin32) 1483
of_GetComputerName function (n_cst_platformwin32) 1484
of_GetComputerName function (n_cst_platformwin32) 1484
of_GetFreeMemory function (n_cst_platformwin32) 1484
of_GetFreeMemory function (n_cst_platformwin32) 1485
of_GetPhysicalMemory function (n_cst_platformwin32) 1485
of_GetPhysicalMemory function (n_cst_platformwin32) 1485
of_GetSystemDirectory function (n_cst_platformwin32) 1486
of_GetSystemDirectory function (n_cst_platformwin32) 1486
of_GetTextSize function (n_cst_platformwin32) 1487
of_GetTextSize function (n_cst_platformwin32) 1487
of_GetUserID function (n_cst_platformwin32) 1488

of_GetUserID function (n_cst_platformwin32) 1488
of_GetWindowsDirectory function (n_cst_platformwin32) 1488
of_GetWindowsDirectory function (n_cst_platformwin32) 1489
of_GetWindowText function (n_cst_platformwin32) 1489
of_GetWindowText function (n_cst_platformwin32) 1490
of_PlaySound function (n_cst_platformwin32) 1490
of_PlaySound function (n_cst_platformwin32) 1490
of_PrintDlg function (n_cst_platformwin32) 1491
of_PrintDlg function (n_cst_platformwin32) 1491
n_cst_queue 1492
n_cst_queue 1493
n_cst_queue 1493
of_Get function (n_cst_queue) 1494
of_Get function (n_cst_queue) 1494
of_Put function (n_cst_queue) 1494
of_Put function (n_cst_queue) 1495
n_cst_resize 1495
n_cst_resize 1497
n_cst_resize 1497
n_cst_resize 1498
pfc_Resize event (n_cst_resize) 1498
n_cst_resize 1499
of_GetMinMaxPoints function (n_cst_resize) 1499
of_GetMinMaxPoints function (n_cst_resize) 1500
of_Register function (n_cst_resize) 1500
Syntax 1 Register by specifying resize and move percentages 1500
Syntax 1 Register by specifying resize and move percentages 1501
Syntax 2 Register by specifying a resize method 1501
Syntax 2 Register by specifying a resize method 1502
of_Resize function (n_cst_resize) 1502
of_Resize function (n_cst_resize) 1503
of_SetMinSize function (n_cst_resize) 1503
of_SetMinSize function (n_cst_resize) 1503
of_SetOrigSize function (n_cst_resize) 1504
of_SetOrigSize function (n_cst_resize) 1504
of_TypeOf function (n_cst_resize) 1504
of_TypeOf function (n_cst_resize) 1505
of_UnRegister function (n_cst_resize) 1505
of_UnRegister function (n_cst_resize) 1506
n_cst_rtefind 1506
n_cst_rtefind 1507
n_cst_rtefind 1507
n_cst_rtefind 1507
pfc_FindDlg event (n_cst_rtefind) 1508
pfc_FindNext event (n_cst_rtefind) 1508
pfc_Replace event (n_cst_rtefind) 1509
pfc_ReplaceAll event (n_cst_rtefind) 1509
pfc_ReplaceDlg event (n_cst_rtefind) 1509
n_cst_rtefind 1510
of_CompareAttrib function (n_cst_rtefind) 1510

of_CompareAttrib function (n_cst_rtefind) 1510
of_Initialize function (n_cst_rtefind) 1511
of_Initialize function (n_cst_rtefind) 1511
of_IsOngoingFind function (n_cst_rtefind) 1512
of_IsOngoingFind function (n_cst_rtefind) 1512
of_SetRequestor function (n_cst_rtefind) 1512
of_SetRequestor function (n_cst_rtefind) 1513
n_cst_security 1513
n_cst_security 1515
n_cst_security 1515
of_InitSecurity function (n_cst_security) 1515
of_InitSecurity function (n_cst_security) 1516
of_SetSecurity function (n_cst_security) 1516
of_SetSecurity function (n_cst_security) 1517
n_cst_selection 1517
n_cst_selection 1518
n_cst_selection 1518
n_cst_selection 1518
of_Open function (n_cst_selection) 1519
Syntax 1 To display retrieved rows for a DataWindow 1519
Syntax 1 To display retrieved rows for a DataWindow 1520
Syntax 2 To display a passed set of rows 1520
Syntax 2 To display a passed set of rows 1521
Syntax 3 To display data stored with the DataWindow object 1521
Syntax 3 To display data stored with the DataWindow object 1522
n_cst_sql 1522
n_cst_sql 1523
n_cst_sql 1523
of_Assemble function (n_cst_sql) 1523
of_Assemble function (n_cst_sql) 1524
of_Parse function (n_cst_sql) 1524
of_Parse function (n_cst_sql) 1525
n_cst_sqlspy 1525
n_cst_sqlspy 1526
n_cst_sqlspy 1526
of_GetAlwaysOnTop function (n_cst_sqlspy) 1527
of_GetAlwaysOnTop function (n_cst_sqlspy) 1527
of_OpenSQLSpy function (n_cst_sqlspy) 1527
of_OpenSQLSpy function (n_cst_sqlspy) 1528
of_SetAlwaysOnTop function (n_cst_sqlspy) 1528
of_SetAlwaysOnTop function (n_cst_sqlspy) 1529
of_SetBatchMode function (n_cst_sqlspy) 1529
of_SetBatchMode function (n_cst_sqlspy) 1529
of_SetLogFile function (n_cst_sqlspy) 1530
of_SetLogFile function (n_cst_sqlspy) 1530
of_SQLSyntax function (n_cst_sqlspy) 1530
of_SQLSyntax function (n_cst_sqlspy) 1531
n_cst_stack 1531
n_cst_stack 1533
n_cst_stack 1533

of_Pop function (n_cst_stack) 1533
of_Pop function (n_cst_stack) 1534
of_Push function (n_cst_stack) 1534
of_Push function (n_cst_stack) 1534
n_cst_string 1535
n_cst_string 1536
n_cst_string 1536
of_ArrayToString function (n_cst_string) 1537
of_ArrayToString function (n_cst_string) 1538
of_CountOccurrences function (n_cst_string) 1538
of_CountOccurrences function (n_cst_string) 1538
of_GetKeyValue function (n_cst_string) 1539
of_GetKeyValue function (n_cst_string) 1539
of_GetToken function (n_cst_string) 1539
of_GetToken function (n_cst_string) 1540
of_GlobalReplace function (n_cst_string) 1540
of_GlobalReplace function (n_cst_string) 1541
of_IsAlpha function (n_cst_string) 1541
of_IsAlpha function (n_cst_string) 1542
of_IsAlphaNum function (n_cst_string) 1542
of_IsAlphaNum function (n_cst_string) 1542
of_IsArithmeticOperator function (n_cst_string) 1543
of_IsArithmeticOperator function (n_cst_string) 1543
of_IsComparisonOperator function (n_cst_string) 1544
of_IsComparisonOperator function (n_cst_string) 1544
of_IsEmpty function (n_cst_string) 1544
of_IsEmpty function (n_cst_string) 1545
of_IsFormat function (n_cst_string) 1545
of_IsFormat function (n_cst_string) 1545
of_IsLower function (n_cst_string) 1546
of_IsLower function (n_cst_string) 1546
of_IsPrintable function (n_cst_string) 1547
of_IsPrintable function (n_cst_string) 1547
of_IsPunctuation function (n_cst_string) 1547
of_IsPunctuation function (n_cst_string) 1548
of_IsSpace function (n_cst_string) 1548
of_IsSpace function (n_cst_string) 1549
of_IsUpper function (n_cst_string) 1549
of_IsUpper function (n_cst_string) 1549
of_IsWhiteSpace function (n_cst_string) 1550
of_IsWhiteSpace function (n_cst_string) 1550
of_LastPos function (n_cst_string) 1550
of_LastPos function (n_cst_string) 1551
of_LeftTrim function (n_cst_string) 1551
of_LeftTrim function (n_cst_string) 1552
of_PadLeft function (n_cst_string) 1552
of_PadLeft function (n_cst_string) 1553
of_PadRight function (n_cst_string) 1553
of_PadRight function (n_cst_string) 1553
of_ParseToArray function (n_cst_string) 1554

of_ParseToArray function (n_cst_string) 1554
of_Quote function (n_cst_string) 1554
of_Quote function (n_cst_string) 1555
of_RemoveNonPrint function (n_cst_string) 1555
of_RemoveNonPrint function (n_cst_string) 1556
of_RemoveWhiteSpace function (n_cst_string) 1556
of_RemoveWhiteSpace function (n_cst_string) 1556
of_RightTrim function (n_cst_string) 1557
of_RightTrim function (n_cst_string) 1557
of_SetKeyValue function (n_cst_string) 1558
of_SetKeyValue function (n_cst_string) 1558
of_Trim function (n_cst_string) 1558
of_Trim function (n_cst_string) 1559
of_WordCap function (n_cst_string) 1559
of_WordCap function (n_cst_string) 1560
n_cst_tmgmultiple 1560
n_cst_tmgmultiple 1562
n_cst_tmgmultiple 1562
n_cst_tmgmultiple 1562
Constructor event (n_cst_tmgmultiple) 1563
Destructor event (n_cst_tmgmultiple) 1563
pfc_Timer event (n_cst_tmgmultiple) 1563
n_cst_tmgmultiple 1563
of_GCommonDenominator function (n_cst_tmgmultiple) 1564
of_GCommonDenominator function (n_cst_tmgmultiple) 1565
of_GetCount function (n_cst_tmgmultiple) 1565
of_GetCount function (n_cst_tmgmultiple) 1565
of_GetInterval function (n_cst_tmgmultiple) 1566
of_GetInterval function (n_cst_tmgmultiple) 1566
of_GetRegistered function (n_cst_tmgmultiple) 1566
of_GetRegistered function (n_cst_tmgmultiple) 1567
of_IsAutoDisable function (n_cst_tmgmultiple) 1567
of_IsAutoDisable function (n_cst_tmgmultiple) 1568
of_IsDisabled function (n_cst_tmgmultiple) 1568
of_IsDisabled function (n_cst_tmgmultiple) 1568
of_IsRegistered function (n_cst_tmgmultiple) 1569
of_IsRegistered function (n_cst_tmgmultiple) 1569
of_RecalcInterval function (n_cst_tmgmultiple) 1569
of_RecalcInterval function (n_cst_tmgmultiple) 1570
of_Register function (n_cst_tmgmultiple) 1570
of_Register function (n_cst_tmgmultiple) 1571
of_SetAutoDisable function (n_cst_tmgmultiple) 1571
of_SetAutoDisable function (n_cst_tmgmultiple) 1571
of_SetDisabled function (n_cst_tmgmultiple) 1572
of_SetDisabled function (n_cst_tmgmultiple) 1572
of_SetRequestor function (n_cst_tmgmultiple) 1572
of_SetRequestor function (n_cst_tmgmultiple) 1573
of_UnRegister function (n_cst_tmgmultiple) 1573
of_UnRegister function (n_cst_tmgmultiple) 1574
n_cst_tmgsingle 1574

n_cst_tmgsingle 1575
n_cst_tmgsingle 1575
n_cst_tmgsingle 1576
pfc_Timer event (n_cst_tmgsingle) 1576
n_cst_tmgsingle 1576
of_GetCount function (n_cst_tmgsingle) 1577
of_GetCount function (n_cst_tmgsingle) 1577
of_GetInterval function (n_cst_tmgsingle) 1577
of_GetInterval function (n_cst_tmgsingle) 1578
of_GetRegistered function (n_cst_tmgsingle) 1578
of_GetRegistered function (n_cst_tmgsingle) 1579
of_IsAutoDisable function (n_cst_tmgsingle) 1579
of_IsAutoDisable function (n_cst_tmgsingle) 1579
of_IsDisabled function (n_cst_tmgsingle) 1580
of_IsDisabled function (n_cst_tmgsingle) 1580
of_IsRegistered function (n_cst_tmgsingle) 1580
of_IsRegistered function (n_cst_tmgsingle) 1581
of_Register function (n_cst_tmgsingle) 1581
of_Register function (n_cst_tmgsingle) 1582
of_SetAutoDisable function (n_cst_tmgsingle) 1582
of_SetAutoDisable function (n_cst_tmgsingle) 1582
of_SetDisabled function (n_cst_tmgsingle) 1583
of_SetDisabled function (n_cst_tmgsingle) 1583
of_SetRequestor function (n_cst_tmgsingle) 1583
of_SetRequestor function (n_cst_tmgsingle) 1584
of_UnRegister function (n_cst_tmgsingle) 1584
of_UnRegister function (n_cst_tmgsingle) 1584
n_cst_tree 1585
n_cst_tree 1587
n_cst_tree 1587
n_cst_tree 1587
of_Add function (n_cst_tree) 1588
of_Add function (n_cst_tree) 1588
of_AddNode function (n_cst_tree) 1589
of_AddNode function (n_cst_tree) 1589
of_Balance function (n_cst_tree) 1590
of_Balance function (n_cst_tree) 1590
of_BalanceLeft function (n_cst_tree) 1590
of_BalanceLeft function (n_cst_tree) 1591
of_BalanceRight function (n_cst_tree) 1591
of_BalanceRight function (n_cst_tree) 1592
of_Count function (n_cst_tree) 1592
of_Count function (n_cst_tree) 1592
of_Create function (n_cst_tree) 1593
of_Create function (n_cst_tree) 1593
of_DelNode function (n_cst_tree) 1593
of_DelNode function (n_cst_tree) 1594
of_Destroy function (n_cst_tree) 1594
of_Destroy function (n_cst_tree) 1595
of_Find function (n_cst_tree) 1595

of_Find function (n_cst_tree) 1596
of_Get function (n_cst_tree) 1596
of_Get function (n_cst_tree) 1596
of_GetRoot function (n_cst_tree) 1597
of_GetRoot function (n_cst_tree) 1597
of_Remove function (n_cst_tree) 1598
of_Remove function (n_cst_tree) 1598
of_Search function (n_cst_tree) 1598
of_Search function (n_cst_tree) 1599
of_SetCompare function (n_cst_tree) 1599
of_SetCompare function (n_cst_tree) 1600
of_Traverse function (n_cst_tree) 1600
of_Traverse function (n_cst_tree) 1600
n_cst_treenode 1601
n_cst_treenode 1602
n_cst_treenode 1602
n_cst_treenode 1602
of_CopyTo function (n_cst_treenode) 1603
of_CopyTo function (n_cst_treenode) 1603
of_GetBalance function (n_cst_treenode) 1604
of_GetBalance function (n_cst_treenode) 1604
of_SetBalance function (n_cst_treenode) 1604
of_SetBalance function (n_cst_treenode) 1605
n_cst_treenodecompare 1605
n_cst_treenodecompare 1606
n_cst_trregistration 1607
n_cst_trregistration 1608
n_cst_trregistration 1608
n_cst_trregistration 1609
Destructor event (n_cst_trregistration) 1609
n_cst_trregistration 1609
of_Destroy function (n_cst_trregistration) 1610
of_Destroy function (n_cst_trregistration) 1610
of_GetByName function (n_cst_trregistration) 1610
of_GetByName function (n_cst_trregistration) 1611
of_GetCount function (n_cst_trregistration) 1611
of_GetCount function (n_cst_trregistration) 1612
of_GetRegistered function (n_cst_trregistration) 1612
of_GetRegistered function (n_cst_trregistration) 1613
of_IsAllowSqlcaDestroy function (n_cst_trregistration) 1613
of_IsAllowSqlcaDestroy function (n_cst_trregistration) 1613
of_IsDestructorDestroy function (n_cst_trregistration) 1614
of_IsDestructorDestroy function (n_cst_trregistration) 1614
of_IsRegistered function (n_cst_trregistration) 1614
of_IsRegistered function (n_cst_trregistration) 1615
of_Register function (n_cst_trregistration) 1615
of_Register function (n_cst_trregistration) 1616
of_SetAllowSqlcaDestroy function (n_cst_trregistration) 1616
of_SetAllowSqlcaDestroy function (n_cst_trregistration) 1616
of_SetDestructorDestroy function (n_cst_trregistration) 1617

of_SetDestructorDestroy function (n_cst_trregistration) 1617
of_UnRegister function (n_cst_trregistration) 1617
of_UnRegister function (n_cst_trregistration) 1618
n_cst_tvsrv 1618
n_cst_tvsrv 1619
n_cst_tvsrv 1619
n_cst_tvsrv 1619
n_cst_tvsrv 1620
of_FindFirstItemLevel function (n_cst_tvsrv) 1620
of_FindFirstItemLevel function (n_cst_tvsrv) 1621
of_FindItem function (n_cst_tvsrv) 1621
of_FindItem function (n_cst_tvsrv) 1622
of_GetDataAny function (n_cst_tvsrv) 1622
of_GetDataAny function (n_cst_tvsrv) 1623
of_GetDataNumeric function (n_cst_tvsrv) 1623
of_GetDataNumeric function (n_cst_tvsrv) 1623
of_GetDataString function (n_cst_tvsrv) 1624
of_GetDataString function (n_cst_tvsrv) 1624
of_GetDisplayItem function (n_cst_tvsrv) 1624
of_GetDisplayItem function (n_cst_tvsrv) 1625
of_GetDisplayUnits function (n_cst_tvsrv) 1625
of_GetDisplayUnits function (n_cst_tvsrv) 1626
of_SearchChild function (n_cst_tvsrv) 1626
of_SearchChild function (n_cst_tvsrv) 1627
of_SetDisplayItem function (n_cst_tvsrv) 1627
of_SetDisplayItem function (n_cst_tvsrv) 1627
of_SetDisplayUnits function (n_cst_tvsrv) 1628
of_SetDisplayUnits function (n_cst_tvsrv) 1628
of_SetRequestor function (n_cst_tvsrv) 1628
of_SetRequestor function (n_cst_tvsrv) 1629
n_cst_tvsrv_levelsource 1629
n_cst_tvsrv_levelsource 1631
n_cst_tvsrv_levelsource 1631
n_cst_tvsrv_levelsource 1632
Constructor event (n_cst_tvsrv_levelsource) 1633
Destructor event (n_cst_tvsrv_levelsource) 1633
pfc_DeleteItem event (n_cst_tvsrv_levelsource) 1633
pfc_DeleteItem event (n_cst_tvsrv_levelsource) 1634
pfc_EndLabelEdit event (n_cst_tvsrv_levelsource) 1634
pfc_EndLabelEdit event (n_cst_tvsrv_levelsource) 1635
pfc_InsertItem event (n_cst_tvsrv_levelsource) 1635
pfc_InsertItem event (n_cst_tvsrv_levelsource) 1636
pfc_ItemExpanding event (n_cst_tvsrv_levelsource) 1636
pfc_ItemExpanding event (n_cst_tvsrv_levelsource) 1637
pfc_RefreshItem event (n_cst_tvsrv_levelsource) 1637
pfc_RefreshItem event (n_cst_tvsrv_levelsource) 1637
pfc_RefreshLevel event (n_cst_tvsrv_levelsource) 1638
pfc_RefreshLevel event (n_cst_tvsrv_levelsource) 1638
pfc_SetItemAttributes event (n_cst_tvsrv_levelsource) 1638
pfc_Undo event (n_cst_tvsrv_levelsource) 1639

pfc_Undo event (n_cst_tvsrv_levelsource) 1639
pfc_UndoDelete event (n_cst_tvsrv_levelsource) 1639
pfc_UndoDelete event (n_cst_tvsrv_levelsource) 1640
pfc_UndoEdit event (n_cst_tvsrv_levelsource) 1640
pfc_UndoEdit event (n_cst_tvsrv_levelsource) 1641
pfc_UndoInsert event (n_cst_tvsrv_levelsource) 1641
pfc_UndoInsert event (n_cst_tvsrv_levelsource) 1641
n_cst_tvsrv_levelsource 1642
of_CanUndo function (n_cst_tvsrv_levelsource) 1644
of_CanUndo function (n_cst_tvsrv_levelsource) 1644
of_ClearUndo function (n_cst_tvsrv_levelsource) 1644
of_ClearUndo function (n_cst_tvsrv_levelsource) 1645
of_ConfirmDelete function (n_cst_tvsrv_levelsource) 1645
of_ConfirmDelete function (n_cst_tvsrv_levelsource) 1646
of_ConfirmOnDelete function (n_cst_tvsrv_levelsource) 1646
of_ConfirmOnDelete function (n_cst_tvsrv_levelsource) 1646
of_ConvertToRow function (n_cst_tvsrv_levelsource) 1647
of_ConvertToRow function (n_cst_tvsrv_levelsource) 1647
of_DecodeKey function (n_cst_tvsrv_levelsource) 1648
of_DecodeKey function (n_cst_tvsrv_levelsource) 1648
of_DeleteItem function (n_cst_tvsrv_levelsource) 1648
of_DeleteItem function (n_cst_tvsrv_levelsource) 1649
of_DiscardChildren function (n_cst_tvsrv_levelsource) 1649
of_DiscardChildren function (n_cst_tvsrv_levelsource) 1650
of_EncodeKey function (n_cst_tvsrv_levelsource) 1650
of_EncodeKey function (n_cst_tvsrv_levelsource) 1650
of_GetArgs function (n_cst_tvsrv_levelsource) 1651
of_GetArgs function (n_cst_tvsrv_levelsource) 1651
of_GetCustomUpdate function (n_cst_tvsrv_levelsource) 1651
of_GetCustomUpdate function (n_cst_tvsrv_levelsource) 1652
of_GetDataObject function (n_cst_tvsrv_levelsource) 1652
of_GetDataObject function (n_cst_tvsrv_levelsource) 1653
of_GetDataRow function (n_cst_tvsrv_levelsource) 1653
of_GetDataRow function (n_cst_tvsrv_levelsource) 1653
of_GetDataSource function (n_cst_tvsrv_levelsource) 1654
of_GetDataSource function (n_cst_tvsrv_levelsource) 1654
of_GetDeleteStyle function (n_cst_tvsrv_levelsource) 1655
of_GetDeleteStyle function (n_cst_tvsrv_levelsource) 1655
of_GetHandle function (n_cst_tvsrv_levelsource) 1655
of_GetHandle function (n_cst_tvsrv_levelsource) 1656
of_GetLabelColumn function (n_cst_tvsrv_levelsource) 1656
of_GetLabelColumn function (n_cst_tvsrv_levelsource) 1657
of_GetLevel function (n_cst_tvsrv_levelsource) 1657
of_GetLevel function (n_cst_tvsrv_levelsource) 1657
of_GetLevelAttributes function (n_cst_tvsrv_levelsource) 1658
of_GetLevelAttributes function (n_cst_tvsrv_levelsource) 1658
of_GetLevelCount function (n_cst_tvsrv_levelsource) 1659
of_GetLevelCount function (n_cst_tvsrv_levelsource) 1659
of_GetMethod function (n_cst_tvsrv_levelsource) 1659
of_GetMethod function (n_cst_tvsrv_levelsource) 1660

of_GetObjects function (n_cst_tvsrv_levelsource) 1660
of_GetObjects function (n_cst_tvsrv_levelsource) 1661
of_GetOverlayPictureColumn function (n_cst_tvsrv_levelsource) 1661
of_GetOverlayPictureColumn function (n_cst_tvsrv_levelsource) 1662
of_GetPictureColumn function (n_cst_tvsrv_levelsource) 1662
of_GetPictureColumn function (n_cst_tvsrv_levelsource) 1662
of_GetRetrieveArgs function (n_cst_tvsrv_levelsource) 1663
of_GetRetrieveArgs function (n_cst_tvsrv_levelsource) 1663
of_GetSelectedPictureColumn function (n_cst_tvsrv_levelsource) 1663
of_GetSelectedPictureColumn function (n_cst_tvsrv_levelsource) 1664
of_GetStatePictureColumn function (n_cst_tvsrv_levelsource) 1664
of_GetStatePictureColumn function (n_cst_tvsrv_levelsource) 1665
of_GetTransObject function (n_cst_tvsrv_levelsource) 1665
of_GetTransObject function (n_cst_tvsrv_levelsource) 1665
of_GetUpdateStyle function (n_cst_tvsrv_levelsource) 1666
of_GetUpdateStyle function (n_cst_tvsrv_levelsource) 1666
of_InsertItem function (n_cst_tvsrv_levelsource) 1667
of_InsertItem function (n_cst_tvsrv_levelsource) 1667
of_IsConfirmOnDelete function (n_cst_tvsrv_levelsource) 1668
of_IsConfirmOnDelete function (n_cst_tvsrv_levelsource) 1668
of_IsRecursiveLevel function (n_cst_tvsrv_levelsource) 1668
of_IsRecursiveLevel function (n_cst_tvsrv_levelsource) 1669
of_ParseArgs function (n_cst_tvsrv_levelsource) 1669
of_ParseArgs function (n_cst_tvsrv_levelsource) 1670
of_ParseCols function (n_cst_tvsrv_levelsource) 1670
of_ParseCols function (n_cst_tvsrv_levelsource) 1671
of_Register function (n_cst_tvsrv_levelsource) 1671
Syntax 1 To display data retrieved via a DataWindow object 1671
Syntax 1 To display data retrieved via a DataWindow object 1672
Syntax 2 To display data retrieved via a SQL statement 1673
Syntax 2 To display data retrieved via a SQL statement 1674
Syntax 3 To display data from a DataWindow control 1674
Syntax 3 To display data from a DataWindow control 1675
Syntax 4 To display data from a DataStore 1675
Syntax 4 To display data from a DataStore 1676
Syntax 5 To display passed data 1676
Syntax 5 To display passed data 1677
Syntax 6 To display data from a file 1678
Syntax 6 To display data from a file 1678
of_RegisterDataSource function (n_cst_tvsrv_levelsource) 1679
of_RegisterDataSource function (n_cst_tvsrv_levelsource) 1680
of_RemoveChildren function (n_cst_tvsrv_levelsource) 1680
of_RemoveChildren function (n_cst_tvsrv_levelsource) 1680
of_Reset function (n_cst_tvsrv_levelsource) 1681
of_Reset function (n_cst_tvsrv_levelsource) 1681
of_ResetTree function (n_cst_tvsrv_levelsource) 1681
of_ResetTree function (n_cst_tvsrv_levelsource) 1682
of_ResetUpdate function (n_cst_tvsrv_levelsource) 1682
of_ResetUpdate function (n_cst_tvsrv_levelsource) 1683
of_Retrieve function (n_cst_tvsrv_levelsource) 1683

of_Retrieve function (n_cst_tvsrv_levelsource) 1683
of_SetCache function (n_cst_tvsrv_levelsource) 1684
of_SetCache function (n_cst_tvsrv_levelsource) 1684
of_SetConfirmOnDelete function (n_cst_tvsrv_levelsource) 1684
of_SetConfirmOnDelete function (n_cst_tvsrv_levelsource) 1685
of_SetCustomUpdate function (n_cst_tvsrv_levelsource) 1685
of_SetCustomUpdate function (n_cst_tvsrv_levelsource) 1686
of_SetDeleteStyle function (n_cst_tvsrv_levelsource) 1686
of_SetDeleteStyle function (n_cst_tvsrv_levelsource) 1686
of_SetItemAttributes function (n_cst_tvsrv_levelsource) 1687
of_SetItemAttributes function (n_cst_tvsrv_levelsource) 1687
of_SetOverlayPictureColumn function (n_cst_tvsrv_levelsource) 1687
of_SetOverlayPictureColumn function (n_cst_tvsrv_levelsource) 1688
of_SetPictureColumn function (n_cst_tvsrv_levelsource) 1688
of_SetPictureColumn function (n_cst_tvsrv_levelsource) 1689
of_SetRecursive function (n_cst_tvsrv_levelsource) 1689
of_SetRecursive function (n_cst_tvsrv_levelsource) 1690
of_SetSelectedPictureColumn function (n_cst_tvsrv_levelsource) 1690
of_SetSelectedPictureColumn function (n_cst_tvsrv_levelsource) 1690
of_SetStatePictureColumn function (n_cst_tvsrv_levelsource) 1691
of_SetStatePictureColumn function (n_cst_tvsrv_levelsource) 1691
of_SetUndo function (n_cst_tvsrv_levelsource) 1692
of_SetUndo function (n_cst_tvsrv_levelsource) 1692
of_SetUpdateStyle function (n_cst_tvsrv_levelsource) 1692
of_SetUpdateStyle function (n_cst_tvsrv_levelsource) 1693
of_UnRegister function (n_cst_tvsrv_levelsource) 1693
of_UnRegister function (n_cst_tvsrv_levelsource) 1694
of_Update function (n_cst_tvsrv_levelsource) 1694
Syntax 1 To update a specified TreeView level 1694
Syntax 1 To update a specified TreeView level 1695
Syntax 2 To update all TreeView levels 1695
Syntax 2 To update all TreeView levels 1695
of_UpdateCustom function (n_cst_tvsrv_levelsource) 1696
of_UpdateCustom function (n_cst_tvsrv_levelsource) 1696
n_cst_tvsrv_print 1696
n_cst_tvsrv_print 1697
n_cst_tvsrv_print 1698
of_BuildTree function (n_cst_tvsrv_print) 1698
of_BuildTree function (n_cst_tvsrv_print) 1698
of_PrintTree function (n_cst_tvsrv_print) 1699
Syntax 1 Print a TreeView using the same pictures for each level 1699
Syntax 1 Print a TreeView using the same pictures for each level 1700
Syntax 2 Print a TreeView specifying pictures for each level 1700
Syntax 2 Print a TreeView specifying pictures for each level 1700
n_cst_winsrv 1701
n_cst_winsrv 1702
n_cst_winsrv 1702
n_cst_winsrv 1702
n_cst_winsrv 1702
of_Center function (n_cst_winsrv) 1702

of_Center function (n_cst_winsrv) 1703
of_SetRequestor function (n_cst_winsrv) 1703
of_SetRequestor function (n_cst_winsrv) 1704
n_cst_winsrv_preference 1704
n_cst_winsrv_preference 1706
n_cst_winsrv_preference 1706
n_cst_winsrv_preference 1707
of_GetMenuItems function (n_cst_winsrv_preference) 1707
of_GetMenuItems function (n_cst_winsrv_preference) 1708
of_GetToolbarItemOrder function (n_cst_winsrv_preference) 1708
of_GetToolbarItemOrder function (n_cst_winsrv_preference) 1709
of_GetToolbarItemSpace function (n_cst_winsrv_preference) 1709
of_GetToolbarItemSpace function (n_cst_winsrv_preference) 1709
of_GetToolbarItemVisible function (n_cst_winsrv_preference) 1710
of_GetToolbarItemVisible function (n_cst_winsrv_preference) 1710
of_GetToolbars function (n_cst_winsrv_preference) 1710
of_GetToolbars function (n_cst_winsrv_preference) 1711
of_GetToolbarTitles function (n_cst_winsrv_preference) 1711
of_GetToolbarTitles function (n_cst_winsrv_preference) 1711
of_GetWindow function (n_cst_winsrv_preference) 1712
of_GetWindow function (n_cst_winsrv_preference) 1712
of_Restore function (n_cst_winsrv_preference) 1712
Syntax 1 To restore settings from the registry 1713
Syntax 1 To restore settings from the registry 1713
Syntax 2 To restore settings from an INI file 1714
Syntax 2 To restore settings from an INI file 1714
of_RestoreMenu function (n_cst_winsrv_preference) 1714
of_RestoreMenu function (n_cst_winsrv_preference) 1715
of_RestorePositiveNumber function (n_cst_winsrv_preference) 1715
of_RestorePositiveNumber function (n_cst_winsrv_preference) 1716
of_Save function (n_cst_winsrv_preference) 1716
Syntax 1 To save settings in the registry 1716
Syntax 1 To save settings in the registry 1717
Syntax 2 To save settings in an INI file 1717
Syntax 2 To save settings in an INI file 1718
of_SaveMenu function (n_cst_winsrv_preference) 1718
of_SaveMenu function (n_cst_winsrv_preference) 1719
of_SetMenuItems function (n_cst_winsrv_preference) 1719
of_SetMenuItems function (n_cst_winsrv_preference) 1719
of_SetPosSize function (n_cst_winsrv_preference) 1720
of_SetPosSize function (n_cst_winsrv_preference) 1720
of_SetToolbarItemOrder function (n_cst_winsrv_preference) 1720
of_SetToolbarItemOrder function (n_cst_winsrv_preference) 1721
of_SetToolbarItemSpace function (n_cst_winsrv_preference) 1721
of_SetToolbarItemSpace function (n_cst_winsrv_preference) 1722
of_SetToolbarItemVisible function (n_cst_winsrv_preference) 1722
of_SetToolbarItemVisible function (n_cst_winsrv_preference) 1722
of_SetToolbars function (n_cst_winsrv_preference) 1723
of_SetToolbars function (n_cst_winsrv_preference) 1723
of_SetToolbarTitles function (n_cst_winsrv_preference) 1723

of_SetToolbarTitles function (n_cst_winsrv_preference) 1724
of_SetWindow function (n_cst_winsrv_preference) 1724
of_SetWindow function (n_cst_winsrv_preference) 1725
n_cst_winsrv_sheetmanager 1725
n_cst_winsrv_sheetmanager 1726
n_cst_winsrv_sheetmanager 1726
n_cst_winsrv_sheetmanager 1727
Constructor event (n_cst_winsrv_sheetmanager) 1727
pfc_Cascade event (n_cst_winsrv_sheetmanager) 1727
pfc_Layer event (n_cst_winsrv_sheetmanager) 1728
pfc_MinimizeAll event (n_cst_winsrv_sheetmanager) 1728
pfc_TileHorizontal event (n_cst_winsrv_sheetmanager) 1728
pfc_TileVertical event (n_cst_winsrv_sheetmanager) 1728
pfc_UndoArrange event (n_cst_winsrv_sheetmanager) 1729
n_cst_winsrv_sheetmanager 1729
of_GetCurrentState function (n_cst_winsrv_sheetmanager) 1729
of_GetCurrentState function (n_cst_winsrv_sheetmanager) 1730
of_GetSheetCount function (n_cst_winsrv_sheetmanager) 1730
of_GetSheetCount function (n_cst_winsrv_sheetmanager) 1730
of_GetSheets function (n_cst_winsrv_sheetmanager) 1731
of_GetSheets function (n_cst_winsrv_sheetmanager) 1731
of_GetSheetsByClass function (n_cst_winsrv_sheetmanager) 1731
of_GetSheetsByClass function (n_cst_winsrv_sheetmanager) 1732
of_GetSheetsByTitle function (n_cst_winsrv_sheetmanager) 1732
of_GetSheetsByTitle function (n_cst_winsrv_sheetmanager) 1733
of_SetCurrentState function (n_cst_winsrv_sheetmanager) 1733
of_SetCurrentState function (n_cst_winsrv_sheetmanager) 1734
n_cst_winsrv_statusbar 1734
n_cst_winsrv_statusbar 1736
n_cst_winsrv_statusbar 1736
n_cst_winsrv_statusbar 1738
Constructor event (n_cst_winsrv_statusbar) 1739
pfc_Hide event (n_cst_winsrv_statusbar) 1739
pfc_Move event (n_cst_winsrv_statusbar) 1739
pfc_Resize event (n_cst_winsrv_statusbar) 1740
pfc_Show event (n_cst_winsrv_statusbar) 1740
pfc_StatusBarClicked event (n_cst_winsrv_statusbar) 1740
pfc_StatusBarClicked event (n_cst_winsrv_statusbar) 1741
pfc_StatusBarDoubleClick event (n_cst_winsrv_statusbar) 1741
pfc_StatusBarDoubleClick event (n_cst_winsrv_statusbar) 1742
pfc_StatusBarRButtonUp event (n_cst_winsrv_statusbar) 1742
pfc_StatusBarRButtonUp event (n_cst_winsrv_statusbar) 1743
n_cst_winsrv_statusbar 1743
of_BarIncrement function (n_cst_winsrv_statusbar) 1745
of_BarIncrement function (n_cst_winsrv_statusbar) 1746
of_BarReset function (n_cst_winsrv_statusbar) 1746
of_BarReset function (n_cst_winsrv_statusbar) 1746
of_BarUpdateVisuals function (n_cst_winsrv_statusbar) 1747
of_BarUpdateVisuals function (n_cst_winsrv_statusbar) 1747
of_CalculateMicrohelpHeight function (n_cst_winsrv_statusbar) 1747

of_CalculateMicrohelpHeight function (n_cst_winsrv_statusbar) 1748
of_CreateDWObject function (n_cst_winsrv_statusbar) 1748
of_CreateDWObject function (n_cst_winsrv_statusbar) 1749
of_GetBar function (n_cst_winsrv_statusbar) 1749
of_GetBar function (n_cst_winsrv_statusbar) 1749
of_GetBarDisplayStyle function (n_cst_winsrv_statusbar) 1750
of_GetBarDisplayStyle function (n_cst_winsrv_statusbar) 1750
of_GetBarFillColor function (n_cst_winsrv_statusbar) 1751
of_GetBarFillColor function (n_cst_winsrv_statusbar) 1751
of_GetBarFillStyle function (n_cst_winsrv_statusbar) 1751
of_GetBarFillStyle function (n_cst_winsrv_statusbar) 1752
of_GetBarMaximum function (n_cst_winsrv_statusbar) 1752
of_GetBarMaximum function (n_cst_winsrv_statusbar) 1753
of_GetBarMinimum function (n_cst_winsrv_statusbar) 1753
of_GetBarMinimum function (n_cst_winsrv_statusbar) 1753
of_GetBarPctComplete function (n_cst_winsrv_statusbar) 1754
of_GetBarPctComplete function (n_cst_winsrv_statusbar) 1754
of_GetBarPosition function (n_cst_winsrv_statusbar) 1754
of_GetBarPosition function (n_cst_winsrv_statusbar) 1755
of_GetBarStep function (n_cst_winsrv_statusbar) 1755
of_GetBarStep function (n_cst_winsrv_statusbar) 1756
of_GetBarTextColor function (n_cst_winsrv_statusbar) 1756
of_GetBarTextColor function (n_cst_winsrv_statusbar) 1756
of_GetBarWidth function (n_cst_winsrv_statusbar) 1757
of_GetBarWidth function (n_cst_winsrv_statusbar) 1757
of_GetBorderType function (n_cst_winsrv_statusbar) 1757
of_GetBorderType function (n_cst_winsrv_statusbar) 1758
of_GetGapWidth function (n_cst_winsrv_statusbar) 1758
of_GetGapWidth function (n_cst_winsrv_statusbar) 1759
of_GetGDI function (n_cst_winsrv_statusbar) 1759
of_GetGDI function (n_cst_winsrv_statusbar) 1759
of_GetGDIThreshold function (n_cst_winsrv_statusbar) 1760
of_GetGDIThreshold function (n_cst_winsrv_statusbar) 1760
of_GetMem function (n_cst_winsrv_statusbar) 1761
of_GetMem function (n_cst_winsrv_statusbar) 1761
of_GetMemThreshold function (n_cst_winsrv_statusbar) 1761
of_GetMemThreshold function (n_cst_winsrv_statusbar) 1762
of_GetRefreshRate function (n_cst_winsrv_statusbar) 1762
of_GetRefreshRate function (n_cst_winsrv_statusbar) 1762
of_GetTimer function (n_cst_winsrv_statusbar) 1763
of_GetTimer function (n_cst_winsrv_statusbar) 1763
of_GetTimerInterval function (n_cst_winsrv_statusbar) 1764
of_GetTimerInterval function (n_cst_winsrv_statusbar) 1764
of_GetUser function (n_cst_winsrv_statusbar) 1764
of_GetUser function (n_cst_winsrv_statusbar) 1765
of_GetUserThreshold function (n_cst_winsrv_statusbar) 1765
of_GetUserThreshold function (n_cst_winsrv_statusbar) 1766
of_IsBarAutoReset function (n_cst_winsrv_statusbar) 1766
of_IsBarAutoReset function (n_cst_winsrv_statusbar) 1766
of_IsPredefined function (n_cst_winsrv_statusbar) 1767

of_IsPredefined function (n_cst_winsrv_statusbar) 1767
of_Modify function (n_cst_winsrv_statusbar) 1767
of_Modify function (n_cst_winsrv_statusbar) 1768
of_Open function (n_cst_winsrv_statusbar) 1768
of_Open function (n_cst_winsrv_statusbar) 1769
of_Register function (n_cst_winsrv_statusbar) 1769
of_Register function (n_cst_winsrv_statusbar) 1770
of_RegisterPredefined function (n_cst_winsrv_statusbar) 1770
of_RegisterPredefined function (n_cst_winsrv_statusbar) 1771
of_RestoreFocusPoint function (n_cst_winsrv_statusbar) 1771
of_RestoreFocusPoint function (n_cst_winsrv_statusbar) 1771
of_SetBar function (n_cst_winsrv_statusbar) 1772
of_SetBar function (n_cst_winsrv_statusbar) 1772
of_SetBarAutoReset function (n_cst_winsrv_statusbar) 1773
of_SetBarAutoReset function (n_cst_winsrv_statusbar) 1773
of_SetBarDisplayStyle function (n_cst_winsrv_statusbar) 1773
of_SetBarDisplayStyle function (n_cst_winsrv_statusbar) 1774
of_SetBarFillColor function (n_cst_winsrv_statusbar) 1774
of_SetBarFillColor function (n_cst_winsrv_statusbar) 1775
of_SetBarFillStyle function (n_cst_winsrv_statusbar) 1775
of_SetBarFillStyle function (n_cst_winsrv_statusbar) 1775
of_SetBarMaximum function (n_cst_winsrv_statusbar) 1776
of_SetBarMaximum function (n_cst_winsrv_statusbar) 1776
of_SetBarMinimum function (n_cst_winsrv_statusbar) 1776
of_SetBarMinimum function (n_cst_winsrv_statusbar) 1777
of_SetBarOffsetX function (n_cst_winsrv_statusbar) 1777
of_SetBarOffsetX function (n_cst_winsrv_statusbar) 1778
of_SetBarOffsetY function (n_cst_winsrv_statusbar) 1778
of_SetBarOffsetY function (n_cst_winsrv_statusbar) 1778
of_SetBarPosition function (n_cst_winsrv_statusbar) 1779
of_SetBarPosition function (n_cst_winsrv_statusbar) 1779
of_SetBarStep function (n_cst_winsrv_statusbar) 1779
of_SetBarStep function (n_cst_winsrv_statusbar) 1780
of_SetBarTextColor function (n_cst_winsrv_statusbar) 1780
of_SetBarTextColor function (n_cst_winsrv_statusbar) 1781
of_SetBarWidth function (n_cst_winsrv_statusbar) 1781
of_SetBarWidth function (n_cst_winsrv_statusbar) 1781
of_SetBorderType function (n_cst_winsrv_statusbar) 1782
of_SetBorderType function (n_cst_winsrv_statusbar) 1782
of_SetGapWidth function (n_cst_winsrv_statusbar) 1782
of_SetGapWidth function (n_cst_winsrv_statusbar) 1783
of_SetGDI function (n_cst_winsrv_statusbar) 1783
of_SetGDI function (n_cst_winsrv_statusbar) 1784
of_SetGDIThreshold function (n_cst_winsrv_statusbar) 1784
of_SetGDIThreshold function (n_cst_winsrv_statusbar) 1784
of_SetGDIWidth function (n_cst_winsrv_statusbar) 1785
of_SetGDIWidth function (n_cst_winsrv_statusbar) 1785
of_SetMem function (n_cst_winsrv_statusbar) 1785
of_SetMem function (n_cst_winsrv_statusbar) 1786
of_SetMemThreshold function (n_cst_winsrv_statusbar) 1786

of_SetMemThreshold function (n_cst_winsrv_statusbar) 1786
of_SetMemWidth function (n_cst_winsrv_statusbar) 1787
of_SetMemWidth function (n_cst_winsrv_statusbar) 1787
of_SetRefreshRate function (n_cst_winsrv_statusbar) 1787
of_SetRefreshRate function (n_cst_winsrv_statusbar) 1788
of_SetTimer function (n_cst_winsrv_statusbar) 1788
of_SetTimer function (n_cst_winsrv_statusbar) 1789
of_SetTimerFormat function (n_cst_winsrv_statusbar) 1789
of_SetTimerFormat function (n_cst_winsrv_statusbar) 1789
of_SetTimerInterval function (n_cst_winsrv_statusbar) 1790
of_SetTimerInterval function (n_cst_winsrv_statusbar) 1790
of_SetTimerWidth function (n_cst_winsrv_statusbar) 1790
of_SetTimerWidth function (n_cst_winsrv_statusbar) 1791
of_SetUser function (n_cst_winsrv_statusbar) 1791
of_SetUser function (n_cst_winsrv_statusbar) 1792
of_SetUserThreshold function (n_cst_winsrv_statusbar) 1792
of_SetUserThreshold function (n_cst_winsrv_statusbar) 1792
of_SetUserWidth function (n_cst_winsrv_statusbar) 1793
of_SetUserWidth function (n_cst_winsrv_statusbar) 1793
of_UnRegister function (n_cst_winsrv_statusbar) 1793
of_UnRegister function (n_cst_winsrv_statusbar) 1794
of_UnRegisterPredefined function (n_cst_winsrv_statusbar) 1794
of_UnRegisterPredefined function (n_cst_winsrv_statusbar) 1795
of_UpdatePredefined function (n_cst_winsrv_statusbar) 1795
of_UpdatePredefined function (n_cst_winsrv_statusbar) 1795

PFC Examples Application

The PFC Examples Application demonstrates many features of the PowerBuildert Foundation Class Library. It is a single document interface (SDI) application that showcases dozens of code examples, all utilizing PFC concrete and service class objects. The PFC Examples Application can be used to:

- Become familiar with the features of PFC
- Demonstrate PFC coding techniques and feature implementations
- Cut and paste code snippets into your own PFC applications.

The Front End Launching Utility
The PFC Examples Application Files
The PFC Examples Application Database

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

The Front End Launching Utility

PFC is a class library with built in application framework mechanisms. The PFC Examples Application was created as such to demonstrate not only the concrete and service class objects that make up the class library, but also to show how to utilize these objects in an interactive application environment.

Although it is not technically an example, the front end launching utility is probably the best example in the application. It is loaded with PFC feature implementations including the following:

- uses the tree view service
- uses the list view service
- centralizes control of the Debug Service and SQL Spy Service settings via the menu or by clicking the status bar bitmaps
- centralizes access to the Debug Log Window and SQL Spy Window via the menu or by clicking the status bar bitmaps
- uses the Most Recently Used service to keep track of the most recently opened examples
- uses the split bar object in conjunction with the window resize service to balance the GUI presentation when the window is resized.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

The PFC Examples Application Files

All files required for the PFC Examples Application are installed in the PFC Examples directory.

PowerBuilder Libraries (PBL's)

The following libraries must be in the application library list for the PFC Examples Application to run. Be sure that the libraries are ordered with the "APP…" libraries in any order on top, the "EXM…" libraries in any order after the "APP…" libraries, and the "PFC…" libraries in any order at the bottom of the list.

APPEXAMP.PBL - This contains the application object (pfcexamp)
APPEXMDW.PBL
APPEXMFE.PBL
EXMAPSRV.PBL
EXMDWSRV.PBL
EXMWNSRV.PBL
EXMMAIN.PBL
EXMUTIL.PBL
PFCAPSRV.PBL
PFCDWSRV.PBL
PFCWNSRV.PBL

PFCMAIN.PBL
PFCUTIL.PBL

Other Files

The PFC Examples directory also includes the SQLSPY.LOG file, a text file for use by the SQL Spy service to log database activity.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

PFC Examples Application Database

The database for the PFC Examples Application is the Adaptive Server Anywhere database file called the EAS demo database. It is installed in the *Shared\PowerBuilder* directory when the PowerBuilder setup program is run. All examples, including the front end launching utility, use this database to demonstrate PFC features.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

Contents

Getting Started
For a quick start
PFC documentation
Using PFC
Objects
Windows
(starts with w_child)
User Objects
(starts with n_cn)
Menus
(starts with m_dw)
Structures and structure objects
(starts with n_cst_aboutattrib)
Quick Jumps
n_cst_appmanager
n_cst_dwsrv
w_master
m_master
u_dw

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

For a quick start with PFC

- **To get started with a PFC application:**
  1. Define a library list that contains PFC PBLs:
     PFCAPSRV.PBL
     PFCDWSRV.PBL
     PFCMAIN.PBL
     PFCUTIL.PBL
     PFCWNSRV.PBL

PFEAPSRV.PBL
PFEDWSRV.PBL
PFEMAIN.PBL
PFEUTIL.PBL
PFEWNSRV.PBL

2 In the Application painter's Script view, define a global variable, gnv_app, of type n_cst_appmanager.

```
n_cst_appmanager  gnv_app
```

The variable name must be gnv_app
PFC objects, functions, and events require that you define the application manager as gnv_app, with a data type of n_cst_appmanager (or an n_cst_appmanager descendant).

3 Add PowerScript code to your application's Open event to create n_cst_appmanager and call the pfc_Open event:

```
gnv_app = CREATE n_cst_appmanager
gnv_app.Event pfc_Open(commandline)
```

4 Add PowerScript code to your application's Close event to call the pfc_Close event and destroy n_cst_appmanager:

```
gnv_app.Event pfc_Close( )
DESTROY n_cst_appmanager
```

5 Add PowerScript code to your application's System Error event to call the pfc_SystemError event:

```
gnv_app.Event pfc_SystemError( )
```

6 Close the Application painter and save the changes.

7 Open the user object n_cst_appmanager (found in PFEAPSRV.PBL).

8 Call n_cst_appmanager functions in the Constructor event to initialize instance variables for version, company, and INI file. (You can assign values to these variables in the Properties view)

9 Call n_cst_appmanager functions in the pfc_Open event to enable the application services you want.

10 Add code to the pfc_Open user event to open your application's initial window (typically the frame window), optionally including a call to the of_Splash function, which displays a splash screen.

11 Save n_cst_appmanager.

Predefined libraries

To see a predefined PFC application running, use one of these applications:

Sample application. Open the PEAT.PBL application. This provides a small sample application.

Code examples. Open the APPEXAMP.PBL application, found in pfc\Examples. This provides examples of many PFC functions and services.

PFC Tutorial

The PFC User's Guide includes a tutorial that explains the basics of coding a PFC application.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

PFC Documentation

PFC documentation includes:

PFC User's Guide Includes PFC basics, PFC tutorial and usage information for PFC services

PFC Object Reference Includes usage and syntax for PFC objects, instance variables, events, and functions

PFC online Help Includes all information in the PFC Object Reference

The PFC User's Guide and PFC Object Reference are available in the Online Books. To use the Online Books, you must have installed software on your workstation, and have access to the files containing the Online Books (typically on either the PowerBuilder Online Books CD or a network drive).

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

Using PFC

The PowerBuilder Foundation Class Library contains windows, user objects, DataWindows, and structures that you can use to help build PowerBuilder applications. It is mainly intended for use with new applications.

PFC uses a service-based architecture, maximizing PowerBuilder's object-oriented capabilities. By using PFC, you can quickly add powerful capabilities to your applications.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

PowerBuilder Foundation Class Library Object Reference

PowerBuilder®937785090001

February2003

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

This publication pertains to Sybase software and to any subsequent release until otherwise indicated in new editions or technical notes. Information in this document is subject to change without notice. The software described herein is furnished under a license agreement, and it may be used or copied only in accordance with the terms of that agreement.

To order additional documents, U.S. and Canadian customers should call Customer Fulfillment at (800) 685-8225, fax (617) 229-9845.

Customers in other countries with a U.S. license agreement may contact Customer Fulfillment via the above fax number. All other international customers should contact their Sybase subsidiary or local distributor. Upgrades are provided only at regularly scheduled software release dates. No part of this publication may be reproduced, transmitted, or translated in any form or by any means, electronic, mechanical, manual, optical, or otherwise, without the prior written permission of Sybase, Inc.

Sybase, the Sybase logo, AccelaTrade, ADA Workbench, Adaptable Windowing Environment, Adaptive Component Architecture, Adaptive Server, Adaptive Server Anywhere, Adaptive Server Enterprise, Adaptive Server Enterprise Monitor, Adaptive Server Enterprise Replication, Adaptive Server Everywhere, Adaptive Server IQ, Adaptive Warehouse, Anywhere Studio, Application Manager, AppModeler, APT Workbench, APT-Build, APT-Edit, APT-Execute, APT-FORMS, APT-Translator, APT-Library, Backup Server, BizTracker, ClearConnect, Client-Library, Client Services, Convoy/DM, Copernicus, Data Pipeline, Data Workbench, DataArchitect, Database Analyzer, DataExpress, DataServer, DataWindow, DB-Library, dbQueue, Developers Workbench, Direct Connect Anywhere, DirectConnect, Distribution Director, e-ADK, E-Anywhere, e-Biz Integrator, E-Whatever, EC Gateway, ECMAP, ECRTP, eFulfillment Accelerator, Embedded SQL, EMS, Enterprise Application Studio, Enterprise Client/Server, Enterprise Connect, Enterprise Data Studio, Enterprise Manager, Enterprise SQL Server Manager, Enterprise Work Architecture, Enterprise Work Designer, Enterprise Work Modeler, eProcurement Accelerator, EWA, Financial Fusion, Financial Fusion Server, Gateway Manager, GlobalFIX, ImpactNow, Industry Warehouse Studio, InfoMaker, Information Anywhere, Information Everywhere, InformationConnect, InternetBuilder, iScript, Jaguar CTS, jConnect for JDBC, MainframeConnect, Maintenance Express, MDI Access Server, MDI Database Gateway, media.splash, MetaWorks, MySupport, Net-Gateway, Net-Library, New Era of Networks, ObjectConnect, ObjectCycle, OmniConnect, OmniSQL Access Module, OmniSQL Toolkit, Open Biz, Open Client, Open ClientConnect, Open Client/Server, Open Client/Server Interfaces, Open Gateway, Open Server, Open ServerConnect, Open Solutions, Optima++, PB-Gen, PC APT Execute, PC Net Library, Power++, power.stop, PowerAMC, PowerBuilder, PowerBuilder Foundation Class Library, PowerDesigner, PowerDimensions, PowerDynamo, PowerJ, PowerScript, PowerSite, PowerSocket, Powersoft, PowerStage, PowerStudio, PowerTips, Powersoft Portfolio, Powersoft Professional, PowerWare Desktop, PowerWare Enterprise, ProcessAnalyst, Rapport, Report Workbench, Report-Execute, Replication Agent, Replication Driver, Replication Server, Replication Server Manager, Replication Toolkit, Resource Manager, RW-DisplayLib, S-Designor, SDF, Secure SQL Server, Secure SQL Toolset, Security Guardian, SKILS, smart.partners, smart.parts, smart.script, SQL Advantage, SQL Anywhere, SQL Anywhere Studio, SQL Code Checker, SQL Debug, SQL Edit, SQL Edit/TPU, SQL Everywhere, SQL Modeler, SQL Remote, SQL Server, SQL

Server Manager, SQL SMART, SQL Toolset, SQL Server/CFT, SQL Server/DBM, SQL Server SNMP SubAgent, SQL Station, SQLJ, STEP, SupportNow, S.W.I.F.T. Message Format Libraries, Sybase Central, Sybase Client/Server Interfaces, Sybase Financial Server, Sybase Gateways, Sybase MPP, Sybase SQL Desktop, Sybase SQL Lifecycle, Sybase SQL Workgroup, Sybase User Workbench, SybaseWare, Syber Financial, SyberAssist, SyBooks, System 10, System 11, System XI (logo), SystemTools, Tabular Data Stream, TradeForce, Transact-SQL, Translation Toolkit, UltraLite.NET, UNIBOM, Unilib, Uninull, Unisep, Unistring, URK Runtime Kit for UniCode, Viewer, Visual Components, VisualSpeller, VisualWriter, VQL, WarehouseArchitect, Warehouse Control Center, Warehouse Studio, Warehouse WORKS, Watcom, Watcom SQL, Watcom SQL Server, Web Deployment Kit, Web.PB, Web.SQL, WebSights, WebViewer, WorkGroup SQL Server, XA-Library, XA-Server and XP Server are trademarks of Sybase, Inc. 11/02

Unicode and the Unicode Logo are registered trademarks of Unicode, Inc.

All other company and product names used herein may be trademarks or registered trademarks of their respective companies.

Use, duplication, or disclosure by the government is subject to the restrictions set forth in subparagraph (c)(1)(ii) of DFARS 52.227-7013 for the DOD and as set forth in FAR 52.227-19(a)-(d) for civilian agencies.

Sybase, Inc., One Sybase Drive, Dublin, CA 94568.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

This book describes the objects in the PowerBuilder Foundation Class Library (PFC). Each object's discussion includes:

- A diagram providing a quick overview of the object's capabilities
- Instance variables
- Events and user events
- Object functions

Online Help The PFC online Help (pbpfc90.hlp) contains all the objects, events, and functions explained in this book. This Help file includes customized buttons and links to help you navigate through inheritance hierarchies and related objects.

For PFC usage information, see the PowerBuilder Foundation Class Library User's Guide.

Audience

This book is for experienced PowerBuilder developers. It assumes that:

- You are currently developing applications using PowerBuilder and understand the concepts and techniques described in the PowerBuilder Application Techniques book
- You understand SQL and how to use your site-specific DBMS

Other sources of information

Use the Sybase Technical Library CD and the Technical Library Product Manuals web site to learn more about your product:

- The Technical Library CD contains product manuals and is included with your software. The DynaText reader (included on the Technical Library CD) allows you to access technical information about your product in an easy-to-use format.

  Refer to the Technical Library Installation Guide in your documentation package for instructions on installing and starting the Technical Library.

- The Technical Library Product Manuals web site is an HTML version of the Technical Library CD that you can access using a standard web browser. In addition to product manuals, you will find links to EBFs/Updates, Technical Documents, Case Management, Solved Cases, newsgroups, and the Sybase Developer Network.

  To access the Technical Library Product Manuals web site, go to Product Manuals at

http://www.sybase.com/support/manuals/ .

If you need help

Each Sybase installation that has purchased a support contract has one or more designated people who are authorized to contact Sybase Technical Support. If you cannot resolve a problem using the manuals or online help, please have the designated person contact Sybase Technical Support or the Sybase subsidiary in your area.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

Object Reference Conventions

About this chapter

This chapter describes the conventions used in this book and the PFC online Help file.

Contents

Topic
Naming conventions
Online Help
Sample application and code examples

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

Naming conventions

Object naming conventions

PFC uses the following prefix standard for object names:

pfcobject_type_objectname

where:

- *pfcobject* indicates whether the object is part of the PFC level or the extension level. Objects that are part of the PFC level have the prefix PFC_
- *type* indicates the object type

This table describes the object types.

Prefix	Description
m_	Menu
n_	Standard class user object
n_cst	Custom class user object
s_	Global structure
u_	Visual user object
w_	Window

For example:

- Pfc_w_master is the master window and is in the PFC level
- Pfc_u_tvs is the TreeView visual user object and is in the PFC level
- U_dw is the DataWindow visual user object and is in the extension level

- N_cst_dwsrv is the custom class user object for DataWindow services and is in the extension level
- N_tr is the transaction standard class user object and is in the extension level

Variable naming conventions

PFC uses the following standard for variable names:

<scope><datatype>_variablename

Scope is one of the following:

Prefix	Description
a	Argument to an event or function
g	Global variable
i	Instance variable
l	Local variable
s	Shared variable

For standard data types, *datatype* is one of the following:

Prefix	Description
a	Any
blb	Blob
b	Boolean
ch	Character
d	Date
dtm	DateTime
dc	Decimal
dbl	Double
e	Enumerated
i	Integer
l	Long
r	Real
s	String
tm	Time
ui	UnsignedInteger
ul	UnsignedLong

For reference variables, *datatype* is one of the following:

Prefix	Description
app	Application
ab	ArrayBounds
cbx	CheckBox
cb	CommandButton
cd	ClassDefinition
cdo	ClassDefinitionObject
cn	Connection
cninfo	ConnectionInfo
cno	ConnectObject
cxk	ContextKeyword
cxinfo	ContextInformation
cpp	cplusplus
ds	DataStore
dw	DataWindow
dwc	DataWindowChild

drg	DragObject
drw	DrawObject
ddplb	DropDownPictureListBox
ddlb	DropDownListBox
dwo	DWobject
dda	DynamicDescriptionArea
dsa	DynamicStagingArea
ed	EnumerationDefinition
eid	EnumerationItemDefinition
em	EditMask
env	Environment
err	Error
ext	ExtObject
gr	Graph
go	GraphicObject
grax	GrAxis
grda	GrDispAttr
gb	GroupBox
hsb	HorizontalScrollBar
inet	Inet
ir	InternetResult
ln	Line
lb	ListBox
lv	ListView
lvi	ListViewItem
mfd	MailFileDescription
mm	MailMessage
mr	MailRecipient
ms	MailSession
mdi	MDIClient
m	Menu
mc	MenuCascade
msg	Message
mle	MultiLineEdit
nv	NonVisualObject
oc	OleControl
oo	OleObject
ostg	OleStorage
omc	OmControl
omcc	OmCustomControl
omec	OmEmbeddedControl
omo	OmObject
omstm	OmStream
omstg	OmStorage
oval	Oval
p	Picture
pb	PictureButton
pbcpp	PBToCPPObject
plb	PictureListBox
pl	Pipeline
po	PowerObject
procall	ProfileCall
proclass	ProfileClass
proln	ProfileLine

prort	ProfileRoutine
pro	Profiling
rb	RadioButton
rec	Rectangle
rem	RemoteObject
rte	RichTextEdit
rrec	RoundRectangle
rteo	RteObject
scrd	ScriptDefinition
sle	SingleLineEdit
srv	Service
st	StaticText
std	SimpleTypeDefinition
str	Structure
tab	Tab
tabpg	TabPage
tcan	TraceActivityNode
tcbe	TraceBeginEnd
tcerr	TraceError
tcf	TraceFile
tcln	TraceLine
tcgc	TraceGarbageCollect
tco	TraceObject
tcrt	TraceRoutine
tcsql	TraceSQL
tct	TraceTree
tctn	TraceTreeNode
tcterr	TraceTreeError
tctsql	TraceTreeSQL
tctgc	TraceTreeGarbageCollect
tctln	TraceTreeLine
tcto	TraceTreeObject
tctrt	TraceTreeRoutine
tctu	TraceTreeUser
tcu	TraceUser
td	TypeDefinition
tr	Transaction
trp	Transport
tv	TreeView
tvi	TreeViewItem
uo	UserObject
vrcd	VariableCardinalityDefinition
vrd	VariableDefinition
vsb	VerticalScrollBar
wo	WindowObject
w	Window

Function naming conventions

Global functions use the f_ prefix and object functions use the of_ prefix.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

Online Help

Accessing Help

The PFC online Help file contains all information found in this manual, as well as hypertext links among related topics. There are many ways to access this file:

- **From the PowerBuilder Help Contents tab** The PowerBuilder Help screen includes a jump to PFC Help.
- **Double-click the filename (pbpfc90.hlp) from the Explorer or File Manager** This displays the Contents tab, which you can use to view lists of objects.
- **Using SHIFT+F1 from the Script view** This displays Help for the selected object function or event.

Navigating through the Help fileThe PFC Help file provides many helpful links among objects, functions, and events:

- **From an object** You can display a dialog box with jumps to instance variables, events, and functions. You can also:
  - Click the See Also button to jump to related objects
  - Click the Descendants button to display a list of descendants, if any
  - Click the Ancestor button to jump to the ancestor object
- **From an event or function** You can display a code example, if appropriate, for the event or function. You can also:
  - Click the See Also button to jump to related objects
  - Click the Object button to jump to the parent object

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

Sample application and code examples

Sample application

The PEAT sample application shows you how to use PFC for a simple project estimation and tracking system. It includes examples of windows, DataWindows, tabs, TreeViews, ListViews, and custom class user objects.

By default, the PEAT application is installed in the PFC\DemoApp directory.

Code examples

The APPEXAMP code examples application shows you how to use selected PFC objects and services. Its includes examples of application services, windows, window services, DataWindows, DataWindow services, tabs, TreeViews, ListViews, and custom class user objects.

By default, the code examples are installed in the PFC\Examples directory.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

Window Objects

About this chapter

This chapter describes the base-class windows in the PowerBuilder Foundation Class Library (PFC).

Each discussion includes information on usage, instance variables, events, and functions.

Contents

The windows are listed in alphabetical order. The information for each window includes an alphabetical listing of instance variables, events, and object functions.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

w_child

{button Ancestor,JI(`>main',`caiechcd')} {button See also,PI(`',`id_pfcoref_11')}

Description

Ancestor for all PFC child windows.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this window as the ancestor for all of your application's child windows.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

w_child

w_master

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

w_frame

{button Ancestor,JI(`>main',`caiechcd')} {button See also,PI(`',`id_pfcoref_13')} {button Functions,JI(`>list_win',`id_pfcoref_32')} {button Events,JI(`>list_win',`id_pfcoref_15')} {button Instance variables,JI(`>list_win',`id_pfcoref_14')}

Description

Ancestor frame window for all MDI applications.

It includes MicroHelp automatically. To create a frame window without MicroHelp, either modify or rename your application's frame window.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

m_frame

n_cst_toolbarattrib

w_statusbar

w_toolbars

Usage

Use this window or a descendant as the frame window for all MDI applications that use PFC.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

w_frame

m_frame

w_master

w_statusbar

w_toolbars

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

w_frame

{button Functions,JI(`>list_win',`id_pfcoref_32')} {button Events,JI(`>list_win',`id_pfcoref_15')}

W_frame includes instance variables:

Instance variable	Description	Data type	Access	Usage
inv_sheetmanager	Reference variable for sheet management service	n_cst_winsrv_sheetmanager	Public	Set with of_SetSheetManager
inv_statusbar	Reference variable for status bar service	n_cst_winsrv_statusbar	Public	Set with of_SetStatusBar

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

w_frame

{button Functions,JI(`>list_win',`id_pfcoref_32')} {button Instance variables,JI(`>list_win',`id_pfcoref_14')}

- **Activate event**
- **Close event**
- **Hide event**
- **Move event**
- **pfc_Cascade event**
- **pfc_Layer event**
- **pfc_MicroHelp event**
- **pfc_MinimizeAll event**
- **pfc_PostOpen event**
- **pfc_PreToolbar event**
- **pfc_TileHorizontal event**
- **pfc_TileVertical event**
- **pfc_Toolbars event**

pfc_UndoArrange event

Resize event

Show event

W_frame includes precoded events:

Activate	pfc_PostOpen
Close	pfc_PreToolbar
Hide	pfc_TileHorizontal
Move	pfc_TileVertical
pfc_Cascade	pfc_Toolbars
pfc_Layer	pfc_UndoArrange
pfc_MicroHelp	Resize
pfc_MinimizeAll	Show

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

Activate event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_appmanager of_SetFrame function to establish this window as the active frame.

This event extends the ancestor Activate event.

Usage

This event executes when the window becomes active.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

Close event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Destroys any instantiated services.

Usage

This event executes when the window closes.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

Hide event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_winsrv_statusbar pfc_Hide event.

Usage

This event executes when the window is hidden.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

Move event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Positions the status bar when the user moves the window.

This event extends the ancestor Move event.

Usage

This event executes when the user moves the frame window.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

pfc_Cascade event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_winsrv_sheetmanager pfc_Cascade event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window>Cascade from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_Layer event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_winsrv_sheetmanager pfc_Layer event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window>Layer from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

pfc_MicroHelp event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Displays the passed string in the status bar.

This event extends the w_master pfc_MicroHelp event.

Syntax

instancename.EVENT **pfc_MicroHelp** (*microhelp*)

Argument	Description
instancename	Instance name of w_frame
microhelp	String to be displayed in the status bar

Return value

None

Usage

This event is called by u_dw ItemFocusChanged event. It is also extended in w_sheet.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

pfc_MinimizeAll event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Minimizes all open sheets.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window>Minimize All from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

pfc_PostOpen event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Opens the w_statusbar window if this capability has been requested through the of_SetStatusBar function.

This event extends the w_master pfc_PostOpen event.

Usage

This event executes after the window opens.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_PreToolbar event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Populates toolbar attributes.

Syntax

instancename.EVENT **pfc_PreToolbar** (*attributes*)

Argument	Description
instancename	Instance name of w_frame
attributes	N_cst_toolbarattrib variable into which the event places toolbar attributes (passed by reference)

Usage

The pfc_Toolbars event calls this event before displaying the w_toolbars dialog box.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

pfc_TileHorizontal event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Tiles sheets horizontally.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window >Tile Horizontal from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_TileVertical event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Tiles open sheets vertically.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window>Tile Vertical from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_Toolbars event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Displays the w_toolbars dialog box.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the w_toolbars dialog box, and -1 if an error occurs.

Usage

This event executes when the user selects View>Toolbars from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

pfc_UndoArrange event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_winsrv_sheetmanager pfc_UndoArrange event.

Return value

Integer. Returns the number of sheets undone if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Window>Undo Arrange from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

Resize event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Positions the status bar when the user resizes the window.

Usage

This event executes when the user resizes the frame window.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

Show event (w_frame)

{button Object,JI(`>main',`caicdfeh')}

Description

Calls the n_cst_winsrv_statusbar pfc_Show event.

Usage

This event executes when the window displays after being hidden.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

w_frame

{button Events,JI(`>list_win',`id_pfcoref_15')} {button Instance variables,JI(`>list_win',`id_pfcoref_14')}

of_SetSheetManager function

of_SetStatusBar function

W_frame includes precoded object functions:

of_SetSheetManager

of_SetStatusBar

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_SetSheetManager function (w_frame)

{button Object,JI(`>main',`caicdfeh')} {button Examples,JI(`>Examples',`id_pfcoref_34')}

Description

Creates or destroys an instance of n_cst_winsrv_sheetmanager, which provides sheet management services.

Access

Public

Syntax

windowname.**of_SetSheetManager** (*boolean*)

Argument	Description
windowname	Instance name of w_frame
boolean	Boolean specifying whether to create (TRUE) or destroy (FALSE) an instance of the n_cst_winsrv_sheetmanager object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetSheetManager function (w_frame)

This example calls the of_SetSheetManager function:

```
of_SetSheetManager(TRUE)

of_SetStatusBar(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_SetStatusBar function (w_frame)

```
{button Object,JI(`>main',`caicdfeh')} {button
Examples,JI(`>Examples',`id_pfcoref_36')}
```

Description

Creates or destroys an instance of n_cst_winsrv_statusbar, which provides status bar services and opens the w_statusbar at the bottom of the frame.

Access

Public

Syntax

windowname.**of_SetStatusBar** (*boolean*)

Argument	Description
windowname	Instance name of w_frame
boolean	Boolean specifying whether to create (TRUE) or destroy (FALSE) an instance of the n_cst_winsrv_statusbar object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetStatusBar function (w_frame)

This example calls the of_SetStatusBar function:

```
of_SetStatusBar (TRUE)
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

w_main

{button Ancestor,JI(`>main',`caiechcd')} {button See also,PI(`',`id_pfcoref_38')}

Description

Ancestor main window for all SDI applications.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use w_main as the ancestor window for all single document interface (SDI) applications.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

w_main

w_master

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

w_master

{button See also,PI(`',`id_pfcoref_41')} {button Functions,JI(`>list_win',`id_pfcoref_99')} {button Events,JI(`>list_win',`id_pfcoref_43')} {button Instance variables,JI(`>list_win',`id_pfcoref_42')} {button Descendants,JI(`>list_win',`id_pfcoref_40')}

Description

W_master is the ancestor for all PFC windows. It includes instance variables, events, and functions that are accessed by many PFC objects.

W_master is a self-updating object.

Ancestry

Window

pfc_w_master
w_master

Events

Activate	pfc_MicroHelp	pfc_PreUpdate
Close	pfc_MRUClicked	pfc_Print
CloseQuery	pfc_MRUProcess	pfc_PrintImmediate
Move	pfc_MRURestore	pfc_Save
Open	pfc_MRUSave	pfc_SaveAs
pfc_AcceptText	pfc_New	pfc_SaveObjects
pfc_BeginTran	pfc_Open	pfc_Update
pfc_Close	pfc_PageSetup	pfc_UpdateObjects
pfc_ControlGotFocus	pfc_PostOpen	pfc_UpdatePrep
pfc_DBError	pfc_PostUpdate	pfc_UpdatesPending
pfc_Descendant	pfc_PreClose	pfc_UpdatesPendingRef
pfc_EndTran	pfc_PreMRUSave	pfc_Validation
pfc_Help	pfc_PreOpen	Resize
pfc_MessageRouter		

Object functions

Public	of_AcceptText	Public	of_SetDBErrorMsg
Public	of_GetCloseStatus	Public	of_SetLogicalUnitOfWork
Protected	of_GetDWType	Public	of_SetPreference
Public	of_GetInfo	Public	of_SetResize
Public	of_GetSaveStatus	Protected	of_SetUpdateable
Protected	of_GetUpdateObjects	Protected	of_SetUpdateObjects
Protected	of_IsAlwaysValidate	Protected	of_SetupdateRequestor
Protected	of_IsUpdateable	Public	of_Update
Protected	of_MessageBox	Protected	of_UpdateChecks
Public	of_PostUpdate	Public	of_UpdatePrep
Protected	of_SetAlwaysValidate	Public	of_UpdatesPending
Public	of_SetBase	Public	of_Validation

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Object relationships

n_cst_appmanager

n_cst_dberrorattrib

n_cst_dwsrv_linkage

n_cst_luw

n_cst_winsrv

n_cst_winsrv_preference

n_cst_resize

u_dw

Usage

When writing a PFC-based application, all windows must descend from w_master.

W_master is the ancestor of all PFC windows. When you add instance variables, events, and functions to w_master, they are immediately available in all PFC windows.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

w_master

w_child

w_frame

w_main

w_popup

w_response

w_sheet

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

w_master

n_cst_appmanager

n_cst_winsrv

n_cst_winsrv_preference

n_cst_resize

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

w_master

{button Functions,JI(`>list_win',`id_pfcoref_99')} {button Events,JI(`>list_win',`id_pfcoref_43')}

W_master includes instance variables:

Instance variable	Description	Data type	Access	Usage
CONTINUE_ACTION	Constant set to 1	Integer	Public	Internal
FAILURE	Constant set to -1	Integer	Public	Internal
ia_helptypeid	Controls whether PFC calls the ShowHelp function by topic, keyword, or index	Any	Protected	Set programmatically
ib_alwaysvalidate	Controls whether the save process includes all objects in the validation process	Boolean	Protected	Set with of_SetAlwaysValidate (default is FALSE)
ib_closestatus	Indicates whether the window is closing	Boolean	Protected	Internal
ib_disableclosequery	Indicates whether CloseQuery processing is	Boolean	Protected	Internal

	enabled			
ib_isupdateable	Indicates whether the window can be updated	Boolean	Protected	Set with of_SetUpdateable (default is TRUE)
ib_savestatus	Controls whether message display during the save process	Boolean	Protected	Internal
idw_active	Current DataWindow	U_dw	Protected	Internal
inv_base	Reference variable for basic window services	n_cst_winsrv	Public	Set with of_SetBase
inv_dberrorattrib	Contains database error information	n_cst_ dberrorattrib	Protected	Set with of_SetDBErrorMsg
inv_luw	Reference variable for logical unit of work service	n_cst_luw	Protected	Set with of_ SetLogicalUnitOfWork
inv_preference	Reference variable for window preference service	n_cst_winsrv_ preference	Public	Set with of_SetPreference
inv_resize	Reference variable for resize service	n_cst_resize	Public	Set with of_SetResize
ipo_pendingupdates[ ]	Default list of objects to be updated	PowerObject	Protected	Internal
ipo_updateobjects[ ]	Customized list of objects to be updated	PowerObject	Protected	Internal
ipo_ tempupdateobjects[ ]	One-time list of objects to be updated	PowerObject	Protected	Internal
ipo_updaterequestor	Owner of the save process	PowerObject	Protected	Internal
NO_ACTION	Constant set to 0	Integer	Public	Internal
PREVENT_ACTION	Constant set to 0	Integer	Public	Internal
SUCCESS	Constant set to 1	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

w_master

{button Functions,JI(`>list_win',`id_pfcoref_99')} {button Instance variables,JI(`>list_win',`id_pfcoref_42')}

- Activate event
- Close event
- CloseQuery event
- Move event
- Open event
- pfc_AcceptText event
- pfc_BeginTran event
- pfc_Close event
- pfc_ControlGotFocus event
- pfc_DBError event
- pfc_Descendant event
- pfc_EndTran event
- pfc_Help event
- pfc_MessageRouter event
- pfc_MicroHelp event

pfc_MRUClicked event
pfc_MRUProcess event
pfc_MRURestore event
pfc_MRUSave event
pfc_New event
pfc_Open event
pfc_PageSetup event
pfc_PostOpen event
pfc_PostUpdate event
pfc_PreClose event
pfc_PreMRUSave event
pfc_PreOpen event
pfc_PreUpdate event
pfc_Print event
pfc_PrintImmediate event
pfc_Save event
pfc_SaveAs event
pfc_SaveObjects event
pfc_Update event
pfc_UpdateObjects event
pfc_UpdatePrep event
pfc_UpdatesPending event
pfc_UpdatesPendingRef event
pfc_Validation event
Resize event

W_master includes precoded events:

Activate
Close
CloseQuery
Move
Open
pfc_AcceptText
pfc_BeginTran
pfc_Close
pfc_ControlGotFocus
pfc_DBError
pfc_Descendant
pfc_EndTran
pfc_Help
pfc_MessageRouter
pfc_MicroHelp
pfc_MRUClicked
pfc_MRUProcess
pfc_MRURestore
pfc_MRUSave
pfc_New
pfc_Open
pfc_PageSetup
pfc_PostOpen
pfc_PostUpdate
pfc_PreClose
pfc_PreMRUSave
pfc_PreOpen
pfc_PreUpdate
pfc_Print
pfc_PrintImmediate
pfc_Save
pfc_SaveAs
pfc_SaveObjects
pfc_Update
pfc_UpdateObjects
pfc_UpdatePrep
pfc_UpdatesPending
pfc_UpdatesPendingRef
pfc_Validation
Resize

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

Activate event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_mru pfc_MRURestore event to restore changed menu items as needed.

Usage

This event executes when the window becomes active.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

Close event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Stores preference information and destroys any existing window service objects.

Usage

This event executes when a window closes.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

CloseQuery event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Accesses all DataWindows, checks for validation errors and, if changes are pending, prompts the user to save the changes.

Usage

This event executes when a window closes, just before the Close event. It calls one or more of the following:

- Pfc_PreClose
- Of_UpdateChecks
- Pfc_Save

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

Move event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Stores the window position and size.

Usage

This event executes when the user moves a window.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

Open event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Triggers the pfc_PreOpen event and posts the pfc_PostOpen event. If the preference and MRU services are enabled, this event also restores window settings and MRU information.

Usage

This event executes when the window opens. It's best to add application-specific code to either the pfc_PreOpen or pfc_PostOpen events.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

pfc_AcceptText event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_luw of_AcceptText function, which in turn calls the of_AcceptText function for all controls that implement it.

Syntax

instancename.EVENT **pfc_AcceptText** (*controlarray*, *focusonerror*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject array containing the controls for which to accept text. From within the pfc_AcceptText event, access this value through the *apo_control* argument
focusonerror	Boolean specifying whether to set focus on a DataWindow column with errors. From within the pfc_AcceptText event, access this value through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the of_UpdateChecks function.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

pfc_BeginTran event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Empty user event that you extend to perform start-of-transaction processing.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the pfc_Save event.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

pfc_Close event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Closes the window.

Usage

Call this event to close a window.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_ControlGotFocus event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Triggered when a PFC visual control gets focus. This event keeps track of the current control.

Syntax

instancename.EVENT **pfc_ControlGotFocus** (*control*)

Argument	Description
instancename	Instance name of the w_master-based descendant
control	DragObject variable containing the control that just received focus

Usage

This event is called by PFC visual controls when they get focus.

Use this event to add application-specific functionality to be performed when a visual control gets focus.

If the control getting focus is a DataWindow inherited from u_dw, this event sets the idw_active instance variable.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

pfc_DBError event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Displays a database error encountered during the pfc_Save process.

Usage

This event is called by pfc_Save if an update error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

pfc_Descendant event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

PFC events and functions call this event to determine if the window is inherited from w_master.

Return value

Boolean. Always returns TRUE.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

pfc_EndTran event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_56')}

Description

Empty user event that you extend to initiate end-of-transaction processing, such as COMMIT or ROLLBACK.

Syntax

instancename.EVENT **pfc_EndTran** (*savecode*)

Argument	Description
instancename	Instance name of the w_master-based descendant
savecode	Integer specifying the return code from the pfc_Update function. From within the pfc_EndTran event, access this value through the *ai_update_results* argument

Return value

Integer. Return 1 if the end transaction process succeeds and other application-specific values as appropriate.

Usage

This event is called by pfc_Save. The value passed in *savecode* indicates whether previous updates succeeded or failed. Based on *savecode*, you extend this event to add COMMIT, ROLLBACK, or other end-of-transaction processing.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

pfc_EndTran event (w_master)

This example extends the pfc_EndTran event to COMMIT all open transactions. This example returns 0 if it succeeds and -1 if a COMMIT fails:

```
n_tr  ltr_trans[ ]
```

```
Integer  li_trans, li_count
Long  ll_return

li_trans = &
  gnv_app.inv_trregistration.of_GetRegistered &
    (ltr_trans)
IF li_trans = 0 THEN Return 0
For li_count = 1 to li_trans
  ll_return = ltr_trans[li_count].of_Commit()
  IF ll_return < 0 THEN Return -1
Next
Return 0
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_Help event (w_master)

```
{button Object,JI(`>main',`caiechcd')}
```

Description

Calls the ShowHelp function by index, topic or keyword, based on the ia_helptypeid instance variable.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the window has focus and the user selects Help>Help Topics from the menu bar of a menu that descends from the PFC m_master menu. You can also trigger it directly (from a Help CommandButton, for example).

If the Help type ID is not specified, this event opens the top-level Help contents topic. Call the n_cst_appmanager of_SetHelpfile function to specify the application's Help filename.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

pfc_MessageRouter event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Triggers the passed user event. This event first attempts to trigger the passed user event on the window, then the current control. If the user event is not found, it then attempts to trigger the passed user event on the last active DataWindow control.

Syntax

instancename.EVENT **pfc_MessageRouter** (*userevent*)

Argument	Description
instancename	Instance name of the w_master-based descendant
userevent	String specifying the event to trigger. From within the pfc_MessageRouter event, access this value through the *as_message* argument

Return value

Integer. Returns 1 if the event succeeds, 0 if no objects contain the user event, and -1 if an error occurs.

Usage

This event is triggered when the user selects a menu choice that calls the of_SendMessage menu function.

All PFC visual controls, including u_dw, include events that work with the message router.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

pfc_MicroHelp event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Ancestor event to which descendants add code that displays MicroHelp.

Syntax

instancename.EVENT **pfc_MicroHelp** (*microhelp*)

Argument	Description
instancename	Instance name of the w_master-based descendant
microhelp	String to be displayed in the status bar

Usage

This event is called by u_dw ItemFocusChanged event. It is extended in w_frame and w_sheet.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_MRUClicked event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Checks for the existence of the specified menu item in the MRU DataStore and calls the pfc_MRUProcess event if the menu item is found.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_MRUProcess event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_62')}

Description

Empty user event that you extend to open the appropriate window based on the clicked MRU menu item.

Syntax

instancename.EVENT **pfc_MRUProcess** (*row*)

Argument	Description
instancename	Instance name of the w_master-based descendant
row	Integer specifying the MRU DataStore row that corresponds to the clicked MRU

menu item. From within the pfc_MRUProcess event, access this value through the *ai_row*argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

You extend this event to open windows (SDI) or sheets (MDI) with or without passing parameters.

The pfc_w_master ancestor contains sample code for this event.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_MRUProcess event (w_master)

This example shows code you might add to the pfc_MRUProcess event:

```
window  lw_frame, lw_window


n_cst_menu  lnv_menu
n_cst_mruattrib  lnv_mruattrib

// check parameters
if isnull(ai_row) or (ai_row < 1) then
        return -1
end if
if not isvalid(gnv_app.inv_mru) then
        return -1
end if
// retrieve row from datastore and do work with it
gnv_app.inv_mru.of_getitem(ai_row, lnv_mruattrib)
// get the mdi frame if necessary
lnv_menu.of_getmdiframe(this.menuid, lw_frame)
//example opens
// SDI Process
//open(lw_window, lnv_mruattrib.is_classname)
//openwithparm(lw_window,  &
//   lnv_mruattrib.is_menuitemkey,  &
//     lnv_mruattrib.is_classname)
// MDI Process
//opensheet(lw_window, lnv_mruattrib.is_classname,  &
//   lw_frame)
//opensheet(lw_window, lnv_mruattrib.is_classname,  &
//  lw_frame, 0, original!)
Return opensheetwithparm(lw_window,  &
  lnv_mruattrib.is_menuitemkey, &
    lnv_mruattrib.is_classname, lw_frame, 0,  &
      original! )
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

pfc_MRURestore event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_64')}
```

Description

Empty user event that you extend to restore MRU settings.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Add code to this event that calls the n_cst_mru of_Restore function.

The pfc_w_master ancestor contains sample code for this event.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_MRURestore event (w_master)

This example shows the code you add to the pfc_MRURestore event:

```
If IsValid(gnv_app.inv_mru) Then

   Return gnv_app.inv_mru.of_Restore(ls_id, This)
End If
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_MRUSave event (w_master)

```
{button Object,JI(`>main',`caiechcd')}
```

Description

Saves MRU information for the current window.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Call this event when the window opens (typically in the pfc_PreOpen event).

This event calls the pfc_PreMRUSave event. You must add code to pfc_PreMRUSave that populates the n_cst_mruattrib object with the ID, classname, key, menu item text, and menu item help to be saved.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

pfc_New event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_67')}

Description

Empty user event into which you place code that performs processing to add a new entity to the current window, window control, or DataWindow.

Usage

Use this event for application- and window-specific new entity processing.

This event is triggered when the user selects File>New from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

pfc_New event (w_master)

This example, which might be found in a descendent sheet or main window, inserts a new row into the active DataWindow when the user selects File>New from the menu bar:

```
idw_active.InsertRow(0)
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

pfc_Open event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_69')}

Description

Empty user event into which you place code that performs processing to open a new entity (typically a file) in the current window, window control, or DataWindow.

Usage

Use this event for application- and window-specific open processing.

This event is triggered when the user selects File>Open from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

pfc_Open event (w_master)

This example, which might be found in a descendent sheet or main window, displays the Open dialog box when the user selects File>Open from the menu bar. Is_fullname and is_filename are instance variables:

```
Integer  li_fileid


SetPointer (HourGlass!)
IF GetFileOpenName &
  ("Open", is_fullname, is_filename &
    "txt", "Text Files (*.txt),*.txt) < 1 THEN
      Return
END IF

// Open the new file and put results into the MLE.
li_fileid = FileOpen(is_fullname, StreamMode!)
FileRead (li_fileid, mle_notepad.text)
FileClose (li_fileid)
...
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

pfc_PageSetup event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_71')}
```

Description

Empty user allowing you to add code to display a Page Setup dialog box and print multiple DataWindows.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Call this event to synch page setup properties among multiple DataWindows.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_PageSetup event (w_master)

This example synchs the paper source for three DataWindows:

```
Integer  li_rc

s_pagesetupattrib  lstr_pagesetup

li_rc = dw_1.event pfc_PageSetupDlg(lstr_pagesetup)
IF li_rc = 1 THEN
  dw_2.object.datawindow.print.paper.source = &
    lstr_pagesetup.i_papersource
  dw_3.object.datawindow.print.paper.source = &
    lstr_pagesetup.i_papersource
END IF
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

pfc_PostOpen event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_73')}
```

Description

Empty user event into which you place code that performs processing just after a window opens.

Usage

Use this event for application- and window-specific post-open processing. This event executes just after a window opens.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

pfc_PostOpen event (w_master)

This example calls the Retrieve function in a window's pfc_PostOpen event:

```
Long  ll_return
```

```
ll_return = dw_employee.EVENT pfc_Retrieve()
IF ll_return = -1 THEN
  MessageBox("Retrieve", "Retrieval error")
ELSE
  gnv_app.of_getframe().SetMicroHelp &
    (String(ll_return) + " rows retrieved")
END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

pfc_PostUpdate event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_luw of_PostUpdate function, which in turn calls the of_PostUpdate function for all controls that implement it.

Syntax

instancename.EVENT **pfc_PostUpdate** (*controlarray*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject array containing the controls for which to perform post update processing. From within the pfc_AcceptText event, access this value through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The pfc_Save user event calls this event after calling the pfc_DBError user event.

You can extend this event to perform additional post-update processing.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

pfc_PreClose event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_76')}

Description

Empty user event that you extend to perform processing just before a window closes.

Return value

Integer. Return 1 if the pre-close process succeeds and -1 to prevent the window from closing.

Usage

Use this event for application- and window-specific pre-close processing.

This event executes just before CloseQuery processing.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

pfc_PreClose event (w_master)

This example uses the pfc_PreClose function to write to a log file:

```
IF inv_filesrv.of_FileWrite &

  (is_logfile, "Window: " + this.title &
    + " closing at " + String(Today()) &
    + String(Now()),TRUE) = 1 THEN
  Return 1
ELSE
  Return -1
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_PreMRUSave event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_78')}
```

Description

Empty user event that you extend to create MRU information that you can later access when opening windows.

Syntax

instancename.EVENT **pfc_PreMRUSave** (*mruattrib*)

Argument	Description
instancename	Instance name of the w_master-based descendant
mruattrib	N_cst_mruattrib into which the event places window information

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The pfc_MRUSave event calls this event.

The pfc_w_master ancestor contains sample code for this event.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_PreMRUSave event (w_master)

This example shows code you might add to the pfc_PreMRUSave event:

```
anv_mruattrib.is_id = "empinfo"

anv_mruattrib.is_classname = this.classname()
anv_mruattrib.is_menuitemname = this.title
anv_mruattrib.is_menuitemkey = this.classname()
anv_mruattrib.is_menuitemmhelp = &
   "Opens " + this.classname()
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

pfc_PreOpen event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_80')}
```

Description

Empty user event into which you place code that performs processing just before a window opens.

Usage

Use this event for application- and window-specific pre-open processing.

If you are using n_cst_mru to track most recently used windows, you typically call the pfc_MRUSave event from this event.

This event executes just before a window opens.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

pfc_PreOpen event (w_master)

This example connects to the database in the frame window's pfc_PreOpen event:

```
String  ls_file, ls_section

Long  ll_return

ls_file = "c:\pbapp\pbapp.ini"
ls_section = "PBAppDB"

itr_pbapp.of_Init(ls_file, ls_section)
ll_return = itr_pbapp.of_Connect()
IF ll_return <> 0 THEN
  itr_pbapp.of_Rollback()
  MessageBox("PBApp", "Connect error")
END IF
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

pfc_PreUpdate event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_82')}
```

Description

Empty user event into which you place pre-save processing.

Return value

Integer. Return 1 if the pre-save processing succeeds and -1 if it does not.

Usage

Extend this event to perform application-specific pre-save processing.

The pfc_Save user event calls this event before performing any save processing. If you return -1, save processing terminates.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

pfc_PreUpdate event (w_master)

This example adds code to the pfc_PreUpdate event to check for user ID:

```
String  ls_user


ls_user = gnv_app.of_GetUserID()
IF ls_user = "RNielsen" THEN
  Return -1
ELSE
  Return 1
END IF
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

pfc_Print event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_84')}
```

Description

Empty user event into which you place code that prints windows or DataWindows, first displaying the Print dialog box.

Usage

Extend this event to print application- and window-specific information. For example, you might print a single DataWindow. Alternatively, you might call the DataWindow report service's of_CreateComposite function to create a composite report of all the window's DataWindows.

This event is triggered when the user selects File>Print from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

pfc_Print event (w_master)

This example synchs the copies property of all DataWindows on the window:

```
Integer  li_rc


s_printdlgattrib  lstr_printdlg

li_rc = dw_1.Event pfc_PrintDlg(lstr_printdlg)
IF li_rc = 1 THEN
  dw_2.object.datawindow.print.copies = &
    lstr_printdlg.l_copies
  dw_3.object.datawindow.print.copies = &
    lstr_printdlg.l_copies
END IF
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

pfc_PrintImmediate event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_86')}
```

Description

Empty user event into which you place code that prints windows or DataWindows without displaying the Print dialog box.

Usage

Extend this event to print application- and window-specific information.

This event is triggered when the user selects File>Print Immediate from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

pfc_PrintImmediate event (w_master)

This example prints the dw_employee DataWindow:

```
IF dw_employee.Event pfc_PrintImmediate( ) <> 1 THEN

  Return -1
END IF
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

pfc_Save event (w_master)

```
{button Object,JI(`>main',`caiechcd')}
```

Description

Calls w_master user events and functions to save changes for all self-updating objects in the window.

Return value

Integer. Returns values as follows:

- **1** All save processes succeeded
- **0** No pending updates
- **-1** Accept text error
- **-2** Updates pending error
- **-3** Validation error
- **-4** Pre-update process failed
- **-5** Pfc_BeginTran failed
- **-6** Pfc_Update failed
- **-7** Pfc_EndTran failed
- **-8** Post-update process failed
- **-9** Update prep process failed

Usage

The CloseQuery event calls this user event automatically to check for pending updates and initiate the save process. You can call it from your application to save changes, as needed.

For more on the save process, see n_cst_luw.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

pfc_SaveAs event (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_89')}

Description

Empty user event allowing you to save all or part of a window.

Usage

This event is triggered when the user selects File>Save As from the menu bar of a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

pfc_SaveAs event (w_master)

This example displays the Save As dialog box:

```
String is_docname, is_named

Integer li_value

li_value = GetFileSaveName("Save As", &
  is_docname, is_named, "TXT", &
    "Text Files (*.TXT),*.TXT," + &
      " Doc Files (*.DOC), *.DOC")
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_SaveObjects event (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_91')}
```

Description

Performs a save on the specified controls.

Syntax

instancename.EVENT **pfc_SaveObjects** (*controlarray*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject array containing the controls for which to perform save processing. From within the pfc_SaveObjects event, access this value through the *apo_control* argument

Return value

Integer. Returns values as follows:

- **1** All save processes succeeded
- **0** No pending updates
- **-1** Accept text error
- **-2** Updates pending error
- **-3** Validation error
- **-4** Pre-update process failed
- **-5** Pfc_BeginTran failed
- **-6** Pfc_Update failed
- **-7** Pfc_EndTran failed
- **-8** Post-update process failed
- **-9** Update prep process failed

Usage

Call the of_SetUpdateObjects function to establish the array of controls to be updated.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

pfc_SaveObjects event (w_master)

This example calls the pfc_SaveObjects event:

```
PowerObject  lpo_save[ ]

Integer  li_return

lpo_save[1] = dw_1
this.of_SetUpdateObjects(lpo_save)
li_return = this.EVENT pfc_SaveObjects(lpo_save)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

pfc_Update event (w_master)

```
{button Object,JI(`>main',`caiechcd')}
```

Description

Calls the pfc_UpdateObjects event.

Syntax

instancename.EVENT **pfc_Update** (*controlarray*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject array containing the controls to be updated. From within the pfc_Update event, access this value through the ***apo_control*** argument

Return value

Integer. Returns 1 if the event succeeds and -1 if one or more DataWindow update errors occur.

Usage

The pfc_Save event calls this event.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

pfc_UpdateObjects event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_luw of_Update function, which in turn calls the of_Update function for all controls that implement it.

Syntax

instancename.EVENT **pfc_UpdateObjects** (*controls*, *accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
accepttext	Boolean specifying whether n_cst_luw should automatically perform an AcceptText before performing the Update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether n_cst_luw should automatically reset DataWindow update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the event succeeds, 0 if no action was taken, and -1 if one or more update errors occur.

Usage

The of_Update function and the pfc_Update event call this event.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

pfc_UpdatePrep event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Empty user event to which you can add code that prepares for update.

Syntax

instancename.EVENT **pfc_UpdatePrep** (*controls*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this event.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

pfc_UpdatesPending event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the pfc_UpdatesPendingRef event.

When CloseQuery calls this user event, validation messages are suppressed.

Syntax

instancename.EVENT **pfc_UpdatesPending** (*controlarray*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject array containing controls to be tested for pending updates

Return value

Integer. Returns values as follows:

- 1 Pending updates were found
- 0 No pending updates
- -1 AcceptText failed

Usage

The CloseQuery event calls this event to determine if there are pending updates.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_UpdatesPendingRef event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_luw of_UpdatesPending function, which in turn calls the of_UpdatesPending function for all controls that implement it.

Syntax

*instancename.Event***pfc_UpdatesPendingRef** (*controls*, *pending*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
pending	PowerObject array to contain objects with pending updates. This argument is accessed through the *apo_pending* argument (passed by reference)

Return value

Integer. Returns values, as follows:

- 1 Pending updates were found
- 0 No pending updates
- -1 AcceptText failed

Usage

The pfc_UpdatesPending event calls this event to determine if there are pending updates.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

pfc_Validation event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Calls the n_cst_luw of_Validation function, which in turn calls the of_Validation function for all controls that implement it.

Syntax

instancename.EVENT **pfc_Validation** (*controlarray*)

Argument	Description
instancename	Instance name of the w_master-based descendant
controlarray	PowerObject control array containing controls to be validate

Return value

Integer. Returns 1 if there are no validation errors and -1 if a validation error occurs.

Usage

The of_Validation and of_UpdateChecks functions call this event to determine if there are validation errors.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

Resize event (w_master)

{button Object,JI(`>main',`caiechcd')}

Description

Triggers automatic resize processing, if enabled in n_cst_resize.

Usage

This event executes when the user resizes the window.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

w_master

{button Events,JI(`>list_win',`id_pfcoref_43')} {button Instance variables,JI(`>list_win',`id_pfcoref_42')}

of_AcceptText function

of_GetCloseStatus function
of_GetDWType function
of_GetInfo function
of_GetSaveStatus function
of_GetUpdateObjects function
of_IsAlwaysValidate function
of_IsUpdateable function
of_MessageBox function
of_PostUpdate function
of_SetAlwaysValidate function
of_SetBase function
of_SetDBErrorMsg function
of_SetLogicalUnitOfWork function
of_SetPreference function
of_SetResize function
of_SetUpdateable function
of_SetUpdateObjects function
of_SetUpdateRequestor function
of_Update function
of_UpdateChecks function
of_UpdatePrep function
of_UpdatesPending function
of_Validation function

W_master includes precoded object functions:

of_AcceptText
of_GetCloseStatus
of_GetDWType
of_GetInfo
of_GetSaveStatus
of_GetUpdateObjects
of_IsAlwaysValidate
of_IsUpdateable
of_MessageBox
of_PostUpdate
of_SetAlwaysValidate
of_SetBase
of_SetDBErrorMsg
of_SetLogicalUnitOfWork
of_SetPreference
of_SetResize
of_SetUpdateable
of_SetUpdateObjects
of_SetUpdateRequestor
of_Update
of_UpdateChecks
of_UpdatePrep
of_UpdatesPending
of_Validation

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_AcceptText function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_101')}

Description

Calls the pfc_AcceptText event.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of w_master
focusonerror	Boolean indicating whether PFC sets focus to the first item in error when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_AcceptText function (w_master)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetCloseStatus function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_103')}
```

Description

Reports the window's close status (whether the window is closing.)

Access

Public

Syntax

windowname.**of_GetCloseStatus** ( )

Argument	Description
windowname	Instance name of w_master

Return value

Boolean. Returns TRUE if the window is closing and FALSE if it is not.

Usage

PFC does not report validation errors if the window is closing.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetCloseStatus function (w_master)

This example calls the of_GetCloseStatus function:

```
IF al_row <> 0 AND &

  (Not lw_parent. of_GetCloseStatus ( )) THEN
  IF IsValid(gnv_app) THEN
    MessageBox(gnv_app.iapp_object.Appname, &
      "Required Value Missing for " &
        + as_colname + " on row " + &
        String(al_row) + &
        ". Please enter a value.", StopSign!)
  ELSE
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_GetDWType function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_105')}
```

Description

Indicates whether a DataWindow is a descendant of u_dw and whether it uses the linkage service.

Access

Protected

Syntax

instancename.**of_GetDWType** (*datawindow*)

Argument	Description
instancename	Instance name of w_master
datawindow	DataWindow variable containing the DataWindow to be tested

Return value

Integer. Returns values as follows:

- 0 *Datawindow* is not a descendant of u_dw
- 1 *Datawindow* is a descendant of u_dw
- 2 *Datawindow* is a descendant of u_dw and it is linked
- -1 An error occurred

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_GetDWType function (w_master)

This example calls the of_GetDWType function:

```
...

li_dwtype = of_GetDWType (ldw_dw)
If li_dwtype < 0 Then Return -1
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetInfo function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_107')}
```

Description

Retrieves object information.

Access

Public

Syntax

instancename.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of w_master
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetInfo function (w_master)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


w_emplist.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetSaveStatus function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_109')}
```

Description

Reports the window's save status (whether the window is in the process of updating its DataWindows).

Access

Public

Syntax

windowname.**of_GetSaveStatus** ( )

Argument	Description
windowname	Instance name of w_master

Return value

Boolean. Returns TRUE if the window is updating and FALSE if it is not.

Usage

Call this function to determine whether a window is updating its DataWindows.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_GetSaveStatus function (w_master)

This example calls the of_GetSaveStatus function:

```
...

IF lw_parent.TriggerEvent &
  ("pfc_Descendant") = 1 THEN
    lb_pfcsaveprocess = &
      lw_parent.of_GetSaveStatus()
END IF
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetUpdateObjects function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_111')}
```

Description

Retrieves the current default array of objects affected by the update process.

Access

Protected

Syntax

instancename.**of_GetUpdateObjects** (*objects*)

Argument	Description
instancename	Instance name of w_master
objects	PowerObject array into which the function places objects to be updated (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetUpdateObjects function (w_master)

This example calls the of_GetUpdateObjects function:

```
PowerObject  lpo_objs[ ]

Integer  li_return, li_count

li_return = this.of_GetUpdateObjects(lpo_objs)
FOR li_count = 1 to li_return
        IF lpo_objs[li_count] = ids_data THEN
       Return 1
        END IF
NEXT
li_return++
lpo_objs[li_return] = ids_data
Return this.of_SetUpdateObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_IsAlwaysValidate function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_113')}
```

Description

Reports whether the default save process always performs validation.

Access

Protected

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Boolean. Returns TRUE if the default save process always performs validation and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_IsAlwaysValidate function (w_master)

This example calls the of_IsAlwaysValidate function:

```
IF this.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("Window", "Always validate")
ELSE
   MessageBox("Window", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_IsUpdateable function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_115')}
```

Description

Reports whether the window is updatable and should be included in save processing.

Access

Protected

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Boolean. Returns TRUE if the window is updatable and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_IsUpdateable function (w_master)

This example is from the pfc_UpdatesPendingRef event:

```
...

If Not of_IsUpdateable() Then Return NO_UPDATESPENDING
...
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_MessageBox function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_117')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of w_master
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in windows.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_MessageBox function (w_master)

This example calls the of_MessageBox function:

```
of_Messagebox('win_error','Save', &
```

```
as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_PostUpdate function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_119')}

Description

Calls the pfc_PostUpdate event.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_PostUpdate function (w_master)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetAlwaysValidate function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_121')}

Description

Specifies whether the default save process always performs validation.

Access

Protected

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean specifying whether the default save process always perform validation (TRUE) or only performs validation if a control has pending updates (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetAlwaysValidate function (w_master)

This example calls the of_SetAlwaysValidate function:

```
this.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetBase function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_123')}

Description

Enables or disables n_cst_winsrv, which provides basic window services.

Access

Public

Syntax

instancename.**of_SetBase** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_winsrv object

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_winsrv. This instance is named inv_base.

Because all window services are descendants of n_cst_winsrv (and have n_cst_winsrv functions available to them), use this object when you require basic window services only.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetBase function (w_master)

This example calls the of_SetBase function in a window Open event to enable basic window services:

```
this.of_SetBase (TRUE)
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_SetDBErrorMsg function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_125')}

Description

Saves a database update error message for display after save processing completes.

Access

Public

Syntax

windowname.**of_SetDBErrorMsg** (*message*)

Argument	Description
windowname	Instance name of w_master
message	String or n_cst_dberrorattrib containing the error message

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to save a database error message for display after ROLLBACK processing completes.

The u_dw DBError event populates this instance variable, suppressing the display of a message dialog box. This allows you to roll back changes in the pfc_EndTran event. After calling pfc_EndTran, the pfc_Save process displays this message.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_SetDBErrorMsg function (w_master)

This example is from the u_dw DBError event:

```
...

If IsValid(lpo_updaterequestor) Then
  lpo_updaterequestor.Dynamic Function  &
    of_SetDBErrorMsg(lnv_dberrorattrib)Else
...
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetLogicalUnitOfWork function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_127')}
```

Description

Enables or disables n_cst_luw, which provides the logical unit of work service.

Access

Public

Syntax

instancename.**of_SetLogicalUnitOfWork** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_luw

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_luw. This instance is named inv_luw. If you do not enable n_cst_luw, w_master enables it automatically.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_SetLogicalUnitOfWork function (w_master)

This example calls the of_SetLogicalUnitOfWork function:

```
this.of_SetLogicalUnitOfWork(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetPreference function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_129')}

Description

Enables or disables n_cst_winsrv_preference, the window preference service.

Access

Public

Syntax

instancename.**of_SetPreference** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_winsrv_preference object

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_winsrv_preference. This instance is named inv_preference.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetPreference function (w_master)

This example calls the of_SetPreference function:

```
this.of_SetPreference(TRUE)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_SetResize function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_131')}

Description

Enables or disables n_cst_resize, the resize service.

Access

Public

Syntax

instancename.**of_SetResize** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_resize object

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_resize. This instance is named inv_resize.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetResize function (w_master)

This example calls the of_SetResize function:

```
this.of_SetResize(TRUE)
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetUpdateable function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_133')}

Description

Specifies whether the window is updatable and should be included in a default save process.

Access

Protected

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of w_master
boolean	Boolean indicating whether the window is updatable

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to disable default save processing for windows that are not updatable.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetUpdateable function (w_master)

This example calls the of_SetUpdateable function:

```
this.of_SetUpdateable(FALSE)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetUpdateObjects function (w_master)

{button Object,JI(`>main',`caiechcd')} {button Examples,JI(`>Examples',`id_pfcoref_135')}

Description

Sets a new default array containing objects for which updates are attempted.

Access

Protected

Syntax

instancename.**of_SetUpdateObjects** (*requestor*)

Argument	Description
instancename	Instance name of u_dw
requestor	PowerObject array containing the object to be updated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to customize the objects updated by the save process. You can even add other windows to the save process.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetUpdateObjects function (w_master)

This example calls the of_SetUpdateObjects function:

```
PowerObject  lpo_objs[ ]

Integer  li_count

lpo_objs = this.control
li_count = UpperBound(lpo_objs)
li_count++
// Update w_other as well as this window
lpo_objs[li_count] = w_other
Return this.of_SetUpdateObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetUpdateRequestor function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_137')}
```

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Protected

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of w_master
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetUpdateRequestor function (w_master)

This example is from the of_SetLogicalUnitOfWork function:

```
...

inv_luw = create n_cst_luw
inv_luw.of_SetRequestor (this)
inv_luw.of_SetUpdateRequestor (this)
...
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_Update function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_139')}
```

Description

Calls the pfc_UpdateObjects event.

Access

Public

Syntax

instancename.**of_Update** (*accept*, *resetflag* {, *requestor* })

Argument	Description
instancename	Instance name of w_master
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags
requestor (optional)	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the update succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

You typically call the pfc_Save event instead of this function.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_Update function (w_master)

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_UpdateChecks function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_141')}
```

Description

Determines whether edits are pending and whether there are any validation errors.

Access

Protected

Syntax

instancename.**of_UpdateChecks** ({ *controls* })

Argument	Description
instancename	Instance name of w_master
controls (optional)	PowerObject array containing the objects to be checked

Return value

Integer. Returns values as follows:

- **1** Updates are pending and there are no validation errors
- **0** No updates pending
- **-1** AcceptText error
- **-2** UpdatesPending error
- **-3** Validation error

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_UpdateChecks function (w_master)

This example is from the pfc_Save event:

```
...

li_rc = of_UpdateChecks(lpo_updatearray)        If li_rc <= 0 Then
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_UpdatePrep function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_143')}
```

Description

Calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_UpdatePrep function (w_master)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep()
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_UpdatesPending function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_145')}
```

Description

Calls the pfc_UpdatesPendingRef event.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_UpdatesPending function (w_master)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
        la_rc = lpo_tocheck.Dynamic of_UpdatesPending()
...
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_Validation function (w_master)

```
{button Object,JI(`>main',`caiechcd')} {button
Examples,JI(`>Examples',`id_pfcoref_147')}
```

Description

Calls the pfc_Validation event.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of w_master

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_Validation function (w_master)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

w_popup

{button Ancestor,JI(`>main',`caiechcd')} {button See also,PI(`',`id_pfcoref_149')}

Description

Ancestor for all PowerBuilder Foundation Class Library popup windows.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use w_popup as the ancestor window for all popup windows.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

w_popup

w_master

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

w_response

{button See also,PI(`',`id_pfcoref_151')} {button Events,JI(`>list_win',`id_pfcoref_152')}

Description

Ancestor for all PFC response windows.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use w_response as the ancestor window for all response windows.

Add OK, Cancel, and window-specific CommandButtons to your w_response descendant. Then add code to the CommandButtons' Clicked events to trigger the appropriate w_response user event. Typically, Cancel triggers pfc_Cancel, Apply triggers pfc_Apply, and OK triggers pfc_Default.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

w_response

w_master

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

w_response

pfc_Apply event

pfc_Cancel event

pfc_Default event

W_response includes predefined events:

pfc_Apply
pfc_Cancel
pfc_Default

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

pfc_Apply event (w_response)

{button Object,JI(`>main',`caidhhjg')} {button Examples,JI(`>Examples',`id_pfcoref_154')}

Description

Empty user event to which you add code that applies dialog box specifications to the associated sheet or window.

Usage

Add code to this event to apply specifications to the associated sheet or window. Trigger this user event from a cb_apply.Clicked event script.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_Apply event (w_response)

This example shows code you might add to pfc_Apply:

```
Integer  li_cnt, li_arraysize, li_rc

Boolean  lb
ToolbarAlignment  lt
String  ls

// Set toolbar settings
li_arraysize = UpperBound(istr_toolbar[])
```

```
FOR li_cnt = 1 to li_arraysize
  istr_toolbar[li_cnt].w_owner.SetToolbar &
    (istr_toolbar[li_cnt].i_barindex, &
    istr_toolbar[li_cnt].b_visible, &
    istr_toolbar[li_cnt].e_alignment, &
    istr_toolbar[li_cnt].s_title)
  istr_toolbar[li_cnt].w_owner.GetToolbar &
    (istr_toolbar[li_cnt].i_barindex, lb, lt, ls)
NEXT
// Set application toolbar settings
iapp_object.ToolbarText = cbx_text.checked
iapp_object.ToolbarTips = cbx_tips.checked
// Disable Apply button. Make OK the default
cb_apply.Enabled = False
cb_apply.Default = False
cb_cancel.Default = False
cb_ok.Default = True
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

pfc_Cancel event (w_response)

```
{button Object,JI(`>main',`caidhhjg')} {button
Examples,JI(`>Examples',`id_pfcoref_156')}
```

Description

Empty user event to which you add code that closes the window without accepting changes.

Usage

Add code to this user event to close the window without accepting changes. Trigger this user event from the cb_cancel.Clicked event script.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

pfc_Cancel event (w_response)

This example closes the window and passes a return value of 0:

```
CloseWithReturn(This, 0)
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

pfc_Default event (w_response)

{button Object,JI(`>main',`caidhhjg')} {button Examples,JI(`>Examples',`id_pfcoref_158')}

Description

Event to apply changes and close a response window.

Usage

Add code to this event to apply changes and close a response window. It is meant to be triggered by the default CommandButton (typically cb_ok), but it could be triggered by Cancel, Close, or some other CommandButton.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

pfc_Default event (w_response)

This example shows code you might add to the pfc_Default:

```
SetPointer(HourGlass!)


SQLCA.dbms = "ODBC"
SQLCA.database = "expense"
SQLCA.logid = sle_userid.text
SQLCA.logpass = sle_password.text
SQLCA.dbparm = "Connectstring='DSN=" + &
SQLCA.database + ";UID=" + &
SQLCA.logid + ";PWD=" + SQLCA.logpass + "'"
IF SQLCA.of_Connect() <> 0 THEN
  MessageBox("Login Error", SQLCA.SQLErrText)
  CloseWithReturn(This, 0)
ELSE
  CloseWithReturn(This, 1)
END IF
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

w_sheet

```
{button Ancestor,JI(`>main',`caiechcd')} {button See also,PI(`',`id_pfcoref_160')}
{button Events,JI(`>list_win',`id_pfcoref_161')}
```

Description

Ancestor for all PowerBuilder Foundation Class Library sheet windows.

This window contains automatic MicroHelp display capability.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

n_cst_string

Usage

Use this window as the ancestor for all of your application's sheet windows.

If you want to display MicroHelp for controls within a sheet, associate the MicroHelp text with each control's tag value. The control's tag value must specify MICROHELP=*microhelptext*. When the control gets focus, the pfc_ControlGotFocus event displays the tag text in the status bar.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

w_sheet

w_frame

w_master

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

w_sheet

Activate event

pfc_ControlGotFocus event

pfc_MicroHelp event

W_sheet includes predefined events:

Activate

pfc_MicroHelp

pfc_ControlGotFocus

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

Activate event (w_sheet)

{button Object,JI(`>main',`caibaacc')}

Description

Sets MicroHelp to the control with focus.

Usage

This event executes whenever the window receives focus.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

pfc_ControlGotFocus event (w_sheet)

{button Object,JI(`>main',`caibaacc')}

Description

Displays the MicroHelp stored in the control's tag value.

This event extends the ancestor pfc_ControlGotFocus event.

Syntax

instancename.EVENT **pfc_ControlGotFocus** (*control*)

Argument	Description
instancename	Instance name of w_sheet-based descendant
control	DragObject variable containing the control that just got focus

Usage

This event is called by PFC visual controls when they get focus.

The control's tag value must specify MICROHELP=*microhelptext*.

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

pfc_MicroHelp event (w_sheet)

{button Object,JI(`>main',`caibaacc')}

Description

Updates MicroHelp by calling the frame's pfc_MicroHelp event.

This event extends the ancestor pfc_MicroHelp event.

Syntax

instancename.EVENT **pfc_MicroHelp** (*microhelp*)

Argument	Description
instancename	Instance name of w_sheet-based descendant
microhelp	String to be displayed in the status bar

Usage

This event executes whenever the sheet or a control on the sheet receives focus.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

Menus

About this chapter

This chapter describes the menus in the PowerBuilder Foundation Class Library (PFC).

Contents

The menus are listed in alphabetical order. The information for each menu includes an alphabetical listing of instance variables, events, and menu functions.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

m_dw

{button See also,PI(`',`id_pfcoref_167')} {button Functions,JI(`>list_win',`id_pfcoref_169')} {button Instance variables,JI(`>list_win',`id_pfcoref_168')}

Description

Popup menu displayed when the user releases the right mouse button over a u_dw based DataWindow control.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Menu bar items

M_dw is a popup menu and has a single menu bar item:

Table

Table menu

Menu item	Description
Cut	Calls the pfc_Cut event
Copy	Calls the pfc_Copy
Paste	Calls the pfc_Paste event
Select All	Calls the pfc_SelectAll event
Insert	Calls the pfc_InsertRow event
Add	Calls the pfc_AddRow event
Delete	Calls the pfc_DeleteRow event
Restore	Calls the pfc_RestoreRow event
Columns	Calls the pfc_Columns event
Functions	Calls the pfc_Functions event
Operators	Calls the pfc_Operators event
Values	Calls the pfc_Values event
DataWindow Properties	Calls the pfc_Debug event
Properties	Empty menu item. Add calls to functions or events that display properties for a DataWindow column

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

m_dw

u_dw

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

m_dw

{button Functions,JI(`>list_win',`id_pfcoref_169')}

M_dw includes one instance variable:

Instance variable	Description	Data type	Access	Usage
idw_parent	Owning DataWindow control.	DataWindow	Protected	Used to access the current DataWindow control

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

m_dw

{button Instance variables,JI(`>list_win',`id_pfcoref_168')}

of_SetParent function

M_dw includes one precoded object function:

of_SetParent

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetParent function (m_dw)

{button Object,JI(`>main',`bfcdjaad')} {button Examples,JI(`>Examples',`id_pfcoref_171')}

Description

Establishes the current DataWindow control.

Access

Public

Syntax

instancename.**of_SetParent** (*currentdw*)

Argument	Description
instancename	Instance name of m_dw
currentdw	DataWindow variable identifying the DataWindow that opened this instance of m_dw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_dw calls this function to establish a relationship with m_dw.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetParent function (m_dw)

This example is from the u_dw RButtonUp event:

```
...

lm_dw = create m_dw
lm_dw.of_SetParent(this)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

m_edit

```
{button See also,PI(`',`id_pfcoref_173')} {button
Functions,JI(`>list_win',`id_pfcoref_175')} {button Instance
variables,JI(`>list_win',`id_pfcoref_174')}
```

Description

Popup menu displayed when the user releases the right mouse button over certain PFC visual controls.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Menu bar items

M_edit is a popup menu and has a single menu bar item:

Edit

Edit menu

Menu item	Description
Cut	Calls the pfc_Cut event for the current window or window control
Copy	Calls the pfc_Copy event for the current window or window control
Paste	Calls the pfc_Paste event for the current window or window control
Select All	Calls the pfc_SelectAll event for the current window or window control

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

m_edit

u_mle

u_rte

u_sle

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

m_edit

{button Functions,JI(`>list_win',`id_pfcoref_175')}

M_edit includes one instance variable:

Instance variable	Description	Data type	Access	Usage
idrg_current	Current window or window	DragObject	Protected	Used to access the current

control control

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

m_edit

{button Instance variables,JI(`>list_win',`id_pfcoref_174')}

of_SetParent function

M_edit includes one precoded object function:

of_SetParent

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetParent function (m_edit)

{button Object,JI(`>main',`bfcbccea')} {button Examples,JI(`>Examples',`id_pfcoref_177')}

Description

Establishes the current control.

Access

Public

Syntax

instancename.**of_SetParent** (*currentcontrol*)

Argument	Description
instancename	Instance name of m_edit
currentcontrol	DragObject containing the control that opened this instance of m_edit

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC visual objects call this function to establish a relationship with m_edit.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SetParent function (m_edit)

This example is from the u_rte RButtonUp event:

```
Integer     li_rc

m_edit      lm_edit
Window      lw_parent
String      ls_selectedtext
...
lm_edit = create m_edit
lm_edit.of_SetParent(this)
...
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

m_frame

{button Ancestor,JI(`>main',`bfcdcgij')} {button See also,PI(`',`id_pfcoref_179')}

Description

The m_frame menu is a descendant of m_master with most items disabled and hidden. Use this menu as the frame menu for your application, modifying and adding menu items as necessary.

Ancestry

Library

PFEWNSRV.PBL

Menu bar items

The m_frame menu has the following visible menu bar items:

File

Help

File menu

Menu item	Description
New	Calls the pfc_New event for the frame window
Open	Calls the pfc_Open event for the frame window
Exit	Calls the pfc_Exit event for the frame window

Help menu

Menu item	Description
Help Topics	Calls the pfc_Help event for the frame window
About	Calls the n_cst_appmanager of_About function

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

m_frame

m_master

w_frame

Created with the Personal Edition of HelpNDoc: Free help authoring environment

m_lvs

{button See also,PI(`',`id_pfcoref_181')} {button Functions,JI(`>list_win',`id_pfcoref_183')} {button Instance variables,JI(`>list_win',`id_pfcoref_182')}

Description

Popup menu displayed when the user releases the right mouse button over a ListView based on u_lvs.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Menu bar items

M_lvs is a popup menu and has a single menu bar item:

View

View menu

Menu item	Description
View	Changes the ListView display style. Options are: • Large icon • Small icon • List • Report
Arrange Icons	Sorts the display by the specified column
Select All	Calls the pfc_SelectAll event
Invert Selection	Calls the pfc_InvertSelection event
Cut	Calls the pfc_Cut event
Copy	Calls the pfc_Copy event
Paste	Calls the pfc_Paste event
Clear	Calls the pfc_Clear event
New	Calls the pfc_New event
Delete	Calls the pfc_Delete event
Rename	Calls the pfc_Rename event
Properties	Calls the pfc_Properties event

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

m_lvs

u_lvs

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

m_lvs

{button Functions,JI(`>list_win',`id_pfcoref_183')}

M_lvs includes one instance variable:

Instance variable	Description	Data type	Access	Usage
ilv_parent	ListView control displaying the popup menu.	ListView	Protected	Used to access the associated ListView control

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

m_lvs

{button Instance variables,JI(`>list_win',`id_pfcoref_182')}

of_SetParent function

M_lvs includes one precoded object function:

of_SetParent

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetParent function (m_lvs)

{button Object,JI(`>main',`bfcbiajc')} {button Examples,JI(`>Examples',`id_pfcoref_185')}

Description

Establishes the ListView control associated with an instance of the m_lvs popup menu.

Access

Public

Syntax

instancename.**of_SetParent** (*listview*)

Argument	Description
instancename	Instance name of m_lvs
listview	ListView variable containing the ListView that opened this instance of m_lvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_lvs calls this function to establish a relationship with m_lvs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_SetParent function (m_lvs)

This example calls the of_SetParent function:

```
...

if IsNull(lm_view) Or not IsValid(lm_view) then
    lm_view = create m_lvs
    lm_view.of_SetParent(this)end if

...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

m_master

```
{button See also,PI(`',`id_pfcoref_187')} {button
Functions,JI(`>list_win',`id_pfcoref_188')}
```

Description

Master menu for all PFC applications. Use this menu as the ancestor for your application's menus.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Menu bar items

The m_master menu has the following menu bar items:

File

Edit

View

Insert

Tools

Window

Help

File menu

Menu item	Description
New	Calls the pfc_New event for the current window or window control

Open	Calls the pfc_Open event for the current window or window control
Close	Calls the pfc_Close event for the current window or window control
Save	Calls the pfc_Save event for the current window or window control
Save As	Calls the pfc_SaveAs event for the current window or window control
Print	Calls the pfc_Print event for the current window or window control
Print Preview	Calls the pfc_PrintPreview event for the current window or window control
Page Setup	Calls the pfc_PageSetup event for the current window or window control
Print Immediate	Calls the pfc_PrintImmediate event for the current window or window control
Delete	Empty menu item. Add calls to function or events that perform deletion
Properties	Empty menu item. Add calls to function or events that display properties
Exit	Calls the pfc_Exit event for the current window or window control
PFCMRU1 through PFCMRU5	Calls the pfc_MRUClicked event for the current window or window control

Edit menu

Menu item	Description
Undo	Calls the pfc_Undo event for the current window or window control
Cut	Calls the pfc_Cut event for the current window or window control
Copy	Calls the pfc_Copy event for the current window or window control
Paste	Calls the pfc_Paste event for the current window or window control
Paste Special	Calls the pfc_PasteSpecial event for the current window or window control
Clear	Calls the pfc_Clear event for the current window or window control
Select All	Calls the pfc_SelectAll event for the current window or window control
Find	Calls the pfc_FindDlg event for the current window or window control
Replace	Calls the pfc_ReplaceDlg event for the current window or window control
Update Links	Calls the pfc_UpdateLinks event for the current window or window control
Object>Edit	Calls the pfc_EditObject event for the current window or window control
Object>Open	Calls the pfc_OpenObject event for the current window or window control

View menu

Menu item	Description
Ruler	Calls the pfc_Ruler event for the current window or window control
Large Icon	Empty menu item. Add calls to function or events that change ListView display
Small Icon	Empty menu item. Add calls to function or events that change ListView display
List	Empty menu item. Add calls to function or events that change ListView display
Details	Empty menu item. Add calls to function or events that change ListView display
Arrange Icons>By	Empty menu item. Add calls to function or events that arrange icons
Arrange Icons>Auto Arrange	Empty menu item. Add calls to function or events that arrange icons
First	Calls the pfc_FirstPage event for the current window or window control
Next	Calls the pfc_NextPage event for the current window or window control
Prior	Calls the pfc_PreviousPage event for the current window or window control
Last	Calls the pfc_LastPage event for the current window or window control
Sort	Calls the pfc_SortDlg event for the current window or window control
Filter	Calls the pfc_FilterDlg event for the current window or window control
Zoom	Calls the pfc_Zoom event for the current window or window control

Insert menu

Menu item	Description

File	Calls the pfc_InsertFile event for the current window or window control
Picture	Calls the pfc_InsertPicture event for the current window or window control
Object	Calls the pfc_InsertObject event for the current window or window control

Tools menu

Menu item	Description
Customize Toolbars	Calls the pfc_Toolbars event for the current window or window control

Window menu

Menu item	Description
Cascade	Calls the pfc_Cascade event for the frame window
Tile Horizontal	Calls the pfc_TileHorizontal event for the frame window
Tile Vertical	Calls the pfc_TileVertical event for the frame window
Layer	Calls the pfc_Layer event for the frame window
Minimize All	Calls the pfc_MinimizeAll event for the frame window
Undo Arrange	Calls the pfc_UndoArrange event for the frame window

Help menu

Menu item	Description
Help Topics	Calls the pfc_Help event for the current window or window control
About	Calls the n_cst_appmanager of_About function

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

m_master

m_frame

w_frame

w_master

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

m_master

of_SendMessage function

The m_master menu includes one precoded object function:

of_SendMessage

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_SendMessage function (m_master)

{button Object,JI(`>main',`bfcdcgij')} {button Examples,JI(`>Examples',`id_pfcoref_190')}

Description

Calls the n_cst_menu of_SendMessage function, which sends the passed message to the current window through the pfc_MessageRouter event.

Access

Public

Syntax

instancename.**of_SendMessage** (*message*)

Argument	Description
instancename	Instance name of m_master
message	String specifying the user event to be triggered by the pfc_MessageRouter event

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC menu items call this function to trigger events on the associated window and window controls.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SendMessage function (m_master)

This example is from the m_master File>Open menu item's Clicked event.

```
SetPointer (hourglass!)

of_SendMessage("pfc_open")
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

m_oc

```
{button See also,PI(`',`id_pfcoref_192')} {button
Functions,JI(`>list_win',`id_pfcoref_194')} {button Instance
variables,JI(`>list_win',`id_pfcoref_193')}
```

Description

Popup menu displayed when the user releases the right mouse button over an OLE control based on u_oc.

Ancestry

pfc_m_oc
m_oc
Object functions
Public of_SetParent

Library

PFCMAIN.PBL

PFEMAIN.PBL

Menu bar items

M_oc is a popup menu and has a single menu bar item:

Object

Object menu

Menu item	Description
Edit	Calls the pfc_EditObject event for the OLE control
Open	Calls the pfc_OpenObject event for the OLE control
Cut	Calls the pfc_Cut event for the OLE control
Copy	Calls the pfc_Copy event for the OLE control
Paste	Calls the pfc_Paste event for the OLE control

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

m_oc

u_oc

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

m_oc

{button Functions,JI(`>list_win',`id_pfcoref_194')}

M_oc includes one instance variable:

Instance variable	Description	Data type	Access	Usage
ioc_parent	OLE control displaying the popup menu.	OLEControl	Protected	Used to access the associated OLE control.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

m_oc

{button Instance variables,JI(`>list_win',`id_pfcoref_193')}

of_SetParent function

M_oc includes one precoded object function:

of_SetParent

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_SetParent function (m_oc)

{button Object,JI(`>main',`bfccedde')} {button Examples,JI(`>Examples',`id_pfcoref_196')}

Description

Establishes the OLE control associated with an instance of the m_oc popup menu.

Access

Public

Syntax

instancename.**of_SetParent** (*olecontrol*)

Argument	Description
instancename	Instance name of m_oc
olecontrol	OLEControl variable containing the OLE control that opened this instance of m_oc

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_oc calls this function to establish a relationship with m_oc.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SetParent function (m_oc)

This example calls the of_SetParent function:

```
m_oc      lm_oc

String    ls_selectedtext
...
lm_view = create m_oc
lm_view.of_SetParent(this)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

m_tvs

```
{button See also,PI(`',`id_pfcoref_198')} {button
Functions,JI(`>list_win',`id_pfcoref_200')} {button Instance
variables,JI(`>list_win',`id_pfcoref_199')}
```

Description

Popup menu displayed when the user releases the right mouse button over a TreeView based on u_tvs.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Menu bar items

M_tvs is a popup menu and has a single menu bar item:

View

View menu

Menu item	Description
Open	Calls the pfc_Open event
Find	Calls the pfc_FindDlg event
Cut	Calls the pfc_Cut event
Copy	Calls the pfc_Copy event
Paste	Calls the pfc_Paste event
Clear	Calls the pfc_Clear event
New	Calls the pfc_New event
Delete	Calls the pfc_Delete event
Rename	Calls the pfc_Rename event
Properties	Calls the pfc_Properties event

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

m_tvs

u_tvs

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

m_tvs

{button Functions,JI(`>list_win',`id_pfcoref_200')}

M_tvs includes one instance variable:

Instance variable	Description	Data type	Access	Usage
itv_parent	TreeView control displaying the popup menu.	TreeView	Protected	Used to access the associated TreeView control

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

m_tvs

{button Instance variables,JI(`>list_win',`id_pfcoref_199')}

of_SetParent function

M_tvs includes one precoded object function:

of_SetParent

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetParent function (m_tvs)

{button Object,JI(`>main',`bfccbdfe')} {button Examples,JI(`>Examples',`id_pfcoref_202')}

Description

Establishes the TreeView control associated with an instance of the m_tvs popup menu.

Access

Public

Syntax

instancename.**of_SetParent** (*listview*)

Argument	Description
instancename	Instance name of m_tvs
listview	TreeView variable containing the TreeView that opened this instance of m_tvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_tvs calls this function to establish a relationship with m_tvs.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_SetParent function (m_tvs)

This example calls the of_SetParent function:

```
...

im_view = CREATE m_tvs
im_view.of_SetParent(this)
...
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

Global Functions

About this chapter

This chapter describes the global functions in the PowerBuilder Foundation Class Library (PFC).

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

f_SetFilesrv PowerScript function (m_tvs)

{button Examples,JI(`>Examples',`id_pfcoref_205')} {button See also,PI(`',`id_pfcoref_206')}

Description

Enables or disables the platform-specific file-handling service. The file service is implemented through the n_cst_filesrv user object and its descendants.

This function creates a descendant of n_cst_filesrv:

- n_cst_filesrvwin32

Access

Public

Syntax

f_SetFilesrv (*fileservice*, *boolean*)

Argument	Description
fileservice	N_cst_filesrv variable into which the function creates the platform-specific n_cst_filesrv descendant
boolean	Boolean specifying whether to create an instance of n_cst_filesrv (TRUE) or destroy an instance of n_cst_filesrv (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable and disable the file service.

These objects contain functions that make external function calls to perform operating system-specific file processing.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

f_SetFilesrv PowerScript function (m_tvs)

This example enables the file service. It assumes an inv_filesrv instance variable:

```
f_SetFileSrv(inv_filesrv, TRUE)
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

f_SetFilesrv PowerScript function (m_tvs)

f_SetPlatform

n_cst_filesrv

n_cst_platform

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

f_SetPlatform PowerScript function (m_tvs)

{button Examples,JI(`>Examples',`id_pfcoref_208')} {button See also,PI(`',`id_pfcoref_209')}

Description

Enables or disables platform-specific services. The platform service is implemented through the n_cst_platform user object and its descendants.

This function creates a descendant of n_cst_platform:

- n_cst_platformwin32

Access

Public

Syntax

f_SetPlatform (*platformservice*, *boolean*)

Argument	Description
platformservice	N_cst_platform variable into which the function creates the platform-specific n_cst_platform descendant
boolean	Boolean specifying whether to create an instance of n_cst_platform (TRUE) or destroy an instance of n_cst_platform (FALSE).

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable and disable the platform service.

These objects contain functions that make external function calls to return operating system-specific information and play sounds.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

f_SetPlatform PowerScript function (m_tvs)

This example enables the platform service. It assumes an inv_platform instance variable:

```
f_SetPlatform(inv_platform, TRUE)
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

f_SetPlatform PowerScript function (m_tvs)

f_SetFilesrv

n_cst_filesrv

n_cst_platform

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

Global Structures and Structure Objects

About this chapter

This chapter describes the global structures and structure objects in the PowerBuilder Foundation Class Library (PFC).

Structure objects are autoinstantiated custom class user objects that consist solely of instance variables. These objects provide all the functionality of global structures and they also allow you to extend them by adding instance variables, events, and object functions.

Contents

The global structures and structure objects are listed alphabetically.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

n_cst_aboutattrib

{button See also,PI(`',`id_pfcoref_212')}

Description

Structure object containing information displayed in w_about.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
is_application	String
is_copyright	String
is_logo	String
is_version	String

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_cst_aboutattrib

n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

n_cst_baseattrib

{button See also,PI(`',`id_pfcoref_214')}

Description

Ancestor of all structure objects. This object contains no properties. To define a global property or function for structure objects, define it in this object.

Library

PFCMAIN.PBL

PFEMAIN.PBL

Properties

No properties

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

n_cst_baseattrib

All other structure objects

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

n_cst_calculatorattrib

{button See also,PI(`',`id_pfcoref_216')}

Description

Structure object containing information used by u_calculator.

Library

PFCMAIN.PBL

PFEMAIN.PBL

Properties

Field	Data type
ib_dropdown	Boolean

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

n_cst_calculatorattrib

u_calculator

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

n_cst_calendarattrib

{button See also,PI(`',`id_pfcoref_218')}

Description

Structure object containing information used by u_calendar.

Library

PFCMAIN.PBL

PFEMAIN.PBL

Properties

Field	Data type
ib_dropdown	Boolean

Created with the Personal Edition of HelpNDoc: Free EPub producer

n_cst_calendarattrib

u_calendar

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

n_cst_columnattrib

{button See also,PI(`',`id_pfcoref_220')}

Description

Structure object containing column information.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
is_colformat	String
is_coltype	String
is_columns	String

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

n_cst_columnattrib

n_cst_lvsrv_datasource

n_cst_lvsrv_sort

Created with the Personal Edition of HelpNDoc: Easily create EPub books

n_cst_dberrorattrib

{button See also,PI(`',`id_pfcoref_222')}

Description

Structure object containing database error information.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
idwb_buffer	DWBuffer
il_row	Long
il_sqldbcode	Long
ipo_inerror	PowerObject
is_errormsg	String
is_sqlerrtext	String
is_sqlsyntax	String

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

n_cst_dberrorattrib

n_cst_luw

w_master

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_cst_dirattrib

{button See also,PI(`',`id_pfcoref_224')}

Description

Structure object containing information used in n_cst_filesrv and its descendants.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ib_archive	Boolean
ib_drive	Boolean
ib_hidden	Boolean
ib_readonly	Boolean

ib_subdirectory	Boolean
ib_system	Boolean
id_creationdate	Date
id_lastaccessdate	Date
id_lastwritedate	Date
idb_filesize	Date
is_altfilename	String
is_filename	String
it_creationtime	Time
it_lastwritetime	Time

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_cst_dirattrib

n_cst_filesrv

n_cst_filesrvwin32

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

n_cst_dssrv_multitableattrib

{button See also,PI(`',`id_pfcoref_226')}

Description

Structure object containing information used to control multitable updates.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
b_keyupdateinplace	Boolean
i_whereoption	Integer
s_keycolumns[ ]	String
s_updatecolumns[ ]	String
s_updatetable	String

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

n_cst_dssrv_multitableattrib

n_cst_dssrv_multitable

n_cst_dwsrv_multitable

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

n_cst_dwcacheattrib

{button See also,PI(`',`id_pfcoref_228')}

Description

Structure object containing information about cached data.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
a_args[]	Any
ds_originalcontrol	DataStore
dw_originalcontrol	DataWindow
ds_obj	N_ds
tr_obj	N_tr
po_originaldata[]	PowerObject
s_id	String
s_filename	String
s_method	String
s_originaldataobject	String

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

n_cst_dwcacheattrib

n_cst_dwcache

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

n_cst_dwobjectattrib

{button See also,PI(`',`id_pfcoref_230')}

Description

Structure object containing information used in n_cst_dwcache, n_cst_dssrv, n_cst_dwsrv, and its descendants.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
is_column	String
is_datatype	String
is_value	String

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_dwobjectattrib

n_cst_dwcache

n_cst_dssrv

n_cst_dwsrv

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

n_cst_dwpropertyattrib

{button See also,PI(`',`id_pfcoref_232')}

Description

Structure object containing DataWindow property information.

Library

PFCUTIL.PBL

PFEUTIL.PBL

Properties

Field	Data type
idw_requestor	DataWindow
is_dataobjectbuffer	String
is_dataobjectstatus	String
is_objectname	String
is_tabpages	String
iw_mail	Window

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

n_cst_dwpropertyattrib

w_dwproperty

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

n_cst_dwsrv_dropdownsearchattrib

{button See also,PI(`',`id_pfcoref_234')}

Description

Structure object containing column and text information for dropdown DataWindows.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
dwc_object	DataWindowChild
s_columnname	String
s_editstyle	String

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

n_cst_dwsrv_dropdownsearchattrib

n_cst_dwsrv_dropdownsearch

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

n_cst_dwsrv_multitableattrib

{button See also,PI(`',`id_pfcoref_236')}

Description

Structure object containing information used to control multitable updates.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
b_keyupdateinplace	Boolean
i_whereoption	Integer
s_keycolumns[ ]	String
s_updatecolumns[ ]	String
s_updatetable	String

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

n_cst_dwsrv_multitableattrib

n_cst_dwsrv_multitable

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

n_cst_dwsrv_querymodeattrib

{button See also,PI(`',`id_pfcoref_238')}

Description

Structure object storing querymode information for DataWindow columns.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
b_state	Boolean
s_col	String
s_protect	String

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

n_cst_dwsrv_querymodeattrib

n_cst_dwsrv_querymode

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

n_cst_dwsrv_resizeattrib

{button See also,PI(`',`id_pfcoref_240')}

Description

Structure object containing information about registered columns and text objects.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
b_scale	Boolean
b_movex	Boolean
b_movey	Boolean
b_scalewidth	Boolean
b_scaleheight	Boolean
i_movex	Integer
i_movex	Integer
i_scalewidth	Integer
i_scaleheight	Integer
r_x	Real
r_y	Real
r_width	Real
r_height	Real

s_control	String
s_typeof	String

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

n_cst_dwsrv_resizeattrib

n_cst_dwsrv_resize

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

n_cst_errorattrib

{button See also,PI(`',`id_pfcoref_242')}

Description

Structure object containing information used in n_cst_error and w_message.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ib_print	Boolean
ib_userinput	Boolean
idt_date	Datetime
ie_buttonstyle	Button
ie_icon	Icon
ii_buttonclicked	Integer
ii_default	Integer
ii_rc	Integer
ii_severity	Integer
ii_timeout	Integer
is_text	String
is_title	String
is_user	String
is_usertext	String

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

n_cst_errorattrib

n_cst_error

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_filterattrib

{button See also,PI(`',`id_pfcoref_244')}

Description

Structure object containing information used in n_cst_dwsrv_filter and Filter dialog boxes.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
idw_dw	u_dw
is_colnamedisplay[ ]	String
is_columns[ ]	String
is_dbnames[ ]	String
is_filter	String

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_cst_filterattrib

n_cst_dwsrv_filter

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

n_cst_findattrib

{button See also,PI(`',`id_pfcoref_246')}

Description

Structure object containing information used in n_cst_dwsrv_find, u_rte, w_find, and w_replace.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ib_directionenabled	Boolean
ib_directionvisible	Boolean
ib_lookenabled	Boolean
ib_lookvisible	Boolean
ib_matchcase	Boolean
ib_matchcaseenabled	Boolean
ib_matchcasevisible	Boolean
ib_wholeword	Boolean
ib_wholewordenabled	Boolean
ib_wholewordvisible	Boolean

ii_lookindex	Integer
ipo_requestor	PowerObject
is_direction	String
is_find	String
is_lookdata[]	String
is_lookdisplay[]	String
is_replacewith	String

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

n_cst_findattrib

n_cst_dwsrv_find

u_rte

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

n_cst_infoattrib

{button See also,PI(`',`id_pfcoref_248')}

Description

Structure object containing information displayed by the DataWindow Properties dialog box.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
is_description	String
is_name	String

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

n_cst_infoattrib

All objects that contain an of_GetInfo function.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

n_cst_itemattrib

{button See also,PI(`',`id_pfcoref_250')}

Description

Structure object containing information used in u_lb, u_plb, and u_tv.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_index	Integer
is_itemtext	String

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

n_cst_itemattrib

u_lb

u_plb

u_tvs

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

n_cst_linkageattrib

{button See also,PI(`',`id_pfcoref_252')}

Description

Structure object containing information used in n_cst_dwsrv_linkage.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
is_detailcolarg[ ]	String
is_mastercolarg[ ]	String

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_cst_linkageattrib

n_cst_dwsrv_linkage

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

n_cst_logonattrib

{button See also,PI(`',`id_pfcoref_254')}

Description

Structure object containing information used in n_cst_appmanager.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_rc	Integer
ipo_source	PowerObject
is_appname	String
is_logo	String
is_password	String
is_userid	String

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

n_cst_logonattrib

n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

n_cst_lvsrvattrib

{button See also,PI(`',`id_pfcoref_256')}

Description

Structure object containing information used by ListView services.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ids_source	n_ds
itr_obj	n_tr
is_dataobject	String
is_keycolumns[ ]	String
is_labelcolumn	String

is_method	String
is_overlaycolumn	String
is_picturecolumn	String
is_statecolumn	String
is_xposcolumn	String
is_yposcolumn	String

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

n_cst_lvsrvattrib

n_cst_lvsrv_datasource

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

n_cst_mruattrib

{button See also,PI(`',`id_pfcoref_258')}

Description

Structure object containing information used by n_cst_mru.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_itemcount	Integer
is_classname	String
is_id	String
is_menuitemkey	String
is_menuitemmhelp	String
is_menuitemname	String

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

n_cst_mruattrib

n_cst_mru

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_propertyattrib

{button See also,PI(`',`id_pfcoref_260')}

Description

Structure object containing information used by the DataWindow Properties dialog box.

Library

PFCUTIL.PBL

PFEUTIL.PBL

Properties

Field	Data type
ib_switchbuttons	Boolean
is_description	String
is_name	String
is_propertypage[ ]	String
is_propertytabtext	String

Created with the Personal Edition of HelpNDoc: Free help authoring tool

n_cst_propertyattrib

All objects that contain an of_GetPropertyInfo function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

n_cst_resizeattrib

{button See also,PI(`',`id_pfcoref_262')}

Description

Structure object containing information for tracking objects eligible for resizing.

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Properties

Field	Data type
b_scale	Boolean
b_movex	Boolean
b_movey	Boolean
b_scalewidth	Boolean
b_scaleheight	Boolean
wo_control	GraphicObject
i_movex	Integer
i_movex	Integer
i_scalewidth	Integer
i_scaleheight	Integer

i_widthmin	Integer
i_heightmin	Integer
r_x	Real
r_y	Real
r_width	Real
r_height	Real
s_classname	String
s_typeof	String

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

n_cst_resizeattrib

n_cst_resize

Created with the Personal Edition of HelpNDoc: Free Kindle producer

n_cst_restorerowattrib

{button See also,PI(`',`id_pfcoref_264')}

Description

Structure object containing information used by n_cst_dwsrv_rowmanager when restoring deleted rows.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
idw_active	DataWindow
is_filter	String
is_sort	String

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

n_cst_restorerowattrib

n_cst_dwsrv_rowmanager

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

n_cst_returnattrib

{button See also,PI(`',`id_pfcoref_266')}

Description

Structure object containing return code and associated text.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_rc	Integer
is_rs	String

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_returnattrib

n_cst_dwsrv_sort

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

n_cst_selectionattrib

{button See also,PI(`',`id_pfcoref_268')}

Description

Structure object containing information used in n_cst_selection and w_selection.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ia_argument[20]	Any
ia_returnval[ ]	Any
ipo_data[ ]	PowerObject
is_columnreturn[ ]	String
is_dataobject	String
is_title	String
itr_object	n_tr

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

n_cst_selectionattrib

n_cst_selection

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's

HTML5 template

n_cst_sortattrib

{button See also,PI(`',`id_pfcoref_270')}

Description

Structure object containing information used in n_cst_dwsrv_sort and the Sort dialog boxes.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
ib_usedisplay[ ]	Boolean
is_colnamedisplay[ ]	String
is_origcolumns[ ]	String
is_origorder[ ]	String
is_sort	String
is_sortcolumns[ ]	String

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

n_cst_sortattrib

n_cst_dwsrv_sort

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

n_cst_splashattrib

{button See also,PI(`',`id_pfcoref_272')}

Description

Structure object containing information used in n_cst_appmanager and w_splash.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_secondsvisible	Integer
is_application	String
is_copyright	String
is_logo	String
is_version	String

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

n_cst_splashattrib

n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

n_cst_sqlattrib

{button See also,PI(`',`id_pfcoref_274')}

Description

Structure object containing information used in n_cst_sql.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
s_columns	String
s_group	String
s_having	String
s_order	String
s_tables	String
s_values	String
s_verb	String
s_where	String

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

n_cst_sqlattrib

n_cst_sql

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

n_cst_textstyleattrib

{button See also,PI(`',`id_pfcoref_276')}

Description

Structure object used by u_rte-based RichTextEdit controls to access text style information.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ib_bold	Boolean
ib_italic	Boolean
ib_strikeout	Boolean
ib_subscript	Boolean
ib_superscript	Boolean
ib_underlined	Boolean

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

n_cst_textstyleattrib

u_rte

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_tmgregisterattrib

{button See also,PI(`',`id_pfcoref_278')}

Description

Structure object containing information used by n_cst_tmgmultiple.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ii_notifystyle	Integer
il_notifyinterval	Long
ipo_notify	PowerObject
is_notifyevent	String

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cst_tmgregisterattrib

n_cst_tmgmultiple

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_cst_toolbarattrib

{button See also,PI(`',`id_pfcoref_280')}

Description

Structure object containing information used in w_frame and w_toolbars.

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Properties

Field	Data type
b_visible	Boolean
ib_largebuttonsenabled	Boolean
ib_positionenabled	Boolean
ib_tooltipsenabled	Boolean
ib_visibleenabled	Boolean
i_barindex	Integer
s_displayname	String
s_title	String
e_alignment	ToolbarAlignment
iw_owner	Window

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

n_cst_toolbarattrib

w_frame

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

n_cst_trregistration

{button See also,PI(`',`id_pfcoref_282')}

Description

Structure object for tracking the Transaction object.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
b_used	Boolean
tr_object	n_tr

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

n_cst_trregistration

n_cst_trregistration

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

n_cst_tvattrib

{button See also,PI(`',`id_pfcoref_284')}

Description

Structure object containing information used by tree views.

Library

PFCMAIN.PBL

PFEMAIN.PBL

Properties

Field	Data type
b_recursive	Boolean
i_pictureindex	Integer
i_selectedpictureindex	Integer
i_statepictureindex	Integer
i_overlaypictureindex	Integer
ds_obj	n_ds
tr_obj	n_tr
s_datawindow	String
s_labelcolumn	String
s_retrieveargs	String
s_pictureindexcol	String
s_selectedpictureindexcol	String
s_statepictureindexcol	String
s_overlaypictureindexcol	String

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

n_cst_tvattrib

n_cst_tvsrvattrib

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

n_cst_tvsrvattrib

{button See also,PI(`',`id_pfcoref_286')}

Description

Structure object containing information used by n_cst_tvsrv_levelsource.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
ib_recursive	Boolean
ii_deletestyle	Integer
ids_obj	n_ds
itr_obj	n_tr
is_dataobject	String
is_filtercols	String
is_keycolumns	String
is_labelcolumn	String
is_method	String
is_overlaycolumn	String
is_picturecolumn	String
is_retrieveargs	String
is_selectedcolumn	String
is_statecolumn	String

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

n_cst_tvsrvattrib

n_cst_tvsrv_levelsource

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

n_cst_winsrv_sheetmanagerattrib

{button See also,PI(`',`id_pfcoref_288')}

Description

Structure object containing information on the previous state of active sheets.

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Properties

Field	Data type
w_obj	Window

e_state	Windowstate
i_width	Integer
i_height	Integer
i_x	Integer
i_y	Integer

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

n_cst_winsrv_sheetmanagerattrib

n_cst_winsrv_sheetmanager

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

n_cst_winsrv_statusbarattrib

{button See also,PI(`',`id_pfcoref_290')}

Description

Structure object containing information on status bar items.

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Properties

Field	Data type
s_id	String
s_type	String
s_value	String
i_width	Integer
i_bordertype	Integer
i_gapwidth	Integer

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

n_cst_winsrv_statusbarattrib

n_cst_winsrv_statusbar

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

n_cst_zoomattrib

{button See also,PI(`',`id_pfcoref_292')}

Description

Structure object containing information used in n_cst_dwsrv_printpreview and w_zoom.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
idw_obj	DataWindow
ii_zoom	Integer

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

n_cst_zoomattrib

n_cst_dwsrv_printpreview

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

s_pagesetupattrib

{button See also,PI(`',`id_pfcoref_294')}

Description

Global structure containing information used in n_cst_platform and w_pagesetup.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
b_disablemargins	Boolean
b_disableorientation	Boolean
b_disablepaper	Boolean
i_minmarginleft	Integer
i_minmarginright	Integer
i_minmargintop	Integer
i_minmarginbottom	Integer
i_marginleft	Integer
i_marginright	Integer
i_margintop	Integer
i_marginbottom	Integer
i_papersize	Integer
i_papersource	Integer
b_portraitorientation	Boolean
str_papersize[ ]	s_paperattrib
str_papersource[ ]	s_paperattrib
i_units	Integer
b_actiontaken	Boolean

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

s_pagesetupattrib

n_cst_platform

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

s_paperattrib

{button See also,PI(`',`id_pfcoref_296')}

Description

Global structure containing information used in s_pagestupattrib.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type
i_val	Integer
s_type	String

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

s_paperattrib

n_cst_platform

s_pagesetupattrib

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

s_printdlgattrib

{button See also,PI(`',`id_pfcoref_298')}

Description

Structure object containing information used by n_cst_platform for printing.

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Properties

Field	Data type

b_allpages	Boolean
b_pagenums	Boolean
b_selection	Boolean
b_disablepagenums	Boolean
b_disableselection	Boolean
b_collate	Boolean
l_copies	Long
b_printtofile	Boolean
b_disableprinttofile	Boolean
b_hideprinttofile	Boolean
l_frompage	Long
l_topage	Long
l_minpage	Long
l_maxpage	Long

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

s_printdlgattrib

n_cst_platform

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

s_svalue

{button See also,PI(`',`id_pfcoref_300')}

Description

Global structure containing information used in n_cst_dwsrv_querymode.

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Properties

Field	Data type
s_value	String

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

s_svalue

n_cst_platform

s_pagesetupattrib

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

Standard Visual User Objects

About this chapter

This chapter describes the standard visual user objects in PFC.

Contents

The standard visual user objects are listed in alphabetical order. Each object's discussion includes an alphabetical listing of instance variables, events, and object functions.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

u_cb

{button See also,PI(`',`id_pfcoref_303')} {button Functions,JI(`>list_win',`id_pfcoref_306')} {button Events,JI(`>list_win',`id_pfcoref_304')}

Description

Command button visual user object.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder CommandButton. U_cb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

u_cb

m_master

w_master

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

u_cb

{button Functions,JI(`>list_win',`id_pfcoref_306')}

GetFocus event

U_cb includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

GetFocus event (u_cb)

{button Object,JI(`>main',`bfccjegd')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent window.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

u_cb

{button Events,JI(`>list_win',`id_pfcoref_304')}

of_GetParentWindow function

of_MessageBox function

U_cb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_GetParentWindow function (u_cb)

{button Object,JI(`>main',`bfccjegd')} {button Examples,JI(`>Examples',`id_pfcoref_308')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_cb

window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_cb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_GetParentWindow function (u_cb)

This example is from the u_cb GetFocus event:

```
Window lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
        lw_parent.Dynamic Event &
        pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_MessageBox function (u_cb)

```
{button Object,JI(`>main',`bfccjegd')} {button
Examples,JI(`>Examples',`id_pfcoref_310')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_cb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation!

- Question!
- None!

button Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in CommandButtons.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_MessageBox function (u_cb)

This example calls the of_MessageBox function:

```
of_Messagebox('cb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

u_cbx

```
{button See also,PI(`',`id_pfcoref_312')} {button
Functions,JI(`>list_win',`id_pfcoref_315')} {button
Events,JI(`>list_win',`id_pfcoref_313')}
```

Description

CheckBox visual user object.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder CheckBox. U_cbx event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

u_cbx

m_master

w_master

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

u_cbx

{button Functions,JI(`>list_win',`id_pfcoref_315')}

_GetFocus event

U_cbx includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

GetFocus event (u_cbx)

{button Object,JI(`>main',`bfcbficc')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

u_cbx

{button Events,JI(`>list_win',`id_pfcoref_313')}

_of_GetParentWindow function

_of_MessageBox function

U_cbx includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetParentWindow function (u_cbx)

{button Object,JI(`>main',`bfcbficc')} {button Examples,JI(`>Examples',`id_pfcoref_317')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_cbx
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_cbx GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetParentWindow function (u_cbx)

This example is from the u_cbx GetFocus event:

```
Window lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
      lw_parent.Dynamic Event &
      pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_MessageBox function (u_cbx)

```
{button Object,JI(`>main',`bfcbficc')} {button
Examples,JI(`>Examples',`id_pfcoref_319')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_cbx
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in CheckBoxes.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_MessageBox function (u_cbx)

This example calls the of_MessageBox function:

```
of_Messagebox('cbx_error','Save', &
```

```
    as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

u_ddlb

```
{button See also,PI(`',`id_pfcoref_321')} {button
Functions,JI(`>list_win',`id_pfcoref_334')} {button
Events,JI(`>list_win',`id_pfcoref_323')} {button Instance
variables,JI(`>list_win',`id_pfcoref_322')}
```

Description

DropDownListBox visual user object ancestor. This object provides:

- Integration with PFC menus for the cut, copy, paste, clear, and select all Edit menu choices
- A function to display a popup Edit menu when the user points at the DropDownListBox and right-clicks
- An event you can use to scroll to the matching letters in the list as the user types

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder DropDownListBox. U_ddlb event scripts provide integration with PFC menus. Additionally, u_ddlb supports:

- **Cut, copy, paste, clear, and select all** These are triggered automatically by the message router.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the dropdown listbox's Constructor event.
- **Autoselect** This means that text is selected when a user tabs to the dropdown listbox. To disable autoselect, set ib_autoselect to FALSE in the dropdown listbox's Constructor event.

- **Autoscroll** This means that PFC scrolls to matching dropdown listbox entries as you type. To enable autoscroll, set ib_search to TRUE in the dropdown listbox's Constructor event.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

u_ddlb

m_master

m_edit

u_ddplb

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

u_ddlb

{button Functions,JI(`>list_win',`id_pfcoref_334')} {button Events,JI(`>list_win',`id_pfcoref_323')}

U_ddlb includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autoselect	Indicates whether PFC selects text automatically when the control receives focus	Boolean	Protected	Set this to TRUE to enable autoselect (default is FALSE)
ib_rmbmenu	Indicates whether the m_edit menu displays when the user presses the right mouse button	Boolean	Protected	Set this to FALSE to disable right mouse button support (default is TRUE)
ib_search	Controls whether PFC automatically scrolls to matching entries as the user types	Boolean	Protected	Set this to TRUE to enable autoscroll (default is FALSE)

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

u_ddlb

{button Functions,JI(`>list_win',`id_pfcoref_334')} {button Instance variables,JI(`>list_win',`id_pfcoref_322')}

- **CbnEditChange event**
- **ContextMenu event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_Paste event**
- **pfc_PreRmbMenu event**
- **pfc_SelectAll event**
- **RButtonUp event**

U_ddlb includes precoded event scripts:

CbnEditChange
ContextMenu
GetFocus
pfc_Clear
pfc_Copy
pfc_Cut
pfc_Paste
pfc_PreRmbMenu
pfc_SelectAll
RButtonUp

Created with the Personal Edition of HelpNDoc: Free Kindle producer

CbnEditChange event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Scrolls the DropDownListBox, based on the typed characters. For example, if you press *r*, the event scrolls to the first entry beginning with r; if you then press *i*, the event scrolls to the first entry beginning with ri.

This event maps to the pbm_cbneditchange event.

This capability differs from the default DropDownListBox behavior, which scrolls based on the first letter only. For example, if you press *r*, the list scrolls to the first entry beginning with r; if you then press *i*, the list scrolls to the first entry beginning with i.

Usage

To use this functionality, you must enable the Allow Edit property for the DropDownListBox. To disable this functionality, set ib_search to FALSE.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

ContextMenu event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_ddlb.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

GetFocus event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

pfc_Clear event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownListBox based on u_ddlb has focus and the user selects Edit>Clear.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

pfc_Copy event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownListBox based on u_ddlb has focus and the user selects Edit>Copy.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

pfc_Cut event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Deletes selected text and stores it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownListBox based on u_ddlb has focus and the user selects Edit>Cut.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

pfc_Paste event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownListBox based on u_ddlb has focus and the user selects Edit>Paste.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_PreRmbMenu event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

User event allowing you to modify m_edit contents before display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_ddlb
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Return value

None

Usage

Optionally add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_SelectAll event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Selects all text in the DropDownListBox.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownListBox based on u_ddlb has focus and the user selects Edit>Select All.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

RButtonUp event (u_ddlb)

{button Object,JI(`>main',`bfccdcae')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_ddlb.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

u_ddlb

{button Events,JI(`>list_win',`id_pfcoref_323')} {button Instance variables,JI(`>list_win',`id_pfcoref_322')}

of_GetParentWindow function

of_MessageBox function

U_ddlb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetParentWindow function (u_ddlb)

{button Object,JI(`>main',`bfccdcae')} {button Examples,JI(`>Examples',`id_pfcoref_336')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_ddlb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_ddlb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetParentWindow function (u_ddlb)

This example is from the u_ddlb GetFocus event:

```
Window  lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
       pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_MessageBox function (u_ddlb)

```
{button Object,JI(`>main',`bfccdcae')} {button
Examples,JI(`>Examples',`id_pfcoref_338')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_ddlb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel!

- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in DropDownListBoxes.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_MessageBox function (u_ddlb)

This example calls the of_MessageBox function:

```
of_Messagebox('ddlb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

u_ddplb

```
{button See also,PI(`',`id_pfcoref_340')} {button
Functions,JI(`>list_win',`id_pfcoref_353')} {button
Events,JI(`>list_win',`id_pfcoref_342')} {button Instance
variables,JI(`>list_win',`id_pfcoref_341')}
```

Description

DropDownPictureListBox user object ancestor. This object provides:

- Integration with PFC menus for the cut, copy, paste, clear, and select all Edit menu choices
- A function to display a popup Edit menu when the user points at the DropDownPictureListBox and right-clicks
- An event you can use to scroll to the matching letters in the list as the user types

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder DropDownPictureListBox. U_ddplb event scripts provide integration with PFC menus. Additionally, u_ddplb supports:

- **Cut, copy, paste, clear, and select all** These are triggered automatically by the message router.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the dropdown picturelistbox's Constructor event.
- **Autoselect** This means that text is selected when a user tabs to the dropdown picturelistbox. To disable autoselect, set ib_autoselect to FALSE in the dropdown picturelistbox's Constructor event.
- **Autoscroll** This means that PFC scrolls to matching dropdown picturelistbox entries as you type. To enable autoscroll, set ib_search to TRUE in the dropdown picturelistbox's Constructor event.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

u_ddplb

m_edit

u_ddlb

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

u_ddplb

{button Functions,JI(`>list_win',`id_pfcoref_353')} {button Events,JI(`>list_win',`id_pfcoref_342')}

U_ddplb includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autoselect	Indicates whether PFC selects text automatically when the control receives focus	Boolean	Protected	Set this to TRUE to enable autoselect (default is FALSE)
ib_rmbmenu	Controls whether the m_edit menu displays when the user presses the right mouse button	Boolean	Protected	Set this to FALSE to disable right mouse button support (default is TRUE)
ib_search	Controls whether PFC automatically scrolls to matching entries as the user types	Boolean	Protected	Set this to TRUE to enable autoscroll (default is FALSE)

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

u_ddplb

{button Functions,JI(`>list_win',`id_pfcoref_353')} {button Instance variables,JI(`>list_win',`id_pfcoref_341')}

- **CbnEditChange event**
- **ContextMenu event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_Paste event**
- **pfc_PreRmbMenu event**
- **pfc_SelectAll event**
- **RButtonUp event**

U_ddplb includes precoded event scripts:

CbnEditChange	pfc_Cut
ContextMenu	pfc_Paste
GetFocus	pfc_PreRmbMenu
pfc_Clear	pfc_SelectAll
pfc_Copy	RButtonUp

Created with the Personal Edition of HelpNDoc: Easily create EPub books

CbnEditChange event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Scrolls the DropDownPictureListBox, based on the typed characters. For example, if you press *r*, the event scrolls to the first entry beginning with r; if you then press *i*, the event scrolls to the first entry beginning with ri.

This event maps to the pbm_cbneditchange event.

This capability differs from the default DropDownPictureListBox behavior, which scrolls based on the first letter only. For example, if you press *r*, the list scrolls to the first entry beginning with r; if you then press *i*, the list scrolls to the first entry beginning with i.

Usage

To use this functionality, you must enable the Allow Edit property for the DropDownPictureListBox. To disable this functionality, set ib_search to FALSE.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

ContextMenu event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_ddplb.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

GetFocus event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

pfc_Clear event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownPictureListBox based on u_ddplb has focus and the user selects Edit>Clear.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_Copy event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownPictureListBox based on u_ddplb has focus and the user selects Edit>Copy.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

pfc_Cut event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Deletes selected text and stores it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownPictureListBox based on u_ddplb has focus and the user selects Edit>Cut.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

pfc_Paste event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownPictureListBox based on u_ddplb has focus and the user selects Edit>Paste.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

pfc_PreRmbMenu event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

User event allowing you to modify m_edit contents before display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_ddplb
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Return value

None

Usage

Optionally add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

pfc_SelectAll event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Selects all text in the DropDownPictureListBox.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a DropDownPictureListBox based on u_ddplb has focus and the user selects Edit>Select All.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

RButtonUp event (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_ddplb.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

u_ddplb

{button Events,JI(`>list_win',`id_pfcoref_342')} {button Instance variables,JI(`>list_win',`id_pfcoref_341')}

of_GetParentWindow function

of_MessageBox function

U_ddplb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_GetParentWindow function (u_ddplb)

{button Object,JI(`>main',`bfcdbhfj')} {button Examples,JI(`>Examples',`id_pfcoref_355')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_ddplb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_ddplb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_GetParentWindow function (u_ddplb)

This example is from the u_ddplb GetFocus event:

```
Window  lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_MessageBox function (u_ddplb)

```
{button Object,JI(`>main',`bfcdbhfj')} {button
Examples,JI(`>Examples',`id_pfcoref_357')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_ddplb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox

message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in DropDownPictureListBoxes.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_MessageBox function (u_ddplb)

This example calls the of_MessageBox function:

```
of_Messagebox('ddplb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

u_dw

```
{button See also,PI(`',`id_pfcoref_359')} {button
Functions,JI(`>list_win',`id_pfcoref_446')} {button
Events,JI(`>list_win',`id_pfcoref_361')} {button Instance
variables,JI(`>list_win',`id_pfcoref_360')}
```

Description

Ancestor for all DataWindow controls in applications written using PFC. This DataWindow user object includes:

- Functions to enable and disable DataWindow services
- Events that automatically make use of enabled DataWindow services

- Precoded user events that provide basic editing functionality
- Template user events to which you can add application-specific functionality

U_dw is a self-updating object.

Ancestry

pfc_u_dw
- u_dw
  - **Events**

Clicked	pfc_NextPage	pfc_ResetUpdate
DBError	pfc_Operators	pfc_RestoreRow
Destructor	pfc_PageSetup	pfc_Retrieve
DropDown	pfc_PageSetupDlg	pfc_RetrieveDDDW
GetFocus	pfc_Paste	pfc_RowChanged
ItemChanged	pfc_PopulateDDDW	pfc_RowValidation
ItemError	pfc_PostInsertRow	pfc_Ruler
ItemFocusChanged	pfc_PostUpdate	pfc_SelectAll
LButtonDown	pfc_PreDeleteRow	pfc_SortDlg
LButtonUp	pfc_PreFindDlg	pfc_Undo
pfc_AcceptText	pfc_PreInsertRow	pfc_Update
pfc_AddRow	pfc_PrePageSetupDlg	pfc_UpdatePrep
pfc_Clear	pfc_PrePrintDlg	pfc_UpdatesPending
pfc_Copy	pfc_PreProperties	pfc_Validation
pfc_Cut	pfc_PreReplaceDlg	pfc_Values
pfc_DDCalculator	pfc_PreRestoreRow	pfc_Zoom
pfc_DDCalendar	pfc_PreRMBMenu	RButtonDown
pfc_Debug	pfc_PreUpdate	RButtonUp
pfc_DeleteRow	pfc_PreviousPage	Resize
pfc_Descendant	pfc_Print	RetrieveEnd
pfc_FilterDlg	pfc_PrintDlg	RetrieveStart
pfc_FindDlg	pfc_PrintImmediate	RowFocusChanged
pfc_FirstPage	pfc_PrintPreview	RowFocusChanging
pfc_InsertRow	pfc_Properties	SQLPreview
pfc_LastPage	pfc_ReplaceDlg	

  - **Object functions**

Public	of_AcceptText	Public	of_SetMultiTable
Public	of_CheckRequired	Public	of_SetPrintPreview
Public	of_GetParentWindow	Public	of_SetProperty
Public	of_GetUpdateable	Public	of_SetQuerymode
Public	of_IsRoot	Public	of_SetReport
Public	of_IsSharedProperty	Public	of_SetReqColumn
Public	of_IsUpdateable	Public	of_SetResize
Protected	of_MessageBox	Public	of_SetRowManager
Public	of_PostUpdate	Public	of_SetRowSelect
Public	of_Reset	Public	of_SetSharedProperty
Public	of_Retrieve	Public	of_SetSort
Public	of_SetBase	Public	of_SetTransObject
Public	of_SetDropDownCalculator	Public	of_SetUpdateable
Public	of_SetDropDownCalendar	Public	of_SetUpdateRequestor
Public	of_SetDropDownSearch	Public	of_Update
Public	of_SetFilter	Public	of_UpdatePrep
Public	of_SetFind	Public	of_UpdatesPending
Public	of_SetLinkage	Public	of_Validation

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

m_dw

n_cst_conversion

n_cst_dwpropertyattrib

n_cst_findattrib

n_cst_platform

n_cst_restorerowattrib

n_cst_string

s_pagesetupattrib

s_printdlgattrib

Although u_dw contains substantial standalone functionality, the DataWindow services user objects (those objects whose name starts with n_cst_dwsrv) must be available to get the most out of it.

Usage

To use u_dw:

1. Place a u_dw user object in your window.
2. In the window Open event (or some other appropriate place), enable DataWindow services as needed by your application.
3. Extend basic u_dw functionality by adding PowerScript code to events and user events.
4. Add application-specific functionality as needed.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

u_dw

n_cst_dwsrv

n_cst_dwsrv_dropdownsearch

n_cst_dwsrv_filter

n_cst_dwsrv_find

n_cst_dwsrv_linkage

n_cst_dwsrv_multitable

n_cst_dwsrv_printpreview

n_cst_dwsrv_property

n_cst_dwsrv_querymode

n_cst_dwsrv_report

n_cst_dwsrv_reqcolumn

n_cst_dwsrv_resize

n_cst_dwsrv_rowmanager

n_cst_dwsrv_rowselection

n_cst_dwsrv_sort

u_calculator

u_calendar

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

u_dw

{button Functions,JI(`>list_win',`id_pfcoref_446')} {button Events,JI(`>list_win',`id_pfcoref_361')}

U_dw contains instance variables and one shared variable:

Instance variable	Description	Data type	Access	Usage
CONTINUE_ACTION	Constant set to 1	Integer	Public	Internal
FAILURE	Constant set to -1	Integer	Public	Internal
ib_isupdateable	Indicates whether the DataWindow can be updated	Boolean	Protected	Access through the of_GetUpdateable and of_SetUpdateable functions. Default is TRUE
ib_rmbfocuschange	Used to track focus change while the right mouse button is down	Boolean	Protected	Internal
ib_rmbmenu	Controls whether the m_dw menu displays when the user presses the right mouse button over the DataWindow control	Boolean	Protected	Set FALSE in the DataWindow's Constructor event to disable right mouse button support
inv_base	Reference variable for basic DataWindow services	n_cst_dwsrv	Public	Use in dot notation to access n_cst_dwsrv functions and attributes
inv_dropdownsearch	Reference variable for the dropdown DataWindow search service	n_cst_dwsrv_ dropdownsearch	Public	Use in dot notation to access dropdown DataWindow search functions and attributes
inv_filter	Reference variable for the DataWindow filter service	n_cst_dwsrv_filter	Public	Use in dot notation to access DataWindow filter service functions and attributes
inv_find	Reference variable for the DataWindow find service	n_cst_dwsrv_find	Public	Use in dot notation to access DataWindow find service functions and attributes
inv_linkage	Reference variable for the DataWindow linkage service	n_cst_dwsrv_linkage	Public	Use in dot notation to access n_cst_dwsrv_linkage functions and attributes
inv_multitable	Reference variable for the DataWindow multitable update service	n_cst_dwsrv_ multitable	Public	Use in dot notation to access n_cst_dwsrv_ multitable functions and attributes
inv_printpreview	Reference variable for the DataWindow print preview service	n_cst_dwsrv_ printpreview	Public	Use in dot notation to access n_cst_dwsrv_ printpreview functions and attributes
inv_property	Reference variable for the DataWindow property service	n_cst_dwsrv_property	Public	Internal
inv_querymode	Reference variable for the query mode service	n_cst_dwsrv_ querymode	Public	Use in dot notation to access n_cst_dwsrv_ querymode functions and attributes
inv_report	Reference variable for the reporting	n_cst_dwsrv_report	Public	Use in dot notation to access

	service			n_cst_dwsrv_report functions and attributes
inv_reqcolumn	Reference variable for the required column service	n_cst_dwsrv_ reqcolumn	Public	Use in dot notation to access n_cst_dwsrv_ reqcolumn functions and attributes
inv_resize	Reference variable for the resize service	n_cst_dwsrv_resize	Public	Use in dot notation to access n_cst_dwsrv_resize functions and attributes
inv_rowmanager	Reference variable for the row manager service	n_cst_dwsrv_ rowmanager	Public	Use in dot notation to access n_cst_dwsrv_ rowmanager functions and attributes
inv_rowselect	Reference variable for the row selection service	n_cst_dwsrv_ rowselection	Public	Use in dot notation to access n_cst_dwsrv_ rowselection functions and attributes
inv_sort	Reference variable for the sort service	n_cst_dwsrv_sort	Public	Use in dot notation to access n_cst_dwsrv_sort functions and attributes
is_updatesallowed	Specifies allowable update types	String	Protected	Internal
itr_object	Transaction object used by the DataWindow	n_tr	Public	DataWindow services use this instance variable to track the transaction object Set with of_SetTransObject
iuo_calculator	Reference variable for dropdown calculator	u_calculator	Public	Use in dot notation to access u_calculator events, functions, and attributes
iuo_calendar	Reference variable for dropdown calendar	u_calendar	Public	Use in dot notation to access u_calendar events, functions, and attributes
NO_ACTION	Constant set to 0	Integer	Public	Internal
PREVENT_ACTION	Constant set to 0	Integer	Public	Internal
snv_property	Shared reference variable for the DataWindow property service	n_cst_dwsrv_property	Public	Internal
SUCCESS	Constant set to 1	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

u_dw

{button Functions,JI(`>list_win',`id_pfcoref_446')} {button Instance variables,JI(`>list_win',`id_pfcoref_360')}

- Clicked event
- DBError event
- Destructor event
- Dropdown event

GetFocus event
ItemChanged event
ItemError event
ItemFocusChanged event
LButtonDown event
LButtonUp event
pfc_AcceptText event
pfc_AddRow event
pfc_Clear event
pfc_Copy event
pfc_Cut event
pfc_DDCalculator event
pfc_DDCalendar event
pfc_Debug event
pfc_DeleteRow event
pfc_Descendant event
pfc_FilterDlg event
pfc_FindDlg event
pfc_FirstPage event
pfc_InsertRow event
pfc_LastPage event
pfc_NextPage event
pfc_Operators event
pfc_PageSetup event
pfc_PageSetupDlg event
pfc_Paste event
pfc_PopulateDDDW event
pfc_PostInsertRow event
pfc_PostUpdate event
pfc_PreDeleteRow event
pfc_PreFindDlg event
pfc_PreInsertRow event
pfc_PrePageSetupDlg event
pfc_PrePrintDlg event
pfc_PreProperties event
pfc_PreReplaceDlg event
pfc_PreRestoreRow event
pfc_PreRmbMenu event
pfc_PreUpdate event
pfc_PreviousPage event
pfc_Print event

- pfc_PrintDlg event
- pfc_PrintImmediate event
- pfc_PrintPreview event
- pfc_Properties event
- pfc_ReplaceDlg event
- pfc_ResetUpdate event
- pfc_RestoreRow event

pfc_Retrieve event

- pfc_RetrieveDDDW event
- pfc_RowChanged event
- pfc_RowValidation event
- pfc_Ruler event
- pfc_SelectAll event
- pfc_SortDlg event
- pfc_Undo event
- pfc_Update event
- pfc_UpdatePrep event
- pfc_UpdatesPending event
- pfc_Validation event
- pfc_Values event
- pfc_Zoom event
- RButtonDown event
- RButtonUp event
- Resize event
- RetrieveEnd event
- RetrieveStart event
- RowFocusChanged event
- SQLPreview event

U_dw contains two types of events/user events:

- Precoded events and user events that PFC uses to provide functionality
- Template user events to which you optionally add PowerScript code to take advantage of DataWindow services

Clicked
DBError
Destructor
Dropdown
GetFocus
ItemChanged
ItemError
ItemFocusChanged
LButtonDown
LButtonUp
pfc_AcceptText
pfc_AddRow
pfc_Clear
pfc_PrePrintDlg
pfc_PreProperties
pfc_PreReplaceDlg
pfc_PreRestoreRow
pfc_PreRmbMenu
pfc_PreUpdate
pfc_PreviousPage
pfc_Print
pfc_PrintDlg
pfc_PrintImmediate
pfc_PrintPreview
pfc_Properties
pfc_ReplaceDlg

pfc_Copy
pfc_Cut
pfc_DDCalculator
pfc_DDCalendar
pfc_Debug
pfc_DeleteRow
pfc_Descendant
pfc_FilterDlg
pfc_FindDlg
pfc_FirstPage
pfc_InsertRow
pfc_LastPage
pfc_NextPage
pfc_Operators
pfc_PageSetup
pfc_PageSetupDlg
pfc_Paste
pfc_PopulateDDDW
pfc_PostInsertRow
pfc_PostUpdate
pfc_PreDeleteRow
pfc_PreFindDlg
pfc_PreInsertRow
pfc_PrePageSetupDlg
pfc_ResetUpdate
pfc_RestoreRow
pfc_Retrieve
pfc_RetrieveDDDW
pfc_RowChanged
pfc_RowValidation
pfc_Ruler
pfc_SelectAll
pfc_SortDlg
pfc_Undo
pfc_Update
pfc_UpdatePrep
pfc_UpdatesPending
pfc_Validation
pfc_Values
pfc_Zoom
RButtonDown
RButtonUp
Resize
RetrieveEnd
RetrieveStart
RowFocusChanged
SQLPreview

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

Clicked event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Notifies DataWindow selection service, linkage service, and sort service functions, if enabled.

Usage

This event executes when the user clicks in the DataWindow. The functions called in the Clicked event automatically handle row selection and sorting, if enabled.

For the selection service, you may need to add logic in other places to access selected rows and perform application specific processing.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

DBError event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays a message box informing the user that a database error occurred.

Usage

This event is called when there is a database error.

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your

PDFs

Destructor event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Destroys all existing DataWindow service objects.

Usage

This event executes when the DataWindow closes.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

Dropdown event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Indicates whether the current dropdown object is associated with u_calculator or u_calendar.

Usage

This event executes when a DropDownListBox or DropDownDataWindow begins the dropdown process.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

GetFocus event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Notifies the parent window so it can track the current control.

Usage

This event executes when the DataWindow control gets focus. It triggers the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

ItemChanged event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Notifies the linkage service that an item has changed.

Usage

This event executes when a field in the DataWindow control has been modified and loses focus.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

ItemError event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

When an error occurs, calls the required column service, if enabled, to set the ActionCode to 3, causing the DataWindow to accept the value.

Usage

Use this event to add application-specific error-handling functionality.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

ItemFocusChanged event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_370')}

Description

Notifies the linkage service that item focus has changed, Also, if MicroHelp is enabled for the application, this event calls the pfc_Microhelp event on the parent.

Usage

This event executes when the user moves to a different item within a DataWindow. It displays MicroHelp using text defined in the DataWindow column's tag value. The column's tag value must specify MICROHELP=*microhelptext*.

You enable MicroHelp display through the n_cst_appmanager of_SetMicrohelp function.

If you are using the dropdown DataWindow search service (n_cst_dwsrv_dropdownsearch), add code to this event that calls the n_cst_dwsrv_dropdownsearch pfc_ItemFocusChanged event.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

ItemFocusChanged event (u_dw)

This example shows the code you add to call the n_cst_dropdownsearch pfc_ItemFocusChanged event:

```
inv_dropdownsearch.Event pfc_ItemFocusChanged &

        (row, dwo)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

LButtonDown event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')}
```

Description

Calls the row selection service's pfc_LButtonDown event.

Usage

This event executes when the user presses the left mouse button over a DataWindow.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

LButtonUp event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the row selection service's pfc_LButtonUp event.

Usage

This event executes when the user releases the left mouse button over a DataWindow.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

pfc_AcceptText event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Accepts text for the DataWindow control, optionally setting focus if an error occurs.

Syntax

instancename.Event **pfc_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of u_dw
focusonerror	Boolean indicating whether focus should be set if an error occurs. This argument is accessed through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the w_master event, as part of its default save process.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

pfc_AddRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the row manager service to add a row at the end of the DataWindow. Also notifies the linkage service, if enabled.

Return value

Long. Returns the number of the new row if the event succeeds and -1 if an error occurs.

Usage

This event also calls the pfc_PreInsertRow and pfcPostInsertRow events.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

pfc_Clear event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Clear from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_Copy event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Copy from the menu bar of a menu descended from the PFC m_master menu. It is also triggered by the m_edit.m_copy clicked event.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_Cut event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Deletes selected text and stored it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Cut from the menu bar of a menu descended from the PFC m_master menu. It is also triggered by the m_edit.m_cut clicked event.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

pfc_DDCalculator event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_379')}

Description

Displays the dropdown calculator if the current column has been registered and uses a numeric data type.

Return value

Integer. Returns 1 if the function succeeds, 0 if the current DataWindow column has not been registered, and -1 if an error occurs.

Usage

Call this event to display the dropdown calculator programmatically. If the current DataWindow column has been registered and uses a numeric data type, the dropdown calculator displays.

The Dropdown event displays the dropdown calculator automatically for registered columns.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

pfc_DDCalculator event (u_dw)

This example calls the pfc_DDCalculator event:

```
Integer  li_return


li_return = dw_1.Event pfc_DDCalculator( )
...
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

pfc_DDCalendar event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_381')}
```

Description

Displays the dropdown calendar if the current column has been registered and uses a Date data type.

Return value

Integer. Returns 1 if the function succeeds, 0 if the current DataWindow column has not been registered, and -1 if an error occurs.

Usage

Call this event to display the dropdown calendar programmatically. If the current DataWindow column has been registered and uses a Date data type, the dropdown calendar displays.

The Dropdown event displays the dropdown calendar automatically for registered columns.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_DDCalendar event (u_dw)

This example calls the pfc_DDCalendar event:

```
Integer  li_return


li_return = dw_1.Event pfc_DDCalendar()
```

```
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_Debug event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')}
```

Description

Calls the pfc_Properties event, which opens the DataWindow Properties window, using either the inv_properties instance variable or the snv_properties shared variable.

Usage

This event is called when the user selects DataWindow Properties from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

pfc_DeleteRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Deletes either the current row or, if the row manager service is enabled, all selected rows. If the linkage service is enabled, this event calls that service's pfc_DeleteRow event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Call this event to delete one or more rows.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

pfc_Descendant event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

PFC events and functions may trigger this event to determine if the DataWindow control is inherited from u_dw.

Return value

Boolean. Always returns TRUE.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_FilterDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays a filter dialog box by calling the n_cst_dwsrv_filter service's pfc_FilterDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects View>Filter from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

pfc_FindDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays a find dialog box by calling the n_cst_dwsrv_find service's pfc_FindDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects Edit>Find from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

pfc_FirstPage event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Scrolls to the first page of the DataWindow.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Call this event to scroll the DataWindow to the first page.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

pfc_InsertRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Inserts a row just before the current row and calls the n_cst_dwsrv_linkage pfc_InsertRow event. It calls the pfc_PostInsertRow event for post-insert functionality.

Return value

Integer. Returns the number of the inserted row if the event succeeds and -1 if an error occurs.

Usage

Call this event to insert a row.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

pfc_LastPage event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Scrolls to the last page of the DataWindow.

Return value

Long. Returns the row number displayed at the top of the last page if the event succeeds and -1 if an error occurs.

Usage

Call this event to scroll the DataWindow to the last page.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

pfc_NextPage event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Scrolls to the next page of the DataWindow.

Return value

Long. Returns the row number at the top of the page if the event succeeds and -1 if an error occurs.

Usage

Call this event to scroll the DataWindow to the next page.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_Operators event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the n_cst_dwsrv_querymode pfc_Operators event, which displays a w_selection dialog box containing operators.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

This event is called by the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

pfc_PageSetup event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the pfc_PageSetupDlg event to display the Page Setup dialog box.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

This event is called when the user selects File>Page Setup from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_PageSetupDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays the Page Setup dialog box by calling the n_cst_platform of_PageSetupDlg function, passing the DataWindow's page display properties.

Syntax

instancename.Event **pfc_PageSetupDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	S_pagesetupattrib variable into which the event places page setup information. This argument is accessed through the *astr_pagesetup* argument (passed by reference)

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

This event is called by the pfc_PageSetup event.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

pfc_Paste event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Paste from the menu bar of a menu descended from the PFC m_master menu. It is also triggered by the m_edit.m_paste Clicked event.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

pfc_PopulateDDDW event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_396')}

Description

Empty user event that you extend to populate the specified DropDownDataWindow.

Syntax

instancename.Event **pfc_PopulateDDDW** (*column*, *dddw*)

Argument	Description
instancename	Instance name of u_dw
column	String specifying the column containing the dropdown DataWindow for which rows are retrieved. Access this value through the *as_colname* argument
dddw	DataWindowChild instance referencing the DropDownDataWindow column. This argument is accessed through the *adwc_obj* argument (passed by reference)

Return value

Long. Returns the number of rows populated if the event succeeds and -1 if an error occurs.

Usage

The code you add to this event can populate the DropDownDataWindow in any manner, including database retrieval, DataWindow caching, and retrieving from a file.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

pfc_PopulateDDDW event (u_dw)

This example shows code you might add to the pfc_PopulateDDDW event:

```
IF adwc_obj.SetTransObject(SQLCA) = -1 THEN

        Return -1
ELSE
        Return adwc_obj.Retrieve()
END IF
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_PostInsertRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Empty user event allowing you to perform post-insert processing.

Syntax

instancename.Event **pfc_PostInsertRow** (*row*)

Argument	Description
instancename	Instance name of u_dw
row	Number of row added or inserted

Usage

This event is posted from the pfc_AddRow and pfc_InsertRow events.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

pfc_PostUpdate event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_399')}

Description

Clears the DataWindow update flags.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

You can extend this event to code additional post-update processing.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_PostUpdate event (u_dw)

This example is from the of_PostUpdate function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_PostUpdate()
Else
        li_rc = this.Event pfc_postupdate()
End If
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

pfc_PreDeleteRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the n_cst_dwsrv_linkage pfc_PreDeleteRow event to allow for linkage processing. This may include database updates as well as the prevention of deletion processing.

Syntax

instancename.Event **pfc_PreDeleteRow** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Return 1 to continue deletion, 0 to prevent deletion, and -1 if an error occurs.

Usage

You can extend this event to perform additional predelete processing.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_PreFindDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Empty user event allowing you to modify the properties passed to the pfc_FindDlg event.

Syntax

instancename.Event **pfc_PreFindDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	N_cst_findattrib variable into which the event places additional information. This argument is accessed through the *anv_findattrib* argument (passed by reference)

Usage

Use this event to modify or extend the information passed in the n_cst_findattrib object.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_PreInsertRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the n_cst_dwsrv_linkage pfc_PreInsertRow event to allow for linkage processing. This may include prevention of insert processing.

Syntax

instancename.Event **pfc_PreInsertRow** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Return 1 to continue insertion, 0 to prevent insertion, and -1 if an error occurs.

Usage

You can extend this event to perform additional preinsert processing.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_PrePageSetupDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_404')}

Description

Empty user event allowing you to modify the properties passed to the n_cst_platform of_PageSetupDlg function.

Syntax

instancename.Event **pfc_PrePageSetupDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	S_pagesetupattrib variable into which the event places additional page setup information. This argument is accessed through the *astr_pagesetup* argument (passed by reference)

Usage

This event is called by the pfc_PageSetupDlg event before calling the n_cst_platform of_PageSetupDlg function.

You can use this event to modify or extend the information passed in the s_pagesettupattrib structure.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

pfc_PrePageSetupDlg event (u_dw)

This example contains code you might add to the pfc_PrePageSetupDlg event:

```
// Sets page setup to portrait

astr_pagesetup.b_portraitorientation = TRUE
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

pfc_PrePrintDlg event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_406')}
```

Description

Empty user event allowing you to modify the properties passed to the n_cst_platform of_PrintDlg function.

Syntax

instancename.Event **pfc_PrePrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	S_printdlgattrib variable into which the event places additional printing information. This argument is accessed through the *astr_printdlg* argument (passed by reference)

Return value

None

Usage

This event is called by pfc_PrintDlg before calling the n_cst_platform of_PrintDlg function.

You can use this event to modify or extend the information passed in the s_printdlgattrib structure.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

pfc_PrePrintDlg event (u_dw)

This example contains code you might add to the pfc_PrePrintDlg event:

```
// Default copies to 1

astr_printdlg.l_copies = 1
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_PreProperties event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')}
```

Description

Empty user event allowing you to modify the properties passed to the DataWindow Properties dialog box.

Syntax

instancename.Event **pfc_PreProperties** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	N_cst_dwpropertyattrib variable into which the event places additional information. This argument is accessed through the *anv_dwpropertyattrib* argument (passed by reference)

Usage

This event is called by the pfc_Debug event before calling the n_cst_property of_OpenProperty function.

You can use this event to modify or extend the information passed in the n_cst_propertyattrib object.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_PreReplaceDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Empty user event allowing you to modify the properties passed to the pfc_ReplaceDlg event.

Syntax

instancename.Event **pfc_PreReplaceDlg** (*attributes*)

Argument	Description

instancename	Instance name of u_dw
attributes	N_cst_findattrib variable into which the event places additional information. This argument is accessed through the *anv_findattrib* argument (passed by reference)

Usage

Use this event to modify or extend the information passed in the n_cst_findattrib object.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

pfc_PreRestoreRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_410')}

Description

Prepares the w_restorerow dialog box for display.

Syntax

instancename.Event **pfc_PreRestoreRow** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	N_cst_restorerowattrib variable into which the event places additional information. This argument is accessed through the *anv_restorerowattrib* argument (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The n_cst_rowmanager of_UnDelete function calls this event before opening the w_restorerow window. It adds filter and sort information to the n_cst_restorerowattrib structure.

You can extend this event to modify the information passed to the w_restorerow window.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

pfc_PreRestoreRow event (u_dw)

This example is from the n_cst_dwsrv_rowmanager of_UnDelete function:

```
n_cst_restorerowattrib    lnv_restorerowattrib


lnv_restorerowattrib.idw_active = idw_requestor
idw_requestor.Event pfc_PreRestoreRow &
        (lnv_restorerowattrib)
OpenWithParm(w_restorerow, lnv_restorerowattrib)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

pfc_PreRmbMenu event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_412')}
```

Description

Empty user event allowing you to modify m_dw contents before display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_dw
editmenu	M_dw variable containing the popup menu to be displayed. This argument, which is accessed through the *am_dw* argument, is passed by reference

Usage

Optionally add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

pfc_PreRmbMenu event (u_dw)

This example contains code you might add to the pfc_PreRmbMenu event:

```
// Always disable delete

am_dw.m_table.m_delete.Enabled = FALSE
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

pfc_PreUpdate event (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_414')}
```

Description

Empty user event called by pfc_Update before updating rows.

Syntax

instancename.Event **pfc_PreUpdate** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Return 1 if the event succeeds and -1 to terminate update processing.

Usage

Extend this event to add site-specific preupdate processing.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help

Authoring Tool

pfc_PreUpdate event (u_dw)

This example contains code you might add to the pfc_PreUpdate event:

```
// Sets page setup to portrait

astr_pagesetup.b_portraitorientation = TRUE
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

pfc_PreviousPage event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Scrolls to the previous page of the DataWindow.

Return value

Long. Returns the row number at the top of the page if the event succeeds and -1 if an error occurs.

Usage

Call this event to scroll the DataWindow to the previous page.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

pfc_Print event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the pfc_PrintDlg function and prints the DataWindow, as specified in the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects File>Print from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

pfc_PrintDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Initializes the s_printdlgattrib structure with the DataWindow's current settings, displays the Print dialog box by calling the n_cst_platform of_PrintDlg function, and resets the DataWindow's settings, as specified by the user.

Syntax

instancename.Event **pfc_PrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_dw
attributes	S_printdlgattrib variable into which the event places printing information. This argument, which is accessed through the *astr_printdlg* argument, is passed by reference

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the pfc_Print event.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_PrintImmediate event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Prints the current DataWindow without displaying the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the DataWindow has focus and the user selects File>Print Immediate from the menu bar of a menu descended from the PFC m_master menu.

Hiding Print Immediate Consider hiding the Print Immediate menu item but enabling its toolbar button. This provides functionality equivalent to many current software packages.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

pfc_PrintPreview event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Toggles the DataWindow between preview and edit modes.

Return value

Boolean. Returns TRUE if the DataWindow is placed in preview mode and FALSE if the DataWindow is placed in edit mode.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

This event is called when the DataWindow has focus and the user selects File>Print Preview from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

pfc_Properties event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays the DataWindow properties window.

Return value

None.

Usage

To use this event, you must enable the DataWindow property service by calling either of_SetProperty or of_SetSharedProperty.

This event is called when the user selects Properties from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_ReplaceDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays a Replace dialog box by calling the n_cst_dwsrv_find service's pfc_ReplaceDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects View>Replace from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_ResetUpdate event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Clears the DataWindow's update flags.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called as part of the default pfc_Save process.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

pfc_RestoreRow event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the row manager pfc_RestoreRow event, which displays the w_restorerow dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

pfc_Retrieve event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_425')}

Description

Empty user event to contain all database retrieve logic. PFC calls this event for all database retrieves.

Return value

Long. Returns the result of the Retrieve function.

Usage

Add code to this event to retrieve rows for the DataWindow.

This event is called by the u_dw of_Retrieve function and by the n_cst_dwsrv_linkage of_Retrieve function.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

pfc_Retrieve event (u_dw)

This example shows the code you add to this event:

```
Return this.Retrieve()
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

pfc_RetrieveDDDW event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Obsolete. Use pfc_PopulateDDDW instead.

Syntax

instancename.Event **pfc_RetrieveDDDW** (*column*)

Argument	Description
instancename	Instance name of u_dw
column	String specifying the column containing the dropdown DataWindow for which rows are retrieved. Access this value through the *as_column* argument

Return value

Long. Returns the result of the Retrieve function.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

pfc_RowChanged event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the linkage service's pfc_RowFocusChanged function.

Usage

This event is called whenever the DataWindow buffer has been sorted, filtered, or otherwise modified such that the current row has not changed but the actual row at that location is different.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

pfc_RowValidation event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Empty user event that you extend to perform site-specific row validation.

Syntax

instancename.Event **pfc_RowValidation** (*row*)

Argument	Description
instancename	Instance name of u_dw
row	Long specifying the row to validate. Access this value through the *al_row* argument

Return value

Integer. Returns 1 if validation succeeds and -1 if an error occurs.

Usage

Extend this event to perform additional row validation.

The n_cst_dwsrv_linkage of_Save function calls this event.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

pfc_Ruler event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Toggles the DataWindow between displaying and hiding rulers in print preview mode.

Return value

Boolean. Returns TRUE if print preview rulers are displayed and FALSE if they are hidden.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

This event is called when the DataWindow has focus and the user selects View>Ruler from the menu bar

of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

pfc_SelectAll event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Selects all text in the current DataWindow cell.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Select All from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

pfc_SortDlg event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays a sort dialog box by calling the n_cst_dwsrv_sort service's pfc_SortDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects View>Sort from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

pfc_Undo event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Cancels the last edit to the DataWindow.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs or there is nothing to undo.

Usage

This event is triggered when the DataWindow has focus and the user selects Edit>Undo from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

pfc_Update event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Updates the DataWindow. If the multitable update service is enabled, this event updates all specified tables.

Syntax

instancename.Event **pfc_Update** (*accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of u_dw
accepttext	Boolean specifying whether the DataWindow control should automatically perform an AcceptText before performing the update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether the DataWindow control should automatically reset the update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This event calls the pfc_PreUpdate event before updating rows.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

pfc_UpdatePrep event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Empty user event to which you can add code that prepares for update.

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this function.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

pfc_UpdatesPending event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Determines if there are pending updates for the DataWindow.

Return value

Integer. Returns 1 if there are pending updates for the DataWindow and 0 if there are no pending updates.

Usage

This event is called by the of_UpdatesPending function and by the n_cst_dwsrv_linkage

of_GetUpdatesPending function.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_Validation event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Checks for required fields.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the of_Validation function. You can extend this event to perform additional validation.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

pfc_Values event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the n_cst_dwsrv_querymode pfc_Values event, which displays a w_selection dialog box containing a list of values.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

This event is called by the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_Zoom event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays the w_zoom dialog box, allowing the user to control DataWindow display while in print preview mode.

Return value

Integer. Returns the zoom level chosen by the user if the event succeeds, 0 if the user cancels out of the w_zoom dialog box, and -1 if an error occurs.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

This event is called when the DataWindow has focus and the user selects View>Zoom from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

RButtonDown event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the linkage service and row selection service's pfc_RButtonDown event.

Usage

This event executes when the user presses the right mouse button over a DataWindow. The n_cst_dwsrv_linkage pfc_RButtonDown event can cancel right-click processing.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

RButtonUp event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Displays the m_dw popup menu.

Usage

This event executes when the user releases the right mouse button over the DataWindow control.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

Resize event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the DataWindow resize service's pfc_Resize event, if the service is enabled.

Usage

This event executes when the DataWindow control resizes, either because it is itself resizable or because it is registered as resizable with the window resize service.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

RetrieveEnd event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the linkage service's pfc_RetrieveEnd event, if the service is enabled.

Usage

This event executes when a retrieval process completes.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

RetrieveStart event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls the linkage service's pfc_RetrieveStart event, if the service is enabled.

Usage

This event executes when a retrieval process begins.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

RowFocusChanged event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Used by the linkage service, if enabled, to coordinate scrolling among the linkage chain.

Usage

This event executes when the DataWindow first displays and again when the user changes rows.

This event calls the n_cst_dwsrv_linkage pfc_RowFocusChanged event.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

SQLPreview event (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Calls SQL Spy functions, if enabled for the application.

Usage

This event executes just before accessing the database.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

u_dw

{button Events,JI(`>list_win',`id_pfcoref_361')} {button Instance variables,JI(`>list_win',`id_pfcoref_360')}

of_AcceptText function

of_CheckRequired function

of_GetParentWindow function

of_GetUpdateable function

of_IsRoot function

of_IsSharedProperty function

of_IsUpdateable function

of_MessageBox function

of_PostUpdate function

of_Reset function

of_Retrieve function

of_SetBase function

of_SetDropDownCalculator function

of_SetDropDownCalendar function

of_SetDropDownSearch function

of_SetFilter function

of_SetFind function

of_SetLinkage function

of_SetMultiTable function

of_SetPrintPreview function

of_SetProperty function

of_SetQuerymode function

of_SetReport function

of_SetReqColumn function

of_SetResize function

of_SetRowManager function

of_SetRowSelect function

of_SetSharedProperty function

of_SetSort function

of_SetTransObject function

of_SetUpdateable function

of_SetUpdateRequestor function

of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

U_dw includes precoded object functions to control DataWindow services:

of_AcceptText
of_CheckRequired
of_GetParentWindow
of_GetUpdateable
of_IsRoot
of_IsSharedProperty
of_IsUpdateable
of_MessageBox
of_PostUpdate
of_Reset
of_Retrieve
of_SetBase
of_SetDropDownCalculator
of_SetDropDownCalendar
of_SetDropDownSearch
of_SetFilter
of_SetFind
of_SetLinkage
of_SetMultiTable
of_SetPrintPreview
of_SetProperty
of_SetQuerymode
of_SetReport
of_SetReqColumn
of_SetResize
of_SetRowManager
of_SetRowSelect
of_SetSharedProperty
of_SetSort
of_SetTransObject
of_SetUpdateable
of_SetUpdateRequestor
of_Update
of_UpdatePrep
of_UpdatesPending
of_Validation

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_AcceptText function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_448')}

Description

Performs an AcceptText function for the DataWindow.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of u_dw
focusonerror	Boolean indicating whether PFC sets focus to the DataWindow when an error occurs (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_AcceptText function (u_dw)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_CheckRequired function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_450')}

Description

Determines if any required columns contain NULL values.

Access

Public

Syntax

instancename.**of_CheckRequired** (*buffer*, *row*, *column*, *colname*, *updateonly*)

Argument	Description
instancename	Instance name of u_dw
buffer	DWBuffer enumerated data type specifying the DataWindow buffer to check
row	Long specifying the first row to check and into which the function places the number of the row in error (passed by reference)
column	Integer specifying the first column to check and into which the function places the number of the column in error (passed by reference)
colname	String specifying the first column to check and into which the function places the name of the column in error (passed by reference)
updateonly	Boolean indicating whether to validate only those rows and columns that have changed (TRUE) or validate all rows and columns

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window.

Usage

The u_dw pfc_Validation event calls this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_CheckRequired function (u_dw)

This example is from the u_dw pfc_Validation event:

```
...

li_rc = &
        of_CheckRequired(Primary!, ll_checkrow, &
       li_checkcolumn, ls_checkcolname, &
          ib_updateonly)
...
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_GetParentWindow function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_452')}
```

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description

instancename	Instance name of u_dw
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window.

Usage

The u_dw GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetParentWindow function (u_dw)

This example is from the u_dw GetFocus event:

```
...

of_GetParentWindow(lw_parent)
If IsValid(lw_parent) Then
...
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetUpdateable function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Description

Obsolete. Call of_IsUpdateable instead.

Access

Public

Syntax

instancename.**of_GetUpdateable** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Boolean. Returns TRUE if the DataWindow is updatable and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_IsRoot function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_455')}

Description

Reports whether the DataWindow is a root DataWindow. A root DataWindow does not have a master DataWindow.

Access

Public

Syntax

instancename.**of_IsRoot** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Boolean. Returns TRUE if the DataWindow is a root and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_IsRoot function (u_dw)

This example calls the of_IsRoot function:

```
IF dw_1.of_IsRoot() THEN

        MessageBox("dw_1", "DW is a root")
ELSE
        MessageBox("dw_1", "DW is not a root")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_IsSharedProperty function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_457')}
```

Description

Reports whether the DataWindow shared property service is enabled.

Access

Public

Syntax

instancename.**of_IsSharedProperty** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Boolean. Returns TRUE if the DataWindow shared property service is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_IsSharedProperty function (u_dw)

This example calls the of_IsSharedProperty function:

```
IF dw_1.of_IsSharedProperty() THEN

        MessageBox("DW", "Shared property enabled")
ELSE
        MessageBox("DW", "Shared property disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_IsUpdateable function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_459')}
```

Description

Reports whether the DataWindow is updatable.

Access

Public

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Boolean. Returns TRUE if the DataWindow is updatable and FALSE if it is not.

Usage

The pfc_UpdatesPending event calls this function.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_IsUpdateable function (u_dw)

This example is from the pfc_UpdatesPending event:

```
...

IF NOT of_IsUpdateable( ) THEN
        Return 0
END IF
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_MessageBox function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_461')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_dw
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in DataWindow controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_MessageBox function (u_dw)

This example calls the of_MessageBox function:

```
of_Messagebox('dw_dberror','Save', &
```

```
    as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_PostUpdate function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_463')}

Description

Calls the pfc_PostUpdate event, which clears update flags and allows you to code additional post-update processing.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_PostUpdate function (u_dw)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_Reset function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_465')}

Description

Resets either a single DataWindow or all DataWindows in a linkage chain.

Access

Public

Syntax

instancename.**of_Reset** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Reset function (u_dw)

This example calls the of_Reset function:

```
...

dw_1.of_Reset()
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_Retrieve function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_467')}
```

Description

Retrieves rows for either a single DataWindow or all DataWindows in a linkage chain. This function calls the pfc_Retrieve event.

Access

Public

Syntax

instancename.**of_Retrieve** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns the number of rows retrieved if the function succeeds and -1 if an error occurs.

Usage

Call this function to retrieve rows in a DataWindow. You code the actual Retrieve function in the pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_Retrieve function (u_dw)

This example calls the of_Retrieve function:

```
dw_emplist.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetBase function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_469')}

Description

Enables or disables n_cst_dwsrv, which provides basic DataWindow services.

Access

Public

Syntax

instancename.**of_SetBase** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) basic DataWindow services

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv. This instance is named inv_base.

Because all DataWindow services are descendants of n_cst_dwsrv (and have n_cst_dwsrv functions available to them), use this object when you require basic DataWindow services only.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetBase function (u_dw)

This example calls the of_SetBase function to enable basic DataWindow services:

```
dw_employee.of_SetBase(TRUE)
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetDropDownCalculator function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_471')}

Description

Enables or disables u_calculator, which provides a dropdown calculator for registered columns.

Access

Public

Syntax

instancename.**of_SetDropDownCalculator** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown calculator service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Call this function to enable or disable the dropdown calculator. The u_dw instance variable for this service is iuo_calculator.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetDropDownCalculator function (u_dw)

This example calls the of_SetDropDownCalculator function to enable an instance of the dropdown calculator:

```
dw_employee.of_SetDropDownCalculator(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetDropDownCalendar function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_473')}

Description

Enables or disables u_calendar, which provides a dropdown calendar for registered columns.

Access

Public

Syntax

instancename.**of_SetDropDownCalendar** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown calendar service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Call this function to enable or disable the dropdown calendar. The u_dw instance variable for this service

is iuo_calendar.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetDropDownCalendar function (u_dw)

This example calls the of_SetDropDownCalendar function to enable an instance of the dropdown calendar:

```
dw_employee.of_SetDropDownCalendar(TRUE)
```

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_SetDropDownSearch function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_475')}

Description

Enables or disables n_cst_dwsrv_dropdownsearch, which provides dropdown DataWindow search services.

Access

Public

Syntax

instancename.**of_SetDropDownSearch** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown DataWindow search service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Call this function to enable or disable DropDownDataWindow search services. The u_dw instance variable for DropDownDataWindow search services is inv_dropdownsearch.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetDropDownSearch function (u_dw)

This example calls the of_SetDropDownSearch function to enable the dropdown DataWindow search service:

```
dw_employee.of_SetDropDownSearch(TRUE)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_SetFilter function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_477')}

Description

Controls or destroys an instance of n_cst_dwsrv_filter, which provides filtering services.

Access

Public

Syntax

instancename.**of_SetFilter** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the filter service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_filter. This instance is named inv_filter.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_SetFilter function (u_dw)

This example calls the of_SetFilter function to enable the filter service:

```
dw_employee.of_SetFilter(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetFind function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_479')}

Description

Enables or disables n_cst_dwsrv_find, which provides the DataWindow find service.

Access

Public

Syntax

instancename.**of_SetFind** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the DataWindow find service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Call this function to enable or disable the DataWindow find service. The u_dw instance variable for the DataWindow find service is inv_find.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetFind function (u_dw)

This example calls the of_SetFind function to enable the DataWindow find service:

```
dw_employee.of_SetFind(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetLinkage function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_481')}

Description

Enables or disables an instance of n_cst_dwsrv_linkage, which provides master/detail services.

Access

Public

Syntax

instancename.**of_SetLinkage** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the linkage service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_linkage. This instance is named inv_linkage.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_SetLinkage function (u_dw)

This example calls the of_SetLinkage function to enable the linkage service:

```
dw_employee.of_SetLinkage(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_SetMultiTable function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_483')}

Description

Enables or disables an instance of n_cst_dwsrv_multitable, which provides multitable update services.

Access

Public

Syntax

instancename.**of_SetMultiTable** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the multitable update service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_multitable. This instance is named inv_multitable.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_SetMultiTable function (u_dw)

This example calls the of_SetMultiTable function to enable the multitable update service:

```
dw_employee.of_SetMultiTable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetPrintPreview function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_485')}

Description

Enables or disables an instance of n_cst_dwsrv_printpreview, which provides the print preview service.

Access

Public

Syntax

instancename.**of_SetPrintPreview** (*boolean*)

Argument	Description

instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the print preview service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_printpreview. This instance is named inv_printpreview.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetPrintPreview function (u_dw)

This example calls the of_SetPrintPreview function to enable the print preview service:

```
dw_employee.of_SetPrintPreview(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetProperty function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_487')}

Description

Enables or disables an instance of n_cst_dwsrv_property, which provides the DataWindow property service.

Access

Public

Syntax

instancename.**of_SetProperty** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the DataWindow property service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_property. This instance is named inv_property.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetProperty function (u_dw)

This example calls the of_SetProperty function to enable the DataWindow property service:

```
dw_employee.of_SetProperty(TRUE)
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetQuerymode function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_489')}

Description

Enables or disables an instance of n_cst_dwsrv_querymode, which provides querymode services.

Access

Public

Syntax

instancename.**of_SetQuerymode** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the querymode service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_querymode. This instance is named inv_querymode.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetQuerymode function (u_dw)

This example calls the of_SetQuerymode function to enable the querymode service:

```
dw_employee.of_SetQuerymode(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetReport function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_491')}

Description

Enables or disables an instance of n_cst_dwsrv_report, which provides reporting services.

Access

Public

Syntax

instancename.**of_SetReport** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the report service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_report. This instance is named inv_report.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_SetReport function (u_dw)

This example calls the of_SetReport function to enable the reporting service:

```
dw_employee.of_SetReport(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetReqColumn function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_493')}

Description

Enables or disables an instance of n_cst_dwsrv_reqcolumn, which provides DataWindow required-field services.

Access

Public

Syntax

instancename.**of_SetReqColumn** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the required column service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_reqcolumn. This instance is named inv_reqcolumn.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetReqColumn function (u_dw)

This example calls the of_SetReqColumn function to enable the required column service:

```
dw_employee.of_SetReqColumn(TRUE)
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetResize function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_495')}

Description

Enables or disables an instance of n_cst_dwsrv_resize, which provides the DataWindow resize service.

Access

Public

Syntax

instancename.**of_SetResize** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the DataWindow resize service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_resize. This instance is named inv_resize.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_SetResize function (u_dw)

This example calls the of_SetResize function to enable the DataWindow resize service:

```
dw_employee.of_SetResize(TRUE)
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_SetRowManager function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_497')}

Description

Enables or disables an instance of n_cst_dwsrv_rowmanager, which provides row management services.

Access

Public

Syntax

instancename.**of_SetRowManager** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the row management service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_rowmanager. This instance is named inv_rowmanager.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_SetRowManager function (u_dw)

This example calls the of_SetRowManager function to enable the row management service:

```
dw_employee.of_SetRowManager(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_SetRowSelect function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_499')}

Description

Enables or disables an instance of n_cst_dwsrv_rowselection, which provides row-selection services.

Access

Public

Syntax

instancename.**of_SetRowSelect** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the row selection service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_rowselection. This instance is named

inv_rowselect.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetRowSelect function (u_dw)

This example calls the of_SetRowSelect function to enable the row selection service:

```
dw_employee.of_SetRowSelect(TRUE)
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetSharedProperty function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_501')}

Description

Enables or disables a shared instance of n_cst_dwsrv_property, which provides the DataWindow property service.

Access

Public

Syntax

instancename.**of_SetSharedProperty** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the DataWindow property service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy a shared instance of n_cst_dwsrv_property. This instance is named snv_property.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetSharedProperty function (u_dw)

This example calls the of_SetSharedProperty function to enable the DataWindow property service:

```
dw_employee.of_SetSharedProperty(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetSort function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_503')}

Description

Enables or disables an instance of n_cst_dwsrv_sort, which provides sorting services.

Access

Public

Syntax

instancename.**of_SetSort** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the sort service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_sort. This instance is named inv_sort.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_SetSort function (u_dw)

This example calls the of_SetSort function to enable the sort service:

```
dw_employee.of_SetSort(TRUE)
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_SetTransObject function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_505')}

Description

Sets the transaction object for either a single DataWindow or all DataWindows in a linkage chain. This function also initializes instance variables for use by DataWindow services.

Access

Public

Syntax

instancename.**of_SetTransObject** (*transaction*)

Argument	Description
instancename	Instance name of u_dw
transaction	N_tr variable specifying the Transaction object to use for the DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to establish a Transaction object for a DataWindow that uses DataWindow services.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetTransObject function (u_dw)

This example calls the of_SetTransObject function. It assumes you have associated n_tr with SQLCA in the Application painter:

```
dw_employee.of_SetTransObject(SQLCA)
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetUpdateable function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_507')}

Description

Specifies whether the DataWindow is updatable.

Access

Public

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of u_dw
boolean	Boolean indicating whether the DataWindow is updatable. All updatable DataWindows are included in w_master's default save processing

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to disable default save processing for DataWindows that are not updatable.

Shared DataWindows If your application uses shared data, be sure that only one of the DataWindows using the shared data is declared as updatable.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetUpdateable function (u_dw)

This example disables default save processing for the dw_report DataWindow:

```
dw_report.of_SetUpdateable(FALSE)
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetUpdateRequestor function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')} {button Examples,JI(`>Examples',`id_pfcoref_509')}

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of u_dw
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetUpdateRequestor function (u_dw)

This example is from the of_Update function:

```
...

Else
  If this.of_SetUpdateRequestor(apo_requestor) <0 Then
    Return FAILURE
  End If
  li_rc = this.of_Update(ab_accepttext, ab_resetflag)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_Update function (u_dw)

{button Object,JI(`>main',`cbbdcdfg')}

Updates either a single DataWindow or all DataWindows in a linkage chain. There are two syntaxes:

To	Use
Update data, optionally controlling update type	Syntax 1
Update data passing the requestor object	Syntax 2

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

Syntax 1 Update data, optionally controlling update type

Syntax 1 Update data, optionally controlling update type

{button Examples,JI(`>Examples',`id_pfcoref_512')}

Description

Updates rows in the DataWindow. With this syntax, you can optionally control the update types:

- Insert
- Update
- Delete

Access

Public

Syntax

instancename.**of_Update** (*accepttext*, *resetflags* {, *insert*, *update*, *delete* })

Argument	Description
instancename	Instance name of u_dw
accepttext	Boolean indicating whether the DataWindow should automatically perform an AcceptText before performing the update: TRUE—Perform AcceptText (default) FALSE—Do not perform AcceptText
resetflags	Boolean indicating whether *instancename* should automatically reset the update flags: TRUE—Reset the flags (default) FALSE—Do not reset the flags
insert (optional)	Boolean indicating whether to insert rows: TRUE—Insert rows (default) FALSE—Do not insert rows
update (optional)	Boolean indicating whether to modify changed rows: TRUE—Modify rows (default) FALSE—Do not modify rows
delete (optional)	Boolean indicating whether to delete rows: TRUE—Delete rows (default) FALSE—Do not delete rows

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the pfc_Update event.

For more information on update flags, see the Update function in the PowerScript Reference.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

Syntax 1 Update data, optionally controlling update type

This example calls the of_Update function:

```
Integer  li_return


li_return = dw_emp.of_Update(TRUE, TRUE)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

Syntax 2 Update data passing the requestor object

Syntax 2 Update data passing the requestor object

{button Examples,JI(`>Examples',`id_pfcoref_514')}

Description

Updates rows in the DataWindow, passing a reference to the requestor object.

Access

Public

Syntax

instancename.**of_Update** (*accepttext*, *resetflags*, *requestor*)

Argument	Description
instancename	Instance name of u_dw
accepttext	Boolean indicating whether the DataWindow should automatically perform an AcceptText before performing the update: TRUE—Perform AcceptText (default) FALSE—Do not perform AcceptText
resetflags	Boolean indicating whether *instancename* should automatically reset the update flags: TRUE—Reset the flags (default) FALSE—Do not reset the flags
requestor	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

Syntax 2 Update data passing the requestor object

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
```

```
        lpo_updaterequestor)
    If li_rc < 0 Then Return -1
    Continue
  End If
  ...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_UpdatePrep function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_516')}
```

Description

Perform update preparation for either a single DataWindow or all DataWindows in a linkage chain. This function calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_UpdatePrep function (u_dw)

This example is from the n_cst_luw of_UpdatePrep function:

```
  ...

  If lb_defined Then
    li_rc =  &
      lpo_tocheck.Function Dynamic of_UpdatePrep()
    If li_rc < 0 Then Return -1
    Continue
  End If
  ...
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_UpdatesPending function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_518')}
```

Description

Determines if there are updates pending for either a single DataWindow or all DataWindows in a linkage chain.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_UpdatesPending function (u_dw)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
        la_rc = lpo_tocheck.Dynamic of_UpdatesPending ()
...
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_Validation function (u_dw)

```
{button Object,JI(`>main',`cbbdcdfg')} {button
Examples,JI(`>Examples',`id_pfcoref_520')}
```

Description

Performs validation for either a single DataWindow or all DataWindows in a linkage chain.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of u_dw

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_Validation function (u_dw)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

u_em

```
{button See also,PI(`',`id_pfcoref_522')} {button
Functions,JI(`>list_win',`id_pfcoref_540')} {button
Events,JI(`>list_win',`id_pfcoref_524')} {button Instance
variables,JI(`>list_win',`id_pfcoref_523')}
```

Description

EditMask visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder EditMask. U_em event scripts provide integration with PFC menus. Additionally, u_em supports:

- **Cut, copy, paste, clear, and select all** These are triggered automatically by the message router.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the edit mask's Constructor event.
- **Autoselect** This means that text is selected when a user tabs to the edit mask. To disable autoselect, set ib_autoselect to FALSE in the edit mask's Constructor event.
- **Dropdown calculator** You can enable the display of u_calculator, the dropdown calculator, to enable enhanced input for numeric fields.
- **Dropdown calendar** You can enable the display of u_calendar, the dropdown calendar, to enable enhanced input for date fields.

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

u_em

m_edit

u_calculator

u_calendar

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

u_em

{button Functions,JI(`>list_win',`id_pfcoref_540')} {button Events,JI(`>list_win',`id_pfcoref_524')}

U_em has instance variables:

Instance variable	Description	Data type	Ancestry	Usage
ib_autoselect	Indicates whether PFC selects text when the control receives focus	Boolean	Protected	Set to FALSE to disable autoselect
ib_rmbmenu	Indicates whether the m_edit menu displays when the user presses the right mouse button	Boolean	Protected	Set to FALSE to disable right mouse button support
iuo_calculator	Reference variable for dropdown calculator	u_calculator	Public	Use in dot notation to access u_calculator events, functions, and attributes
iuo_calendar	Reference variable for dropdown calendar	u_calendar	Public	Use in dot notation to access u_calendar events, functions, and

attributes

Created with the Personal Edition of HelpNDoc: Free EPub producer

u_em

{button Functions,JI(`>list_win',`id_pfcoref_540')} {button Instance variables,JI(`>list_win',`id_pfcoref_523')}

- **ContextMenu event**
- **Destructor event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_DDCalculator event**
- **pfc_DDCalendar event**
- **pfc_Paste event**
- **pfc_PreRmbMenu event**
- **pfc_SelectAll event**
- **pfc_Undo event**
- **RButtonUp event**

U_em includes precoded events:

ContextMenu	pfc_DDCalendar
Destructor	pfc_Paste
GetFocus	pfc_PreRmbMenu
pfc_Clear	pfc_SelectAll
pfc_Copy	pfc_Undo
pfc_Cut	RButtonUp
pfc_DDCalculator	

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

ContextMenu event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_em.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

Destructor event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Destroys instances of u_calculator and u_calendar.

Usage

This event executes when the DataWindow closes.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

GetFocus event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

pfc_Clear event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Clear.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

pfc_Copy event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Copy.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

pfc_Cut event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Deletes selected text and stores it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Cut.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

pfc_DDCalculator event (u_em)

{button Object,JI(`>main',`bfcdjdhi')} {button Examples,JI(`>Examples',`id_pfcoref_532')}

Description

Displays the dropdown calculator.

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this event to display the dropdown calculator.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

pfc_DDCalculator event (u_em)

This example calls the pfc_DDCalculator event:

```
Integer  li_return


li_return = em_1.Event pfc_DDCalculator()
...
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

pfc_DDCalendar event (u_em)

```
{button Object,JI(`>main',`bfcdjdhi')} {button
Examples,JI(`>Examples',`id_pfcoref_534')}
```

Description

Displays the dropdown calendar.

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this event to display the dropdown calendar.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

pfc_DDCalendar event (u_em)

This example calls the pfc_DDCalendar event:

```
Integer  li_return


li_return = em_1.Event pfc_DDCalendar()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

pfc_Paste event (u_em)

```
{button Object,JI(`>main',`bfcdjdhi')}
```

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Paste.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

pfc_PreRmbMenu event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

User event allowing you to modify m_edit contents before display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_em
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Return value

None

Usage

Optionally add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_SelectAll event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Selects all text in the EditMask.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Select All.

This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

pfc_Undo event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Cancels the last change to the EditMask, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when an EditMask based on u_em has focus and the user selects Edit>Undo.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

RButtonUp event (u_em)

{button Object,JI(`>main',`bfcdjdhi')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_em.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

u_em

{button Events,JI(`>list_win',`id_pfcoref_524')} {button Instance variables,JI(`>list_win',`id_pfcoref_523')}

of_GetParentWindow function

of_MessageBox function

of_SetDropDownCalculator function

of_SetDropDownCalendar function

U_em includes precoded object functions:

of_GetParentWindow
of_MessageBox
of_SetDropDownCalculator
of_SetDropDownCalendar

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetParentWindow function (u_em)

{button Object,JI(`>main',`bfcdjdhi')} {button Examples,JI(`>Examples',`id_pfcoref_542')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_em
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_em GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetParentWindow function (u_em)

This example is from the u_em GetFocus event:

```
Window   lw_parent

IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_MessageBox function (u_em)

```
{button Object,JI(`>main',`bfcdjdhi')} {button
Examples,JI(`>Examples',`id_pfcoref_544')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_em
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in EditMasks.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_MessageBox function (u_em)

This example calls the of_MessageBox function:

```
of_Messagebox('em_error','Save', &

   as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_SetDropDownCalculator function (u_em)

```
{button Object,JI(`>main',`bfcdjdhi')} {button
Examples,JI(`>Examples',`id_pfcoref_546')}
```

Description

Enables or disables u_calculator, which provides a dropdown calculator.

Access

Public

Syntax

instancename.**of_SetDropDownCalculator** (*boolean*)

Argument	Description
instancename	Instance name of u_em
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown calculator service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable or disable the dropdown calculator. The u_em instance variable for this service is iuo_calculator.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_SetDropDownCalculator function (u_em)

This example calls the of_SetDropDownCalculator function to enable an instance of the dropdown calculator:

```
em_1.of_SetDropDownCalculator(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to

an ePub or Kindle eBook

of_SetDropDownCalendar function (u_em)

{button Object,JI(`>main',`bfcdjdhi')} {button Examples,JI(`>Examples',`id_pfcoref_548')}

Description

Enables or disables u_calendar, which provides a dropdown calendar for registered columns.

Access

Public

Syntax

instancename.**of_SetDropDownCalendar** (*boolean*)

Argument	Description
instancename	Instance name of u_em
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown calendar service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable or disable the dropdown calendar.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetDropDownCalendar function (u_em)

This example calls the of_SetDropDownCalendar function to enable an instance of the dropdown calendar:

```
em_1.of_SetDropDownCalendar(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

u_gbÀ

Description

GroupBox visual user object ancestor.

Ancestry

pfc_u_gb
└ u_gb
└ **No instance variables, events or functions**

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this visual object in windows instead of the standard PowerBuilder GroupBox.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

u_gr

{button See also,PI(`',`id_pfcoref_551')} {button Functions,JI(`>list_win',`id_pfcoref_554')} {button Events,JI(`>list_win',`id_pfcoref_552')}

Description

Graph visual user object.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual user object in windows instead of the standard PowerBuilder Graph control. U_gr scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

u_gr

w_master

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

u_gr

{button Functions,JI(`>list_win',`id_pfcoref_554')}

GetFocus event

U_gr includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

GetFocus event (u_gr)

{button Object,JI(`>main',`bfcbdgdg')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

u_gr

{button Events,JI(`>list_win',`id_pfcoref_552')}

of_GetParentWindow function

of_MessageBox function

U_gr includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_GetParentWindow function (u_gr)

{button Object,JI(`>main',`bfcbdgdg')} {button Examples,JI(`>Examples',`id_pfcoref_556')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_gr
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_gr GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetParentWindow function (u_gr)

This example is from the u_gr GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_MessageBox function (u_gr)

```
{button Object,JI(`>main',`bfcbdgdg')} {button
Examples,JI(`>Examples',`id_pfcoref_558')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_gr
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel!

- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Graph controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_MessageBox function (u_gr)

This example calls the of_MessageBox function:

```
of_Messagebox('gr_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

u_hpb

```
{button See also,PI(`',`id_pfcoref_560')} {button
Functions,JI(`>list_win',`id_pfcoref_563')} {button
Events,JI(`>list_win',`id_pfcoref_561')}
```

Description

HorizontalProgressBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder HorizonalProgressBar. U_hpb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

u_hpb

u_progressbar

u_vpb

w_master

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

u_hpb

{button Functions,JI(`>list_win',`id_pfcoref_563')}

GetFocus event

U_hpb includes one precoded event:

GetFocus

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

GetFocus event (u_hpb)

{button Object,JI(`>main',`babebfhh')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

u_hpb

{button Events,JI(`>list_win',`id_pfcoref_561')}

of_GetParentWindow function

of_MessageBox function

U_hpb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetParentWindow function (u_hpb)

{button Object,JI(`>main',`babebfhh')} {button Examples,JI(`>Examples',`id_pfcoref_565')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_hpb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_hpb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetParentWindow function (u_hpb)

This example is from the u_hpb GetFocus event:

```
Window  lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_MessageBox function (u_hpb)

{button Object,JI(`>main',`babebfhh')} {button Examples,JI(`>Examples',`id_pfcoref_567')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_hpb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in HorizontalProgressBars.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_MessageBox function (u_hpb)

This example calls the of_MessageBox function:

```
of_Messagebox('hpb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

u_hsb

```
{button See also,PI(`',`id_pfcoref_569')} {button
Functions,JI(`>list_win',`id_pfcoref_572')} {button
Events,JI(`>list_win',`id_pfcoref_570')}
```

Description

HorizontalScrollBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder HorizonalScrollBar. U_hsb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

u_hsb

w_master

u_vsb

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

u_hsb

{button Functions,JI(`>list_win',`id_pfcoref_572')}

GetFocus event

U_hsb includes one precoded event:

GetFocus

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with

HelpNDoc's WinHelp HLP to CHM conversion

GetFocus event (u_hsb)

{button Object,JI(`>main',`bfcbeadc')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

u_hsb

{button Events,JI(`>list_win',`id_pfcoref_570')}

of_GetParentWindow function

of_MessageBox function

U_hsb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetParentWindow function (u_hsb)

{button Object,JI(`>main',`bfcbeadc')} {button Examples,JI(`>Examples',`id_pfcoref_574')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_hsb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_hsb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help

Authoring Tool

of_GetParentWindow function (u_hsb)

This example is from the u_hsb GetFocus event:

```
Window  lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_MessageBox function (u_hsb)

```
{button Object,JI(`>main',`bfcbeadc')} {button
Examples,JI(`>Examples',`id_pfcoref_576')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_hsb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!

default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in HorizontalScrollBars.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_MessageBox function (u_hsb)

This example calls the of_MessageBox function:

```
of_Messagebox('hsb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

u_htb

```
{button See also,PI(`',`id_pfcoref_578')} {button
Functions,JI(`>list_win',`id_pfcoref_581')} {button
Events,JI(`>list_win',`id_pfcoref_579')}
```

Description

HorizontalTrackBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder HorizonalTrackBar. U_htb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

u_htb

w_master

u_vtb

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

u_htb

{button Functions,JI(`>list_win',`id_pfcoref_581')}

GetFocus event

U_htb includes one precoded event:

GetFocus

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

GetFocus event (u_htb)

{button Object,JI(`>main',`babcafdi')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

u_htb

{button Events,JI(`>list_win',`id_pfcoref_579')}

of_GetParentWindow function

of_MessageBox function

U_htb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetParentWindow function (u_htb)

{button Object,JI(`>main',`babcafdi')} {button Examples,JI(`>Examples',`id_pfcoref_583')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_htb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_htb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetParentWindow function (u_htb)

This example is from the u_htb GetFocus event:

```
Window  lw_parent


//Check for MicroHelp requirements.
IF gnv_app.of_GetMicrohelp() THEN
        //Notify the parent.
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_MessageBox function (u_htb)

```
{button Object,JI(`>main',`babcafdi')} {button
Examples,JI(`>Examples',`id_pfcoref_585')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_htb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in HorizontalTrackBars.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_MessageBox function (u_htb)

This example calls the of_MessageBox function:

```
of_Messagebox('htb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

u_lb

```
{button See also,PI(`',`id_pfcoref_587')} {button
Functions,JI(`>list_win',`id_pfcoref_592')} {button
Events,JI(`>list_win',`id_pfcoref_588')}
```

Description

ListBox visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual user object in windows instead of the standard PowerBuilder ListBox control. U_lb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

u_lb

w_master

u_ddlb

u_ddplb

u_plb

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

u_lb

{button Functions,JI(`>list_win',`id_pfcoref_592')}

GetFocus event

pfc_InvertSelection event

pfc_SelectAll event

U_lb includes precoded events:

GetFocus
pfc_SelectAll
pfc_InvertSelection

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

GetFocus event (u_lb)

{button Object,JI(`>main',`bfcdhbgh')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

pfc_InvertSelection event (u_lb)

{button Object,JI(`>main',`bfcdhbgh')}

Description

Inverts the rows selected in the ListBox. Unselected rows become selected; selected rows are unselected.

Return value

Integer. Returns the number of selected rows if the event succeeds and 0 if this is an invalid operation.

Usage

To use this event, add a menu item that uses the message router to call pfc_InvertSelection.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

pfc_SelectAll event (u_lb)

{button Object,JI(`>main',`bfcdhbgh')}

Description

Selects all rows in the ListBox.

Return value

Integer. Returns the number of selected rows if the event succeeds and 0 if this is an invalid operation.

Usage

The message router calls this event when the user selects Edit>Select All from the menu bar.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

u_lb

{button Events,JI(`>list_win',`id_pfcoref_588')}

of_GetParentWindow function

of_GetSelected function

of_MessageBox function

U_lb includes precoded object functions:

of_GetParentWindow
of_GetSelected
of_MessageBox

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetParentWindow function (u_lb)

{button Object,JI(`>main',`bfcdhbgh')} {button Examples,JI(`>Examples',`id_pfcoref_594')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_lb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_lb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_GetParentWindow function (u_lb)

This example is from the u_lb GetFocus event:

```
Window  lw_parent

IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
```

```
END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetSelected function (u_lb)

```
{button Object,JI(`>main',`bfcdhbgh')} {button
Examples,JI(`>Examples',`id_pfcoref_596')}
```

Description

Populates the passed structure object with the selected entries in the ListBox.

Access

Public

Syntax

instancename.**of_GetSelected** (*itemattrib*)

Argument	Description
instancename	Instance name of u_lb
itemattrib	N_cst_itemattrib array into which the function places text and an item index (passed by reference)

Return value

Integer. Returns the number of elements in the *itemattrib* array if the function succeeds and 0 if this is not a valid operation.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_GetSelected function (u_lb)

This example calls the of_GetSelected function:

```
n_cst_itemattrib   lnv_items[ ]

Integer  li_selected

li_selected = lb_list.of_GetSelected(lnv_items)
IF li_selected = 0 THEN
        MessageBox("LB", "Invalid LB operation")
        Return
END IF
// Logic to read lnv_items follows
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_MessageBox function (u_lb)

```
{button Object,JI(`>main',`bfcdhbgh')} {button
Examples,JI(`>Examples',`id_pfcoref_598')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_lb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in ListBoxes.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_MessageBox function (u_lb)

This example calls the of_MessageBox function:

```
of_Messagebox('lb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

u_lvs

```
{button See also,PI(`',`id_pfcoref_600')} {button
Functions,JI(`>list_win',`id_pfcoref_645')} {button
Events,JI(`>list_win',`id_pfcoref_602')} {button Instance
variables,JI(`>list_win',`id_pfcoref_601')}
```

Description

Service-based ListView visual user object ancestor. This object uses DataStores to display data in a ListView.

U_lvs is a self-updating object.

U_lvs replaces u_lv U_lv is the ListView control supported in earlier PFC versions. Although PFC still provides u_lv, it's best to use u_lvs.

Ancestry

pfc_u_lvs
u_lvs

Events

ColumnClick	pfc_NewItem	pfc_SelectAll
ContextMenu	pfc_Populate	pfc_SetItemAttributes
Destructor	pfc_PostUpdate	pfc_Undo
EndLabelEdit	pfc_PreDeleteItem	pfc_Update
GetFocus	pfc_PreInsertItem	pfc_UpdatePrep
KeyDown	pfc_PreRefreshItem	pfc_UpdatesPending
pfc_AcceptText	pfc_PreRMBMenu	pfc_Validation
pfc_AddAll	pfc_Properties	RButtonUp
pfc_AddItem	pfc_Refresh	RightClicked
pfc_DeleteItem	pfc_RefreshItem	Sort
pfc_InsertItem	pfc_RenameItem	
pfc_InvertSelection	pfc_Retrieve	

Functions

Public	of_AcceptText	Public	of_PostUpdate
Public	of_AddItem	Public	of_Reset
Public	of_CanUndo	Public	of_Retrieve
Public	of_GetColumnInfo	Public	of_SetAlwaysValidate
Public	of_GetInfo	Public	of_SetBase
Protected	of_GetObjects	Public	of_SetDataSource
Public	of_GetParentWindow	Public	of_SetLogicalUnitOfWork
Public	of_GetRow	Public	of_SetRMBMenu
Public	of_GetUpdateRequestor	Public	of_SetSort
Public	of_InsertItem	Public	of_SetUpdateable
Public	of_IsAlwaysValidate	Public	of_SetUpdateRequestor
Public	of_IsRMBMenu	Public	of_Update
Public	of_IsUpdateable	Public	of_UpdatePrep
Protected	of_MessageBox	Public	of_UpdatesPending
Public	of_Populate	Public	of_Validation

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master. U_lvs also uses:

m_lvs

n_cst_infoattrib

n_cst_luw

n_cst_lvsrv

n_cst_lvsrv_datasource

n_cst_lvsrv_sort

n_ds

Usage

Use this visual user object in windows instead of the standard PowerBuilder ListView control. U_lvs functions make it easy for you to populate a ListView from rows in a DataWindow. U_lvs event scripts also provide integration with PFC menus.

U_lvs includes right mouse button support. If the user clicks the right mouse button over a u_lvs-based ListView control, the m_lvs menu displays. M_lvs allows you to control ListView icon display.

To use u_lvs:

1 Place a u_lvs user object in your window.

2 In the window pfc_PreOpen event (or some other appropriate place), enable ListView services as needed by your application:

```
lv_1.of_SetDataSource(TRUE)

lv_1.of_SetSort(TRUE)
```

3 Specify sorting information:

```
String  ls_exclude[ ]

lv_1.inv_sort.of_SetColumnHeader(TRUE)
ls_exclude[1] = "emp_phone_number"
lv_1.inv_sort.of_SetExclude(ls_exclude)
```

4 Specify data source information:

```
Integer li_count

lv_1.inv_datasource.of_Register("emp_lname",  &
   "d_emplist", SQLCA)
li_count =  &
   lv_1.inv_datasource.of_RegisterReportColumn()
lv_1.inv_datasource.of_SetPictureColumn("1")
```

5 Populate the ListView with information from the registered data source:

```
lv_1.Event pfc_Populate()
```

6 Extend the pfc_Retrieve event to retrieve rows:

```
Any  la_args[20]

la_args[1] = "windows"    // Retrieval argument
this.of_Retrieve(la_args, ads_data)
```

7 Extend basic u_lvs functionality by adding PowerScript code to events and user events.

For more information on the ListView control, see the PowerBuilder User's Guide.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

u_lvs

m_lvs
n_ds
u_tvs

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

u_lvs

{button Functions,JI(`>list_win',`id_pfcoref_645')} {button Events,JI(`>list_win',`id_pfcoref_602')}

U_lvs includes instance variables:

Instance variable	Description	Data type	Access	Usage
CONTINUE_ACTION	Constant set to 1	Integer	Public	Internal
ib_alwaysvalidate	Controls whether the save process includes all objects in the validation process	Boolean	Protected	Set with of_SetAlwaysValidate (default is FALSE)
ib_isupdateable	Indicates whether the ListView can be updated	Boolean	Protected	Set with of_SetUpdateable (default is FALSE)
ib_rmbmenu	Controls right mouse button support	Boolean	Protected	Use to enable or disable right mouse button support (default is TRUE) Set with of_SetRMBMenu
il_rightclicked	Contains the handle of the right-clicked ListView item	Long	Protected	PFC uses this instance variable to track the right-clicked item
INSERT_AFTER	Constant set to "after"	String	Public	Internal
INSERT_BEFORE	Constant set to "before"	String	Public	Internal
INSERT_FIRST	Constant set to "first"	String	Public	Internal
INSERT_LAST	Constant set to "last"	String	Public	Internal
inv_base	Reference variable for basic ListView services	n_cst_lvsrv	Public	Use in dot notation to access n_cst_lvsrv functions and attributes
inv_datasource	Reference variable for the ListView data source service	n_cst_lvsrv_datasource	Public	Use in dot notation to access n_cst_lvsrv_datasource functions and attributes
inv_luw	Reference variable for logical unit of work service	n_cst_luw	Protected	Implements the save process
inv_sort	Reference variable for ListView sort service	n_cst_lvsrv_sort	Public	Use in dot notation to access n_cst_lvsrv_sort functions and attributes
ipo_pendingupdates[ ]	Objects that could be updated	PowerObject	Protected	Internal
ipo_updaterequestor	Owner of the save process	PowerObject	Protected	Internal
NO_ACTION	Constant set to 0	Integer	Public	Internal
PREVENT_ACTION	Constant set to 0	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

u_lvs

{button Functions,JI(`>list_win',`id_pfcoref_645')} {button Instance variables,JI(`>list_win',`id_pfcoref_601')}

- ColumnClick event
- ContextMenu event
- Destructor event
- EndLabelEdit event
- GetFocus event
- KeyDown event
- pfc_AcceptText event
- pfc_AddAll event
- pfc_AddItem event
- pfc_DeleteItem event
- pfc_InsertItem event
- pfc_InvertSelection event
- pfc_NewItem event
- pfc_Populate event
- pfc_PostUpdate event
- pfc_PreDeleteItem event
- pfc_PreInsertItem event
- pfc_PreRefreshItem event
- pfc_PreRmbMenu event
- pfc_Properties event
- pfc_Refresh event
- pfc_RefreshItem event
- pfc_RenameItem event
- pfc_Retrieve event
- pfc_SelectAll event
- pfc_SetItemAttributes event
- pfc_Undo event
- pfc_Update event
- pfc_UpdatePrep event
- pfc_UpdatesPending event
- pfc_Validation event
- RButtonUp event
- RightClicked event
- Sort event

U_lvs includes precoded event scripts:

ColumnClick
ContextMenu
Destructor
EndLabelEdit
GetFocus
KeyDown
pfc_AcceptText
pfc_AddAll
pfc_AddItem
pfc_DeleteItem
pfc_InsertItem
pfc_InvertSelection
pfc_NewItem
pfc_Populate
pfc_PostUpdate
pfc_PreDeleteItem
pfc_PreInsertItem
pfc_PreRefreshItem
pfc_PreRmbMenu
pfc_Properties
pfc_Refresh
pfc_RefreshItem
pfc_RenameItem
pfc_Retrieve
pfc_SelectAll
pfc_SetItemAttributes
pfc_Undo
pfc_Update
pfc_UpdatePrep
pfc_UpdatesPending
pfc_Validation
RButtonUp
RightClicked
Sort

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

ColumnClick event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Sorts the ListView contents, using the column whose heading was clicked. If the column is already sorted, this event reverses the sort order.

Usage

To use this event, n_cst_lvsrv_sort must be enabled. This event executes when the user clicks a ListView control's column heading.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

ContextMenu event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Displays the m_lvs popup menu.

Usage

This event executes when the user releases the right mouse button.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

Destructor event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Destroys all existing ListView service objects.

Usage

This event executes when the ListView is destroyed or the window closes.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

EndLabelEdit event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Updates the DataStore with user edits to the item label.

This function updates the DataStore only. You must update the database explicitly, using the of_Update or the n_cst_luw of_Save function.

Return value

Integer. Returns 0 if the label update is allowed and 1 if PowerBuilder should prevent the label update.

Usage

This event executes when the user finishes editing an item label.

PFC allows label update only when the associated label column is updatable. If the label column is a computed column, you must override this event or the n_cst_lvsrv_datasource pfc_EndLabelEdit event to update the computed column and return a 0.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

GetFocus event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

KeyDown event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Checks to see if the delete key was pressed.

Usage

This event executes when the user presses a key and is not editing a label.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

pfc_AcceptText event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Accepts text for the ListView control data source, optionally setting focus if an error occurs.

Syntax

instancename.EVENT **pfc_AcceptText** (*controls*, *focusonerror*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects on which to accept text. This argument is accessed through the *apo_control* argument
focusonerror	Boolean indicating whether focus should be set if an error occurs. This argument is accessed through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform additional accept text processing.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

pfc_AddAll event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_611')}

Description

Adds all rows in the passed DataStore to the ListView.

Syntax

*instancename.*EVENT **pfc_AddAll** (*data*)

Argument	Description
instancename	Instance name of u_lvs
data	N_ds-based DataStore containing rows to be added. This argument is accessed through the *ads_source* argument

Return value

Integer. Returns the number of items added if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_AddAll event (u_lvs)

This example is from the pfc_Refresh event:

. . .

```
inv_datasource.of_getdatasource(lds_source)
        return this.event pfc_AddAll(lds_source)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

pfc_AddItem event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_613')}
```

Description

Adds the specified row in the data source to the end of the ListView.

Syntax

*instancename.*EVENT **pfc_AddItem** (*data*, *row*)

Argument	Description
instancename	Instance name of u_lvs
data	N_ds-based DataStore containing rows to be added. This argument is accessed through the *ads_source* argument
row	Long specifying the row containing the data to be added to the ListView. This argument is accessed through the *al_row*argument

Return value

Long. Returns the ListView index of the new row if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

pfc_AddItem event (u_lvs)

This example is from the of_AddItem function:

```
...

li_newindex = this.event pfc_additem &
   (lds_datastore, ll_row)
...
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

pfc_DeleteItem event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_615')}
```

Description

Deletes the selected rows from the ListView and the DataStore.

Return value

Integer. Returns the number of rows deleted if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

pfc_DeleteItem event (u_lvs)

This example calls the pfc_DeleteItem event:

```
...

li_return = lv_1.Event pfc_DeleteItem()
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

pfc_InsertItem event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_617')}
```

Description

Inserts a new item into the ListView at the specified position.

Syntax

*instancename.*EVENT **pfc_InsertItem** (*datastore*, *row*, *position*, *item*)

Argument	Description
instancename	Instance name of u_lvs
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_lvsrv_datasource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_lvsrv_datasource. This argument is accessed through the *ads_source* argument
row	Long specifying the row containing the item. This argument is accessed through the *al_row*argument
position	String specifying the position or location in which to insert the new item. Valid values are: • First • Last • Before • After This argument is accessed through the *as_position* argument
item	Integer containing an index relative to the current position. The function uses this argument if you specify Before or After for *position*. This argument is accessed through the *ai_index* argument

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Usage

This event calls the pfc_SetItemAttributes and pfc_PreInsertItem events before inserting the item.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_InsertItem event (u_lvs)

This example is from the pfc_AddAll event:

```
...

For ll_row = 1 to ll_rowcount
        If this.event pfc_insertitem(ads_source,  &
      ll_row, "last", 0) < 1 then
       Return -1
        End If
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

pfc_InvertSelection event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Inverts the rows selected in the ListView. Unselected rows become selected; selected rows are unselected.

Return value

Integer. Returns the number of selected rows if the event succeeds and -1 if this is an invalid operation.

Usage

To use this event, add a menu item that uses the message router to call pfc_InvertSelection.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

pfc_NewItem event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event that you extend to add information to both the data source and the ListView.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

You typically use this event to open a dialog box prompting the user for complete information, adding it to the data source and the ListView (via the pfc_InsertItem event) when it closes.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

pfc_Populate event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_621')}

Description

Retrieves the data source and uses it to populate the ListView.

Return value

Integer. Returns the number of items added to the ListView if the event succeeds and -1 of an error occurs.

Usage

You must add code to the pfc_Retrieve event to retrieve the data.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_Populate event (u_lvs)

This example calls the pfc_Populate event:

```
String  ls_exclude[ ]

Integer li_count

// ListView Constructor event
this.of_SetDataSource(TRUE)
this.of_SetSort(TRUE)
this.inv_sort.of_SetColumnHeader(TRUE)
ls_exclude[1] = "emp_phone_number"
this.inv_sort.of_SetExclude(ls_exclude)
this.inv_datasource.of_Register("emp_lname",  &
   "d_emplist", SQLCA)
li_count =  &
   this.inv_datasource.of_RegisterReportColumn()
this.inv_datasource.of_SetPictureColumn("1")
this.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_PostUpdate event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')}
```

Description

Calls the n_cst_luw of_PostUpdate function to perform post-update processing on the specified controls.

Syntax

instancename.EVENT **pfc_PostUpdate** (*controls*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects on which to perform postupdate processing. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform additional post-update processing.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_PreDeleteItem event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event to which you add logic to perform predelete processing.

Syntax

instancename.EVENT **pfc_PreDeleteItem** (*index*)

Argument	Description
instancename	Instance name of u_lvs
index	Integer specifying the index of the ListView item to be deleted. This argument is accessed through the *ai_index* argument

Usage

The pfc_DeleteItem event calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_PreInsertItem event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event to which you add logic to perform pre-insert processing.

Syntax

instancename.Event **pfc_PreInsertItem** (*data*, *row*, *lvitem*)

Argument	Description
instancename	Instance name of u_lvs
data	N_ds containing the data for the new item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the new item. This argument is accessed through the *al_row*argument
lvitem	ListViewItem to be inserted. This argument is accessed through the *alvi_item* argument (passed by reference)

Usage

The pfc_InsertItem event calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

pfc_PreRefreshItem event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event to which you add logic that changes ListView item properties before a ListView item is refreshed.

Syntax

*instancename.*EVENT **pfc_PreRefreshItem** (*index*, *data*, *row*, *lvitem*)

Argument	Description
instancename	Instance name of u_lvs
index	Integer specifying the index of the refreshed item. This argument is accessed through the *ai_index* argument
data	N_ds containing the data for the refreshed item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the refreshed item. This argument is accessed through the *al_row*argument
lvitem	ListViewItem to be refreshed. This argument is accessed through the *alvi_item* argument (passed by reference)

Usage

The pfc_RefreshItem event calls this event.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

pfc_PreRmbMenu event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event allowing you to modify m_lvs contents before display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_lvs
editmenu	M_lvs variable containing the popup menu to be displayed (passed by reference)

Usage

Optionally add logic to this event to selectively enable and disable m_lvs menu items.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

pfc_Properties event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event to which you might add logic to display a Properties dialog.

Return value

Integer. Return 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_Refresh event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_629')}

Description

Refresh the ListView items with data from the data source.

Return value

Integer. Returns the number of items refreshed if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

pfc_Refresh event (u_lvs)

This example is from the pfc_Populate event:

```
...

If this.event pfc_refresh() <> 1 Then Return -3
...
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

pfc_RefreshItem event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_631')}
```

Description

Refreshes the specified ListView item, resetting all properties to the defaults specified in the data source.

Syntax

*instancename.*EVENT **pfc_RefreshItem** (*index*)

Argument	Description
instancename	Instance name of u_lvs
index	Integer specifying the ListView index of the item to refresh

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_RefreshItem event (u_lvs)

This example calls the pfc_RefreshItem event:

```
...

lv_1.Event pfc_RefreshItem(1)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

pfc_RenameItem event (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')}
```

Description

Renames the selected item.

Usage

To use this event, the Edit Labels property must be enabled for the ListView.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

pfc_Retrieve event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_634')}

Description

Retrieves rows into the ListView's data source.

Syntax

instancename.EVENT **pfc_Retrieve** (*datasource*)

Argument	Description
instancename	Instance name of u_lvs
datasource	N_ds into which rows are retrieved. This argument is accessed through the *ads_data* argument (passed by reference)

Return value

Long. Return the number of items retrieved if the event succeeds and -1 if an error occurs.

Usage

Add code to this event that calls the of_Retrieve function to retrieve rows for the data source.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

pfc_Retrieve event (u_lvs)

This example shows code you might add to the pfc_Retrieve event:

```
Any  la_args[20]


la_args[1] = "windows"    // Retrieval argument
this.of_Retrieve(la_args, ads_data)
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

pfc_SelectAll event (u_lvs)

`{button Object,JI(`>main',`bfcbggfh')}`

Description

Selects all rows in the ListView.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when the user selects Edit>Select All from the menu bar.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

pfc_SetItemAttributes event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Sets default properties for the ListView item before insertion.

Syntax

instancename.EVENT **pfc_SetItemAttributes** (*data*, *row*, *lvitem*)

Argument	Description
instancename	Instance name of u_lvs
data	N_ds containing the data for the item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the item. This argument is accessed through the *al_row*argument
lvitem	ListViewItem to be inserted. This argument is accessed through the *alvi_item* argument (passed by reference)

Usage

Optionally extend this event to change ListView item properties before insertion.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_Undo event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Cancels the last change to the ListView, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a ListView based on u_lvs has focus and the user selects Edit>Undo.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

pfc_Update event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Calls the n_cst_luw of_Update function to update the specified controls.

Syntax

instancename.EVENT **pfc_Update** (*controls*, *accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
accepttext	Boolean specifying whether n_cst_luw should automatically perform an AcceptText before performing the Update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether n_cst_luw should automatically reset DataWindow update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Update function calls this event.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

pfc_UpdatePrep event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event to which you can add code that prepares for update.

Syntax

instancename.EVENT **pfc_UpdatePrep** (*controls*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this function.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

pfc_UpdatesPending event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Determines if there are pending updates for the ListView.

Syntax

instancename.EVENT **pfc_UpdatesPending** (*controls*, *pending*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
pending	PowerObject array into which the event places objects with pending updates. This argument is accessed through the *apo_pending* argument (passed by reference)

Return value

Integer. Returns 1 if there are pending updates, 0 if there are no pending updates, and -1 if an error occurs.

Usage

This event is called by the of_GetUpdatesPending function.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

pfc_Validation event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Checks for required fields.

Syntax

instancename.EVENT **pfc_Validation** (*controls*)

Argument	Description
instancename	Instance name of u_lvs
controls	PowerObject array containing the objects to validate. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the of_Validation function.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

RButtonUp event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

RightClicked event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Tracks the clicked item and displays the m_lvs popup menu.

Usage

This event executes when the user presses the right mouse button.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

Sort event (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Description

Performs the sort comparison when the sort type is UserDefined!.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend the n_cst_lvsrv_sort pfc_Sort event to create site-specific sort logic.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

u_lvs

{button Events,JI(`>list_win',`id_pfcoref_602')} {button Instance variables,JI(`>list_win',`id_pfcoref_601')}

of_AcceptText function
of_AddItem function
of_CanUndo function
of_GetColumnInfo function
of_GetInfo function
of_GetObjects function
of_GetParentWindow function
of_GetRow function
of_GetUpdateRequestor function
of_InsertItem function
of_IsAlwaysValidate function
of_IsRMBMenu function
of_IsUpdateable function
of_MessageBox function
of_Populate function
of_PostUpdate function
of_Reset function

of_Retrieve function

of_SetAlwaysValidate function

of_SetBase function

of_SetDataSource function

of_SetLogicalUnitOfWork function

of_SetRMBMenu function

of_SetSort function

of_SetUpdateable function

of_SetUpdateRequestor function

of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

U_lvs includes precoded object functions:

of_AcceptText	of_PostUpdate
of_AddItem	of_Reset
of_CanUndo	of_Retrieve
of_GetInfo	of_SetAlwaysValidate
of_GetColumnInfo	of_SetBase
of_GetObjects	of_SetDataSource
of_GetParentWindow	of_SetLogicalUnitOfWork
of_GetRow	of_SetRMBMenu
of_GetUpdateRequestor	of_SetSort
of_InsertItem	of_SetUpdateable
of_IsAlwaysValidate	of_SetUpdateRequestor
of_IsRMBMenu	of_Update
of_IsUpdateable	of_UpdatePrep
of_MessageBox	of_UpdatesPending
of_Populate	of_Validation

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_AcceptText function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_647')}

Description

Performs an AcceptText function for the data source.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of u_lvs
focusonerror	Boolean indicating whether PFC sets focus to the first item in error when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_AcceptText function (u_lvs)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_AddItem function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_649')}
```

Description

Adds a new item to the end of the ListView control.

Access

Public

Syntax

instancename.**of_AddItem** (*rowinfo*)

Argument	Description
instancename	Instance name of u_lvs
rowinfo	Any array containing data for the row

Return value

Long. Returns the index of the added item if the functions succeeds and -1 if an error occurs.

Usage

If the information in *rowinfo* is not already in the data source, this function adds the new row to the data source. If you are using the ListView data source service, the data types of the elements in *rowinfo* must match those in the DataWindow object specified in the n_cst_lvsrv_datasource of_Register function.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_AddItem function (u_lvs)

This example calls the of_AddItem function:

```
Any  la_row[ ]


la_row[1] = 500
la_row[2] = "Nelsen"
la_row[3] = "Rodney"
lv_1.of_AddItem(la_row)
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_CanUndo function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_651')}
```

Description

Reports whether the ListView can undo the last edit, insertion, or deletion, returning the operation type.

Access

Public

Syntax

instancename.**of_CanUndo** (*undotype*)

Argument	Description
instancename	Instance name of u_lvs
undotype	String into which the function places the type of the last operation (passed by reference): • **"Edit"** Edit • **"Insert"** Insertion • **"Delete"** Deletion

Return value

Boolean. Returns TRUE if the last operation can be undone and FALSE if it cannot.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_CanUndo function (u_lvs)

This example calls the of_CanUndo function:

```
String  ls_undotype


IF lv_1.of_CanUndo(ls_undotype) THEN
   MessageBox("ListView", "Can undo")
ELSE
   MessageBox("ListView", "Cannot undo")
END IF
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_GetColumnInfo function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_653')}
```

Description

Retrieves column information from the ListView.

Access

Public

Syntax

instancename.**of_GetColumnInfo** (*column*, *colattrib*)

Argument	Description
instancename	Instance name of the u_lvs-based ListView control
column	Integer specifying the column from the ListView
colattrib	N_cst_columnattrib into which the function places column information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Column information is used in detail view only.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetColumnInfo function (u_lvs)

This example calls the of_GetColumnInfo:

```
n_cst_columnattrib  lnv_colinfo


lv_1.of_GetColumnInfo(3, lnv_colinfo)
...
```

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_GetInfo function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_655')}
```

Description

Retrieves object information.

Access

Public

Syntax

instancename.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of u_lvs
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetInfo function (u_lvs)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


lv_1.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetObjects function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_657')}
```

Description

Retrieves the objects to be updated.

Access

Protected

Syntax

instancename.**of_GetObjects** (*objects*)

Argument	Description
instancename	Instance name of u_lvs
objects	PowerObject array into which the function places objects to be updated (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help

Authoring Tool

of_GetObjects function (u_lvs)

This example is from the of_AcceptText function:

```
...

Else
    this.of_Getobjects(lpo_updatearray)
End If
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_GetParentWindow function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_659')}
```

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_lvs
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_lvs GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_GetParentWindow function (u_lvs)

This example is from the u_lvs GetFocus event:

```
Window    lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
```

```
            pfc_ControlGotFocus (this)
          END IF
  END IF
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetRow function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_661')}
```

Description

Retrieves the DataStore and DataStore row for the specified ListView index.

Access

Public

Syntax

instancename.**of_GetRow** (*index*, *data*, *row*)

Argument	Description
instancename	Instance name of u_lvs
index	Integer specifying the index for the row to be retrieved
data	N_ds into which the function places a reference to the DataStore (passed by reference)
row	Long into which the function places the row number that corresponds to *index* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_GetRow function (u_lvs)

This example calls the of_GetRow function:

```
n_ds  lds_data

Long  ll_row

lv_1.of_GetRow(1, lds_data, ll_row)
MessageBox("ListView",  &
   "DataObject is: " + lds_data.DataObject  &
   + " Row is: " + String(ll_row))
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetUpdateRequestor function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')}
```

Description

Retrieves a reference to the object requesting an update.

Access

Public

Syntax

instancename.**of_GetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of u_lvs
requestor	PowerObject into which the function places a reference to the object requesting the update (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if there is no update requestor, and -1 if an error occurs.

Usage

Call this function if you are extending the pfc_Save process and need to access the update requestor.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_InsertItem function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')}

Inserts an item into the ListView. There are two syntaxes:

To	Use
Insert from a DataStore	Syntax 1
Insert from an array	Syntax 2

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

Syntax 1 Insert an item from a DataStore

Syntax 1 Insert an item from a DataStore

{button Examples,JI(`>Examples',`id_pfcoref_665')}

Description

Adds a new item to the ListView using a row from a DataStore.

Access

Public

Syntax

instancename.**of_InsertItem** (*datastore*, *row* {, *position*, *index* })

Argument	Description
instancename	Instance name of u_lvs
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_lvsrv_datasource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_lvsrv_datasource (passed by reference)
row	Long specifying the row containing data for the new item

position (optional)	String specifying the position under the current parent in which to insert the new item. Valid values are: • First • Last (default) • Before • After
index (optional)	Integer containing an index relative to the current position. The function uses this argument if you specify Before or After for *position*

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

Syntax 1 Insert an item from a DataStore

This example calls the of_InsertItem function:

```
Long  ll_row


ll_row = ids_data.GetRow()
lv_1.of_InsertItem(ids_data, ll_row)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

Syntax 2 Insert an item from an array

Syntax 2 Insert an item from an array

```
{button Examples,JI(`>Examples',`id_pfcoref_667')}
```

Description

Adds a new item to the ListView using a value from an array.

Access

Public

Syntax

instancename.**of_InsertItem** (*colvalues* {, *position*, *index* })

Argument	Description
instancename	Instance name of u_lvs
colvalues	Any array containing data for the ListView
position (optional)	String specifying the position or location in which to insert the new item. Valid values are: • First • Last (default) • Before • After
index (optional)	Integer containing an index relative to the current position. The function uses this argument if you specify Before or After for *position*

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

Syntax 2 Insert an item from an array

This example calls the of_InsertItem function:

```
Any  la_row[ ]


la_row[1] = 500
la_row[2] = "Nelsen"
la_row[3] = "Rodney"
lv_1.of_InsertItem(la_row, "First", 0)
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_IsAlwaysValidate function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_669')}
```

Description

Reports whether the default save process always performs validation.

Access

Public

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Boolean. Returns TRUE if the default save process always performs validation and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_IsAlwaysValidate function (u_lvs)

This example calls the of_IsAlwaysValidate function:

```
IF lv_1.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("LV", "Always validate")
ELSE
   MessageBox("LV", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsRMBMenu function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_671')}
```

Description

Reports whether the popup menu is enabled.

Access

Public

Syntax

instancename.**of_IsRMBMenu** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Boolean. Returns TRUE if the m_lvs popup menu is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_IsRMBMenu function (u_lvs)

This example calls the of_IsRMBMenu function:

```
IF lv_1.of_IsRMBMenu() = TRUE THEN

   MessageBox("LV", "RMB enabled")
ELSE
   MessageBox("LV", "RMB disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_IsUpdateable function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_673')}
```

Description

Reports whether the ListView's data source is updatable and should be included in a window's default save processing.

Access

Public

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Boolean. Returns TRUE if the ListView's data source is updatable and FALSE if it is not.

Usage

The pfc_UpdatesPending event calls this function.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_IsUpdateable function (u_lvs)

This example is from the pfc_UpdatesPending event:

```
...

If Not of_IsUpdateable() Then Return NO_UPDATESPENDING
...
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_MessageBox function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_675')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_lvs
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel!

- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in ListViews.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_MessageBox function (u_lvs)

This example calls the of_MessageBox function:

```
of_Messagebox('lv_error','Save', &

   as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_Populate function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_677')}
```

Description

Retrieves the data source and populates a ListView.

Access

Public

Syntax

instancename.**of_Populate** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns the number of items added if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Populate function (u_lvs)

The example is from the pfc_Populate event:

```
Return of_populate()
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_PostUpdate function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_679')}

Description

Calls the pfc_PostUpdate event, which clears update flags and allows you to code additional post-update processing.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_PostUpdate function (u_lvs)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_Reset function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_681')}
```

Description

Deletes all items from both the ListView and the data source.

Access

Public

Syntax

instancename.**of_Reset** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_Reset function (u_lvs)

This example calls the of_Reset function:

```
lv_1.of_Reset()
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_Retrieve function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_683')}

Description

Retrieves rows into a DataStore.

Syntax

instancename.EVENT **of_Retrieve** (*args*, *data*)

Argument	Description
instancename	Instance name of u_lvs
args	20-element Any array specifying retrieval arguments
data	N_ds into which the function places the retrieved rows (passed by reference)

Return value

Long. Returns the number of items retrieved if the function succeeds, 0 if no action was taken, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Retrieve function (u_lvs)

This example (from a pfc_Retrieve event) calls the of_Retrieve function:

```
Long  ll_count

Any  la_args[20]

ll_count = this.of_Retrieve(la_args, ads_data)
Return ll_count
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_SetAlwaysValidate function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_685')}

Description

Specifies whether the default save process always performs validation.

Access

Public

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether the default save process always perform validation (TRUE) or only performs validation if a control has pending updates

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetAlwaysValidate function (u_lvs)

This example calls the of_SetAlwaysValidate function:

```
lv_1.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetBase function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_687')}

Description

Enables or disables n_cst_lvsrv, which provides basic ListView services.

Access

Public

Syntax

instancename.**of_SetBase** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) basic ListView services

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_lvsrv. This instance is named inv_base.

Because all ListView services are descendants of n_cst_lvsrv (and have n_cst_lvsrv functions available to them), use this object when you require basic ListView services only.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_SetBase function (u_lvs)

This example calls the of_SetBase function to enable basic ListView services:

```
lv_1.of_SetBase(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetDataSource function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_689')}

Description

Enables or disables n_cst_lvsrv_datasource, which provides data access for ListViews.

Access

Public

Syntax

instancename.**of_SetDataSource** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_lvsrv_datasource

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_lvsrv_datasource. This instance is named inv_datasource.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SetDataSource function (u_lvs)

This example calls the of_SetDataSource function:

```
lv_1.of_SetDataSource(TRUE)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetLogicalUnitOfWork function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_691')}

Description

Enables or disables n_cst_luw, which provides the logical unit of work service.

Access

Public

Syntax

instancename.**of_SetLogicalUnitOfWork** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_luw

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_luw. This instance is named inv_luw. If you do not enable n_cst_luw, u_lvs enables it automatically.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_SetLogicalUnitOfWork function (u_lvs)

This example calls the of_SetLogicalUnitOfWork function:

```
lv_1.of_SetLogicalUnitOfWork(TRUE)
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help

Authoring Tool

of_SetRMBMenu function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_693')}

Description

Enables or disables right mouse button support for m_lvs, the ListView popup menu.

Access

Public

Syntax

instancename.**of_SetRMBMenu** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) right mouse button support

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetRMBMenu function (u_lvs)

This example calls the of_SetRMBMenu function:

```
lv_1.of_SetRMBMenu(TRUE)
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetSort function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_695')}

Description

Enables or disables n_cst_lvsrv_sort, which provides the ListView sort service.

Access

Public

Syntax

instancename.**of_SetSort** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the ListView sort service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_lvsrv_sort. This instance is named inv_sort.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetSort function (u_lvs)

This example calls the of_SetSort function:

```
lv_1.of_SetSort(TRUE)
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_SetUpdateable function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_697')}

Description

Specifies whether the ListView is updatable and should be included in the default save process.

Access

Public

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of u_lvs
boolean	Boolean indicating whether the ListView is updatable. All updatable ListViews are included in the default save processing

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable default save processing for ListViews (by default, they are not updatable).

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_SetUpdateable function (u_lvs)

This example calls the of_SetUpdateable function:

```
lv_1.of_SetUpdateable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetUpdateRequestor function (u_lvs)

{button Object,JI(`>main',`bfcbggfh')} {button Examples,JI(`>Examples',`id_pfcoref_699')}

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of u_lvs
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SetUpdateRequestor function (u_lvs)

This example calls the of_SetUpdateRequestor function:

```
...

lv_1.of_SetUpdateRequestor(lv_1)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_Update function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_701')}
```

Description

Saves all rows in the DataStore associated with the ListView.

Access

Public

Syntax

instancename.**of_Update** (*accept*, *resetflag* {, *requestor* })

Argument	Description
instancename	Instance name of u_lvs
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags
requestor	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the update succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_Update function (u_lvs)

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext, ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_UpdatePrep function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_703')}
```

Description

Calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_UpdatePrep function (u_lvs)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep ()
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_UpdatesPending function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_705')}
```

Description

Determines if there are updates pending in the ListView.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_UpdatesPending function (u_lvs)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
    la_rc = lpo_tocheck.Dynamic of_UpdatesPending()
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_Validation function (u_lvs)

```
{button Object,JI(`>main',`bfcbggfh')} {button
Examples,JI(`>Examples',`id_pfcoref_707')}
```

Description

Performs validation on the ListView data source.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of u_lvs

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_Validation function (u_lvs)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

u_mle

```
{button See also,PI(`',`id_pfcoref_709')} {button
Functions,JI(`>list_win',`id_pfcoref_722')} {button
Events,JI(`>list_win',`id_pfcoref_711')} {button Instance
variables,JI(`>list_win',`id_pfcoref_710')}
```

Description

MultiLineEdit visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder MultiLineEdit. U_mle event scripts provide integration with PFC menus. Additionally, u_mle supports:

- **Cut, copy, paste, clear, and select all** These are triggered automatically by the message router.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the MultiLineEdit's Constructor event.
- **Autoselect** This means that text is selected when a user tabs to the edit mask. To disable autoselect, set ib_autoselect to FALSE in the MultiLineEdit's Constructor event.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

u_mle

m_edit

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

u_mle

{button Functions,JI(`>list_win',`id_pfcoref_722')} {button Events,JI(`>list_win',`id_pfcoref_711')}

U_mle includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autoselect	Indicates whether PFC selects text	Boolean	Protected	Set this to TRUE to enable autoselect (default

	automatically when the control receives focus			is FALSE)
ib_rmbmenu	Indicates whether the m_edit menu displays when the user presses the right mouse button	Boolean	Protected	Set this to FALSE to disable right mouse button support (default is TRUE)

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

u_mle

{button Functions,JI(`>list_win',`id_pfcoref_722')} {button Instance variables,JI(`>list_win',`id_pfcoref_710')}

- **ContextMenu event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_Paste event**
- **pfc_PreRmbMenu event**
- **pfc_SelectAll event**
- **pfc_Undo event**
- **RButtonUp event**

U_mle includes precoded events:

ContextMenu	pfc_Paste
GetFocus	pfc_PreRmbMenu
pfc_Clear	pfc_SelectAll
pfc_Copy	pfc_Undo
pfc_Cut	RButtonUp

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

ContextMenu event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_mle.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

GetFocus event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

pfc_Clear event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Clear from the menu bar.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_Copy event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Copy from the menu bar. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

pfc_Cut event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Deletes selected text and stored it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Cut from the menu bar. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_Paste event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Paste from the menu bar. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

pfc_PreRmbMenu event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

User event allowing you to modify m_edit contents before display.

Syntax

instancename.EVENT **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_mle
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Usage

Add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

pfc_SelectAll event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Selects all text in the MultiLineEdit.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Select All from the menu bar. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

pfc_Undo event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Cancels the last change to the MultiLineEdit, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds 0 and -1 if an error occurs.

Usage

The message router calls this event when a MultiLineEdit based on u_mle has focus and the user selects Edit>Undo.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

RButtonUp event (u_mle)

{button Object,JI(`>main',`bfcecdbd')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_mle.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

u_mle

{button Events,JI(`>list_win',`id_pfcoref_711')} {button Instance variables,JI(`>list_win',`id_pfcoref_710')}

of_GetParentWindow function

of_MessageBox function

U_mle includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_GetParentWindow function (u_mle)

{button Object,JI(`>main',`bfcecdbd')} {button Examples,JI(`>Examples',`id_pfcoref_724')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_mle
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window.

Usage

The u_mle GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetParentWindow function (u_mle)

This example is from the u_mle GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event pfc_ControlGotFocus &
          (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_MessageBox function (u_mle)

```
{button Object,JI(`>main',`bfcecdbd')} {button
Examples,JI(`>Examples',`id_pfcoref_726')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_mle
id	String specifying an ID for the message

title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in MultiLineEdits.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_MessageBox function (u_mle)

This example calls the of_MessageBox function:

```
of_Messagebox('mle_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

u_oc

```
{button See also,PI(`',`id_pfcoref_728')} {button
Functions,JI(`>list_win',`id_pfcoref_744')} {button
Events,JI(`>list_win',`id_pfcoref_730')} {button Instance
variables,JI(`>list_win',`id_pfcoref_729')}
```

Description

OLE visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder OLE 2.0 window control. U_oc event scripts provide integration with PFC menus. Additionally, u_oc supports:

- **Cut, copy, paste, paste special, clear, and select all** These are triggered automatically by the message router.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the OLE control's Constructor event.
- **Object actions** U_oc provides events to activate the object (inplace and offsite), update links, and insert an object into the OLE control.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

u_oc

m_oc

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

u_oc

{button Functions,JI(`>list_win',`id_pfcoref_744')} {button Events,JI(`>list_win',`id_pfcoref_730')}

U_oc contains one instance variable:

Instance variable	Description	Data type	Ancestry	Usage
ib_rmbmenu	Indicates whether the m_oc menu displays when the user presses	Boolean	Protected	Set this to FALSE to disable right mouse button support

the right mouse button

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

u_oc

{button Functions,JI(`>list_win',`id_pfcoref_744')} {button Instance variables,JI(`>list_win',`id_pfcoref_729')}

- **ContextMenu event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_EditObject event**
- **pfc_InsertObject event**
- **pfc_OpenObject event**
- **pfc_Paste event**
- **pfc_PasteSpecial event**
- **pfc_PreRmbMenu event**
- **pfc_UpdateLinks event**
- **RButtonUp event**

U_oc includes precoded events:

- ContextMenu
- GetFocus
- pfc_Clear
- pfc_Copy
- pfc_Cut
- pfc_EditObject
- pfc_InsertObject
- pfc_OpenObject
- pfc_Paste
- pfc_PasteSpecial
- pfc_PreRmbMenu
- pfc_UpdateLinks
- RButtonUp

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

ContextMenu event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Displays the m_oc popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_oc.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

GetFocus event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_Clear event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Deletes the OLE object.

Return value

Integer. Returns 0 if the event succeeds and -9 if an error occurs.

Usage

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Clear from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

pfc_Copy event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Copies the OLE object to the clipboard.

Return value

Integer. Returns one of the following values:

0 Success

-1 Container is empty

-2 Copy failed

-9 Other error

Usage

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Copy from a menu that descends from the PFC m_master menu. This event is also called by the m_oc popup menu.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

pfc_Cut event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Deletes the selected item or text and stores it on the clipboard.

Return value

Integer. Returns values as follows:

-1 Container is empty

-2 Cut failed

-9 Other error

Usage

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Cut. This event is also called by the m_oc popup menu.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_EditObject event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Activates the object in place.

Return value

Integer. Returns values as follows:

0 Success

-1 Control is empty

-2 Invalid verb for the object

-3 Verb not implemented by the object

-4 No verbs supported by the object

-5 Object can't execute the verb now

-9 Other error

Usage

Call this event to activate an object in-place.

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Object>Edit from a menu that descends from the PFC m_master menu. This event is also called by the m_oc popup menu.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_InsertObject event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Displays the Insert Object dialog box, which allows you to insert an object into the OLE control.

Return value

Integer. Returns values as follows:

0 Success

1 The user canceled out of the dialog box

-9 Other error

Usage

Call this event to insert an object into the OLE control.

The message router triggers this event when an OLE control based on u_oc has focus and the user selects Edit>Insert Object from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

pfc_OpenObject event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Activates the object offsite.

Return value

Integer. Returns values as follows:

0 Success

-1 Control is empty

-2 Invalid verb for the object

-3 Verb not implemented by the object

-4 No verbs supported by the object

-5 Object can't execute the verb now

-9 Other error

Usage

Call this event to activate an object offsite.

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Object>Open from a menu that descends from the PFC m_master menu. This event is also called by the m_oc popup menu.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_Paste event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns values as follows:

0 Success

-1 No data or clipboard contents cannot be embedded

-9 Other error

Usage

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Paste from a menu that descends from the PFC m_master menu. This event is also called by the m_oc popup menu.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_PasteSpecial event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Displays a standard OLE 2.0 dialog box allowing the user to choose whether to embed or link the OLE object on the clipboard when pasting it in the specified control. Embedding is the equivalent of calling the Paste function and linking is the same as calling PasteLink.

Return value

Integer. Returns values as follows:

0 Success

1 User canceled out of the OLE 2.0 dialog box

-1 No data found

-9 Other error

Usage

The message router calls this event when an OLE control based on u_oc has focus and the user selects Edit>Paste Special from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

pfc_PreRmbMenu event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

User event allowing you to modify m_oc contents prior to display.

Syntax

instancename.Event **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_oc
editmenu	M_oc variable containing the popup menu to be displayed (passed by reference)

Usage

Optionally add logic to this event to selectively enable and disable m_oc menu items.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_UpdateLinks event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Attempts to find a file linked to an OLE container. If the linked file is not found, a dialog tells the user and lets them bring up a second dialog for find the file or changing the link.

Return value

Integer. Returns 0 if the event succeeds and -1 if an error occurs.

Usage

Call this event to update links for an OLE control.

The message router triggers this event when an OLE control based on u_oc has focus and the user selects Edit>Update Links from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

RButtonUp event (u_oc)

{button Object,JI(`>main',`bfccjaic')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_oc.

Created with the Personal Edition of HelpNDoc: Free EPub producer

u_oc

{button Events,JI(`>list_win',`id_pfcoref_730')} {button Instance variables,JI(`>list_win',`id_pfcoref_729')}

of_GetParentWindow function

of_MessageBox function

U_oc includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetParentWindow function (u_oc)

{button Object,JI(`>main',`bfccjaic')} {button Examples,JI(`>Examples',`id_pfcoref_746')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_oc
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window.

Usage

The u_oc GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_GetParentWindow function (u_oc)

This example is from the u_oc GetFocus event:

```
Window   lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event pfc_ControlGotFocus &
          (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_MessageBox function (u_oc)

```
{button Object,JI(`>main',`bfccjaic')} {button
Examples,JI(`>Examples',`id_pfcoref_748')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_oc
id	String specifying an ID for the message
title	String specifying the title of the OLEControl
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information!

- StopSign!
- Exclamation!
- Question!
- None!

button Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in OLE controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_MessageBox function (u_oc)

This example calls the of_MessageBox function:

```
of_Messagebox('oc_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

u_p

```
{button See also,PI(`',`id_pfcoref_750')} {button
Functions,JI(`>list_win',`id_pfcoref_753')} {button
Events,JI(`>list_win',`id_pfcoref_751')}
```

Description

Picture visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder Picture control. U_p event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

u_p

u_pb

u_phl

u_plb

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

u_p

{button Functions,JI(`>list_win',`id_pfcoref_753')}

GetFocus event

U_p includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

GetFocus event (u_p)

{button Object,JI(`>main',`bfcdbhbf')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

u_p

{button Events,JI(`>list_win',`id_pfcoref_751')}

of_GetParentWindow function

of_MessageBox function

U_p includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_GetParentWindow function (u_p)

{button Object,JI(`>main',`bfcdbhbf')} {button Examples,JI(`>Examples',`id_pfcoref_755')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_p
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_p GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetParentWindow function (u_p)

This example is from the u_p GetFocus event:

```
Window    lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus(this)
```

```
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_MessageBox function (u_p)

```
{button Object,JI(`>main',`bfcdbhbf')} {button
Examples,JI(`>Examples',`id_pfcoref_757')}
```

Description

Displays a MessageBox

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_p
id	String specifying an ID for the message
title	String specifying the title of the Picture control
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Picture controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_MessageBox function (u_p)

This example calls the of_MessageBox function:

```
of_Messagebox('p_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

u_pb

```
{button See also,PI(`',`id_pfcoref_759')} {button
Functions,JI(`>list_win',`id_pfcoref_762')} {button
Events,JI(`>list_win',`id_pfcoref_760')}
```

Description

PictureButton visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder PictureButton control. U_pb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

u_pb

u_cb

u_p

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

u_pb

{button Functions,JI(`>list_win',`id_pfcoref_762')}

GetFocus event

U_pb includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

GetFocus event (u_pb)

{button Object,JI(`>main',`bfcbbaha')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

u_pb

{button Events,JI(`>list_win',`id_pfcoref_760')}

of_GetParentWindow function

of_MessageBox function

U_pb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_GetParentWindow function (u_pb)

{button Object,JI(`>main',`bfcbbaha')} {button Examples,JI(`>Examples',`id_pfcoref_764')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_pb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_pb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetParentWindow function (u_pb)

This example is from the u_pb GetFocus event:

```
Window   lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_MessageBox function (u_pb)

```
{button Object,JI(`>main',`bfcbbaha')} {button
Examples,JI(`>Examples',`id_pfcoref_766')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_pb
id	String specifying an ID for the message
title	String specifying the title of the PictureButton
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in PictureButtons.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_MessageBox function (u_pb)

This example calls the of_MessageBox function:

```
of_Messagebox('pb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

u_phl

```
{button See also,PI(`',`id_pfcoref_768')} {button
Functions,JI(`>list_win',`id_pfcoref_771')} {button
Events,JI(`>list_win',`id_pfcoref_769')}
```

Description

PictureHyperlink visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder PictureHyperlink control. U_phl event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

u_phl

u_p

u_sth

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

u_phl

{button Functions,JI(`>list_win',`id_pfcoref_771')}

GetFocus event

U_phl includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

GetFocus event (u_phl)

{button Object,JI(`>main',`babcahcj')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

u_phl

{button Events,JI(`>list_win',`id_pfcoref_769')}

of_GetParentWindow function

of_MessageBox function

U_phl includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetParentWindow function (u_phl)

{button Object,JI(`>main',`babcahcj')} {button Examples,JI(`>Examples',`id_pfcoref_773')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_phl
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_phl GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_GetParentWindow function (u_phl)

This example is from the u_phl GetFocus event:

```
Window   lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_MessageBox function (u_phl)

```
{button Object,JI(`>main',`babcahcj')} {button
Examples,JI(`>Examples',`id_pfcoref_775')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_phl
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior for PictureHyperlink controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_MessageBox function (u_phl)

This example calls the of_MessageBox function:

```
of_Messagebox('phl_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

u_plb

```
{button See also,PI(`',`id_pfcoref_777')} {button
Functions,JI(`>list_win',`id_pfcoref_782')} {button
Events,JI(`>list_win',`id_pfcoref_778')}
```

Description

PictureListBox user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder PictureListBox. U_plb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

u_plb

u_lb

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

u_plb

{button Functions,JI(`>list_win',`id_pfcoref_782')}

GetFocus event

pfc_InvertSelection event

pfc_SelectAll event

U_plb includes precoded events:

GetFocus

pfc_SelectAll

pfc_InvertSelection

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

GetFocus event (u_plb)

{button Object,JI(`>main',`bfccbace')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

pfc_InvertSelection event (u_plb)

{button Object,JI(`>main',`bfccbace')}

Description

Inverts the rows selected in the PictureListBox. Unselected rows become selected; selected rows are cleared.

Return value

Integer. Returns the number of selected rows if the event succeeds and 0 if this is an invalid operation.

Usage

The message router calls this event when the user selects Edit>Invert Selection from the menu bar.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_SelectAll event (u_plb)

{button Object,JI(`>main',`bfccbace')}

Description

Selects all rows in the PictureListBox.

Return value

Integer. Returns the number of selected rows if the event succeeds and 0 if this is an invalid operation.

Usage

The message router calls this event when the user selects Edit>Select All from the menu bar.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

u_plb

{button Events,JI(`>list_win',`id_pfcoref_778')}

of_GetParentWindow function

of_GetSelected function

of_MessageBox function

U_plb includes precoded object functions:

of_GetParentWindow
of_MessageBox
of_GetSelected

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetParentWindow function (u_plb)

{button Object,JI(`>main',`bfccbace')} {button Examples,JI(`>Examples',`id_pfcoref_784')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_plb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_plb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_GetParentWindow function (u_plb)

This example is from the u_plb GetFocus event:

```
Window   lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus(this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetSelected function (u_plb)

{button Object,JI(`>main',`bfccbace')} {button Examples,JI(`>Examples',`id_pfcoref_786')}

Description

Populates a passed object with all selected entries in the PictureListBox.

Access

Public

Syntax

instancename.**of_GetSelected** (*selecteditems*)

Argument	Description
instancename	Instance name of u_plb
selecteditems	N_cst_itemattrib array into which the function places selected items (passed by reference)

Return value

Integer. Returns the number of selected items if the function succeeds and 0 if this is an invalid operation.

Usage

Call this function to access selected items.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetSelected function (u_plb)

This example calls the of_GetSelected function:

```
n_cst_itemattrib   lnv_items[ ]

Integer   li_selected

li_selected = plb_list.of_GetSelected(lnv_items)
IF li_selected = 0 THEN
        MessageBox("PLB", "Invalid PLB operation")
        Return
END IF
// Logic to read lnv_items follows
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_MessageBox function (u_plb)

{button Object,JI(`>main',`bfccbace')} {button Examples,JI(`>Examples',`id_pfcoref_788')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_plb
id	String specifying an ID for the message
title	String specifying the title of the PictureListBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in PictureListBoxes.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_MessageBox function (u_plb)

This example calls the of_MessageBox function:

```
of_Messagebox('plb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

u_rb

```
{button See also,PI(`',`id_pfcoref_790')} {button
Functions,JI(`>list_win',`id_pfcoref_793')} {button
Events,JI(`>list_win',`id_pfcoref_791')}
```

Description

RadioButton visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder RadioButton control. U_rb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

u_rb

u_cbx

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

u_rb

{button Functions,JI(`>list_win',`id_pfcoref_793')}

GetFocus event

U_rb includes a precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

GetFocus event (u_rb)

{button Object,JI(`>main',`bfcbjgid')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

u_rb

{button Events,JI(`>list_win',`id_pfcoref_791')}

of_GetParentWindow function

of_MessageBox function

U_rb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetParentWindow function (u_rb)

{button Object,JI(`>main',`bfcbjgid')} {button Examples,JI(`>Examples',`id_pfcoref_795')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_rb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_rb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_GetParentWindow function (u_rb)

This example is from the u_rb GetFocus event:

```
Window    lw_parent
```

```
IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus(this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_MessageBox function (u_rb)

```
{button Object,JI(`>main',`bfcbjgid')} {button
Examples,JI(`>Examples',`id_pfcoref_797')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_rb
id	String specifying an ID for the message
title	String specifying the title of the RadioButton
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in RadioButtons.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_MessageBox function (u_rb)

This example calls the of_MessageBox function:

```
of_Messagebox('rb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

u_rte

```
{button See also,PI(`',`id_pfcoref_799')} {button
Functions,JI(`>list_win',`id_pfcoref_832')} {button
Events,JI(`>list_win',`id_pfcoref_801')} {button Instance
variables,JI(`>list_win',`id_pfcoref_800')}
```

Description

RichTextEdit visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master. U_rte also uses:

F_SetFileSrv

M_edit

N_cst_filesrv

N_cst_rtefind

N_cst_textstyleattrib

S_printdlgattrib

Usage

Use this visual user object in windows instead of the standard PowerBuilder RichTextEdit control. U_rte event scripts provide integration with PFC menus.

U_rte is a window control U_rte is a subclassed version of the RichTextEdit window control. It is not a DataWindow control using the Rich Text presentation style.

U_rte is fully integrated with menus that descend from PFC's m_master menu, including events that respond to the appropriate menu items. Additionally, u_rte includes right mouse button support. If the user clicks the right mouse button over a u_rte-based RichTextEdit control, the m_edit menu displays. M_edit allows you to perform basic editing functions.

To use u_rte:

1 Place a u_rte user object in your window.

2 (Optional) Enable the find service:

```
rte_doc.of_SetFind(TRUE)
```

3 Associate a document with the RichTextEdit control. This example uses the of_OpenDocument function to display a dialog box prompting the user for the file:

```
String  ls_document


rte_doc.of_OpenDocument(ls_document)
```

4 Call additional u_rte events and functions, as needed.

For more information on the RichTextEdit control, see the PowerBuilder User's Guide.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

u_rte

n_cst_rtefind

u_dw

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

u_rte

{button Functions,JI(`>list_win',`id_pfcoref_832')} {button Events,JI(`>list_win',`id_pfcoref_801')}

U_rte includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_continuouspages	Indicates whether continuous page numbering is enabled when printing	Boolean	Protected	Use of_GetContinuousPages and of_SetContinuousPages to access
ib_ignorefileexists	Indicates whether u_rte asks the user to confirm when saving a file that already exists	Boolean	Protected	Use of_GetIgnoreFileExists and of_SetIgnoreFileExists to access
ib_ongoingfind	Indicates whether a find operation is in progress	Boolean	Protected	Internal
ib_rmbmenu	Indicates whether right mouse button support is enabled	Boolean	Protected	When this is TRUE, PFC displays the m_edit popup menu when a user presses the right mouse button over this control To disable right mouse button support, set this variable to FALSE in the control's Constructor event
il_currentinstance	Tracks continuous printing	Long	Protected	Internal
il_currentprintpage	Tracks current page number	Long	Protected	Internal
il_startpagenumber	Specifies the first page that receives a page number	Boolean	Protected	Use of_GetStartPageNumber and of_SetStartPageNumber to access
inv_filesrv	Reference variable for the file service	n_cst_filesrv	Protected	Internal
inv_find	Structure containing information used in find and replace processing	n_cst_rtefind	Public	Internal
is_filename	Name of the current file	String	Protected	Use the of_GetFileName and of_SetFileName functions to access
is_pageinputfield	Specifies the name of the field that PFC uses to place the page number	String	Protected	Use of_GetPageInputField and of_SetPageInputField to access

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

u_rte

{button Functions,JI(`>list_win',`id_pfcoref_832')} {button Instance variables,JI(`>list_win',`id_pfcoref_800')}

- Destructor event
- FileExists event
- GetFocus event
- pfc_Clear event
- pfc_Copy event
- pfc_Cut event
- pfc_FindDlg event
- pfc_FirstPage event

- pfc_InsertFile event
- pfc_InsertPicture event
- pfc_LastPage event
- pfc_NextPage event
- pfc_Open event
- pfc_Paste event
- pfc_PrePrintDlg event
- pfc_PreRmbMenu event
- pfc_PreviousPage event
- pfc_Print event
- pfc_PrintDlg event
- pfc_PrintImmediate event
- pfc_PrintPreview event
- pfc_ReplaceDlg event
- pfc_Ruler event
- pfc_Save event
- pfc_SaveAs event
- pfc_SelectAll event
- pfc_Undo event
- PrintHeader event
- RButtonUp event

U_rte includes precoded event scripts:

- Destructor
- FileExists
- GetFocus
- pfc_Clear
- pfc_Copy
- pfc_Cut
- pfc_FindDlg
- pfc_FirstPage
- pfc_InsertFile
- pfc_InsertPicture
- pfc_LastPage
- pfc_NextPage
- pfc_Open
- pfc_Paste
- pfc_PrePrintDlg
- pfc_PreRmbMenu
- pfc_PreviousPage
- pfc_Print
- pfc_PrintDlg
- pfc_PrintImmediate
- pfc_PrintPreview
- pfc_ReplaceDlg
- pfc_Ruler
- pfc_Save
- pfc_SaveAs
- pfc_SelectAll
- pfc_Undo
- PrintHeader
- RButtonUp

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

Destructor event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Destroys the inv_filesrv instance.

Usage

This event executes when the u_rte-based control is destroyed or the window closes.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

FileExists event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Prompts the user that the file to be saved already exists. If the ib_ignorefileexists instance variable is TRUE, PFC does not prompt the user.

Usage

This event executes when the user saves a file that already exists.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

GetFocus event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

pfc_Clear event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when a RichTextEdit control based on u_rte has focus and the user selects Edit>Clear from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

pfc_Copy event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Edit>Copy from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_Cut event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Deletes selected text and stores it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Edit>Cut from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

pfc_FindDlg event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Displays a Find dialog box by calling the n_cst_rtefind service's pfc_FindDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects Edit>Find from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

pfc_FirstPage event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Scrolls to the first page.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects View>First Page from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

pfc_InsertFile event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Displays a dialog box prompting the user to choose a file to be copied at the current insertion point.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Insert>File from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

pfc_InsertPicture event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Displays a dialog box prompting the user to choose a bitmap to be copied at the current insertion point.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Insert>Picture from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

pfc_LastPage event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Scrolls to the last page.

Return value

Integer. Returns the number of the last page if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects View>Last Page from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

pfc_NextPage event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Scrolls to the next page.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects View>Next Page from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

pfc_Open event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Prompts the user for a file to open and places the specified file in the RichTextEdit control. If there is already a document in the control, the function prompts the user to save it.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects File>Open from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_Paste event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Edit>Paste from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_PrePrintDlg event (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_817')}

Description

Empty user event allowing you to modify the properties passed to the n_cst_platform of_PrintDlg function.

Syntax

instancename.EVENT **pfc_PrePrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_rte
attributes	S_printdlgattrib variable into which the event places additional printing information. This argument is accessed through the *astr_printdlg* argument (passed by reference)

Usage

This event is called by pfc_PrintDlg before calling the n_cst_platform of_PrintDlg function.

You can use this event to modify or extend the information passed in the s_printdlgattrib structure.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

pfc_PrePrintDlg event (u_rte)

This example contains code you might add to the pfc_PrePrintDlg event:

```
// Default copies to 1

astr_printdlg.l_copies = 1
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

pfc_PreRmbMenu event (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')}
```

Description

User event allowing you to modify m_edit contents before display.

Syntax

instancename.EVENT **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_rte
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Usage

You can add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step

Guide with HelpNDoc

pfc_PreviousPage event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Scrolls to the Previous page.

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects View>Previous Page from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_Print event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Calls the pfc_PrintDlg function and prints the RichTextEdit control, as specified in the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when the RichTextEdit control has focus and the user selects File>Print from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

pfc_PrintDlg event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Initializes the s_printdlgattrib structure with the RichTextEdit control's current settings, displays the Print dialog box by calling the n_cst_platform of_PrintDlg function, and resets the settings, as specified by the user.

Syntax

instancename.EVENT **pfc_PrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of u_rte
attributes	S_printdlgattrib variable into which the event places printing information. This argument is accessed through the *astr_printdlg* argument (passed by reference)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the pfc_Print event.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

pfc_PrintImmediate event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Prints the current RichTextEdit control without displaying the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the RichTextEdit control has focus and the user selects File>Print Immediate from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

pfc_PrintPreview event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Toggles between print preview and edit mode.

Return value

Boolean. Returns TRUE if the RichTextEdit control has been placed in preview mode and FALSE if it has been placed in edit mode.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects File>Print Preview from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

pfc_ReplaceDlg event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Displays a Replace dialog box by calling the n_cst_rtefind service's pfc_ReplaceDlg event.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called when the user selects View>Replace from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_Ruler event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Toggles display of the ruler and tab bar.

Return value

Boolean. Returns TRUE if the ruler has been displayed and FALSE if it has been hidden.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects View>Ruler from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

pfc_Save event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Saves the current contents of the RichTextEdit control. If the current contents is not associated with a file, the function displays a dialog box prompting the user to specify a filename.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects File>Save from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_SaveAs event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Saves the current contents of the RichTextEdit control, prompting the user to specify a filename.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects File>Save As from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_SelectAll event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Selects all text in the RichTextEdit control.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Edit>Select All from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

pfc_Undo event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Cancels the last change to the RichTextEdit control, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a RichTextEdit control based on u_rte has focus and the user selects Edit>Undo from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

PrintHeader event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Sets page numbers for printing.

Usage

This event executes when you print the RichTextEdit control.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

RButtonUp event (u_rte)

{button Object,JI(`>main',`bfcdeaea')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_rte.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

u_rte

{button Events,JI(`>list_win',`id_pfcoref_801')} {button Instance variables,JI(`>list_win',`id_pfcoref_800')}

of_GetContinuousPages function

of_GetFileName function

of_GetIgnoreFileExists function

of_GetPageInputField function

of_GetParentWindow function

of_GetStartPageNumber function

of_GetTextStyle function

of_InsertDocument function

of_InsertPicture function

of_MessageBox function

of_OpenDocument function

of_SetContinuousPages function

of_SetFileName function

of_SetFind function

of_SetIgnoreFileExists function

of_SetPageInputField function

of_SetStartPageNumber function

of_SetTextStyleBold function

of_SetTextStyleItalic function

of_SetTextStyleStrikeout function

of_SetTextStyleSubscript function

of_SetTextStyleSuperscript function

of_SetTextStyleUnderline function

U_rte includes precoded object functions:

of_GetContinuousPages
of_GetFileName
of_GetIgnoreFileExists
of_GetPageInputField
of_GetParentWindow
of_GetStartPageNumber
of_GetTextStyle
of_InsertDocument
of_InsertPicture
of_MessageBox
of_OpenDocument
of_SetContinuousPages
of_SetFileName
of_SetFind
of_SetIgnoreFileExists
of_SetPageInputField
of_SetStartPageNumber
of_SetTextStyleBold
of_SetTextStyleItalic
of_SetTextStyleStrikeout
of_SetTextStyleSubscript
of_SetTextStyleSuperscript
of_SetTextStyleUnderline

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetContinuousPages function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_834')}

Description

Reports whether PFC uses continuous page numbering when the RichTextEdit control is shared to a DataWindow.

Access

Public

Syntax

instancename.**of_GetContinuousPages** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

Boolean. Returns TRUE if continuous page numbering is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_GetContinuousPages function (u_rte)

This example calls the of_GetContinuousPages function:

```
IF rte_doc.of_GetContinuousPages() THEN

        MessageBox("RTE", &
       "Continuous page numbering is enabled")
ELSE
        MessageBox("RTE", &
       "Continuous page numbering is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetFileName function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_836')}

Description

Retrieves the name of the file associated with the RichTextEdit control.

Access

Public

Syntax

instancename.**of_GetFileName** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

String. Returns the current filename or an empty string if one has not been set with the of_SetFilename function.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_GetFileName function (u_rte)

This example calls the of_GetFileName function:

```
String    ls_filename


ls_filename = rte_doc.of_GetFileName()
MessageBox("RTE", "Filename is " + ls_filename)
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_GetIgnoreFileExists function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_838')}
```

Description

Reports whether PFC displays a message before overwriting an existing file.

Access

Public

Syntax

instancename.**of_GetIgnoreFileExists** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

Boolean. Returns TRUE if PFC displays no message before overwriting an existing file and FALSE if PFC prompts the user before overwriting an existing file.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetIgnoreFileExists function (u_rte)

This example calls the of_GetIgnoreFileExists function:

```
IF rte_doc.of_GetIgnoreFileExists() THEN


  MessageBox("RTE", "No prompt before overwriting")
ELSE
```

```
  MessageBox("RTE", "PFC prompts before overwriting")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetPageInputField function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_840')}
```

Description

Retrieves the name of the field PFC uses to place the page number.

Access

Public

Syntax

instancename.**of_GetPageInputField** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

String. Returns the name of the field PFC uses to place the page number.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_GetPageInputField function (u_rte)

This example calls the of_GetPageInputField function:

```
String   ls_field


ls_field = rte_doc.of_GetPageInputField( )
MessageBox("RTE", "Page input field is " + ls_field)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetParentWindow function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_842')}
```

Description

Returns the parent of the current window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*parent*)

Argument	Description

instancename	Instance name of u_rte
parent	Window variable into which the function places the parent of the current window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_GetParentWindow function (u_rte)

This example is from the GetFocus event.

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF

END IF
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetStartPageNumber function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_844')}
```

Description

Retrieves the number of the page on which page numbers are initially displayed. For example, if this value is 3, the first two pages do not display page numbers and the third page displays a 3.

Access

Public

Syntax

instancename.**of_GetStartPageNumber** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

Long. Returns the number of the page upon which page numbers are initially displayed

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_GetStartPageNumber function (u_rte)

This example calls the of_GetStartPageNumber function:

```
Long   ll_return


ll_return = rte_doc.of_GetStartPageNumber()
MessageBox("RTE", &
    "Start page number is " + String(ll_return))
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_GetTextStyle function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_846')}

Description

Calculates all text style settings for the currently selected text.

Access

Public

Syntax

instancename.**of_GetTextStyle** (*textstyle*)

Argument	Description
instancename	Instance name of u_rte
textstyle	N_cst_textstyleattrib instance into which the function places text style settings (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to determine text style settings for the currently selected text.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_GetTextStyle function (u_rte)

This example calls the of_GetTextStyle function:

```
n_cst_textstyleattrib  lnv_style

Integer  li_return
n_cst_conversion  lnv_conv

li_return = rte_doc.of_GetTextStyle &
        (lnv_style)
IF li_return = -1 THEN
        MessageBox("RTE", "GetTextStyle error")
```

```
ELSE
        MessageBox("RTE", &
      + "Text styles are as follows:~r~n" &
      + "Bold: " &
      +lnv_conv.of_String(lnv_style.ib_bold) &
      + "~r~nItalic: " &
      + lnv_conv.of_String(lnv_style.ib_italic) &
      + "~r~nStrikeout: " &
      + lnv_conv.of_String(lnv_style.ib_strikeout) &
      + "~r~nSubscript: " &
      + lnv_conv.of_String(lnv_style.ib_subscript) &
      + "~r~nSuperscript: " &
      + lnv_conv.of_String(lnv_style.ib_superscript) &
      + "~r~nUnderlined: " &
      + lnv_conv.of_String(lnv_style.ib_underlined))
END IF
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_InsertDocument function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_848')}
```

Description

Displays the Insert File dialog box, prompting the user for the name of the file to copy into the current document, placing it at the current insertion point.

Access

Public

Syntax

instancename.**of_InsertDocument** (*filename*)

Argument	Description
instancename	Instance name of u_rte
filename	String into which the function places the fully qualified name of the file inserted into the document

Return value

Integer. Returns 1 if the function succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_InsertDocument function (u_rte)

This example calls the of_InsertDocument function:

```
Integer  li_return

String   ls_filename

li_return = rte_doc.of_InsertDocument(ls_filename)
IF li_return = -1 THEN
        MessageBox("RTE", "Insert file error")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("Inserted file: " + String(ls_filename))
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_InsertPicture function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_850')}
```

Description

Displays the Insert Picture dialog box, prompting the user for the name of the bitmap to copy into the current document, placing it at the current insertion point.

Access

Public

Syntax

instancename.**of_InsertPicture** (*bitmap*)

Argument	Description
instancename	Instance name of u_rte
bitmap	String into which the function places the fully qualified name of the bitmap inserted into the document

Return value

Integer. Returns 1 if the function succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_InsertPicture function (u_rte)

This example calls the of_InsertPicture function:

```
Integer  li_return

String   ls_filename

li_return = rte_doc.of_InsertPicture(ls_filename)
IF li_return = -1 THEN
        MessageBox("RTE", "Insert file error")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("Inserted file: " + String(ls_filename))
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_MessageBox function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_852')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_rte
id	String specifying an ID for the message
title	String specifying the title of the RichTexEdit control
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in RichTextEdit controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_MessageBox function (u_rte)

This example calls the of_MessageBox function:

```
of_Messagebox('rte_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_OpenDocument function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_854')}
```

Description

Displays the Open dialog box, prompting the user for the name of the file to place into the RichTextEdit control. This function prompts you before discarding the control's current contents.

Access

Public

Syntax

instancename.**of_OpenDocument** (*filename*)

Argument	Description
instancename	Instance name of u_rte
filename	String into which the function places the fully qualified name of the selected file

Return value

Integer. Returns 1 if the function succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_OpenDocument function (u_rte)

This example calls the of_OpenDocument function:

```
String   ls_filename

Integer  li_return

li_return = rte_doc.of_OpenDocument(ls_filename)
IF li_return = -1 THEN
        MessageBox("RTE", "File open error")
        Return
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetContinuousPages function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_856')}
```

Description

Specifies whether PFC uses continuous page numbering when the RichTextEdit control is shared to a DataWindow.

Access

Public

Syntax

instancename.**of_SetContinuousPages** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean specifying whether continuous page numbering is used (TRUE) or not (FALSE)

Return value

None

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_SetContinuousPages function (u_rte)

This example calls the of_SetContinuousPages function:

```
rte_doc.of_SetContinuousPages(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetFileName function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_858')}

Description

Specifies the name of the file associated with the RichTextEdit control.

Access

Public

Syntax

instancename.**of_SetFileName** (*filename*)

Argument	Description
instancename	Instance name of u_rte
filename	String specifying the fully qualified name of the file displayed in the RichTextEdit control

Return value

None

Usage

The of_OpenDocument function automatically specifies the name of the file associated with the RichTextEdit control. But if you open a document with of_InsertDocument or the PowerScript InsertDocument function, you should call this function to set the filename.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetFileName function (u_rte)

This example calls the of_SetFileName function:

```
Integer  li_return

String   ls_filename

li_return = rte_doc.of_InsertDocument(ls_filename)
IF li_return = -1 THEN
```

```
        MessageBox("RTE", "Insert file error")
ELSE
        rte_doc.of_SetFileName(ls_filename)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_SetFind function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_860')}

Description

Enables or disables n_cst_rtefind, which provides the find and replace service.

Access

Public

Syntax

instancename.**of_SetFind** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the find and replace service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_rtefind. This instance is named inv_find.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_SetFind function (u_rte)

This example calls the of_SetFind function to enable the RichTextEdit find and replace service:

```
rte_doc.of_SetFind(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetIgnoreFileExists function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_862')}

Description

Specifies whether PFC displays a message before overwriting an existing file.

Access

Public

Syntax

instancename.**of_SetIgnoreFileExists** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean specifying whether PFC displays a message before overwriting an existing file (TRUE) or not (FALSE)

Return value

None

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetIgnoreFileExists function (u_rte)

This example calls the of_SetIgnoreFileExists function:

```
String   ls_filename

Integer  li_return

li_return = &
        rte_doc.of_OpenDocument(ls_filename)
IF li_return = -1 THEN
        MessageBox("RTE", "File open error")
        Return
ELSE
        rte_doc.of_SetIgnoreFileExists(TRUE)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetPageInputField function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_864')}
```

Description

Specifies the name of the field PFC uses to place the page number.

Access

Public

Syntax

instancename.**of_SetPageInputField** ( )

Argument	Description
instancename	Instance name of u_rte

Return value

None

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetPageInputField function (u_rte)

This example calls the of_SetPageInputField function:

```
rte_doc.of_SetContinuousPages(TRUE)

rte_doc.of_SetPageInputField("PAGE NUMBER")
rte_doc.of_SetStartPageNumber(2)
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_SetStartPageNumber function (u_rte)

{button Object,JI(`>main',`bfcdeaea')} {button Examples,JI(`>Examples',`id_pfcoref_866')}

Description

Specifies the number of the page upon which page numbers are initially displayed. For example, if this value is 3, the first two pages do not display page numbers and the third page displays a 3.

Access

Public

Syntax

instancename.**of_SetStartPageNumber** (*firstpage*)

Argument	Description
instancename	Instance name of u_rte
firstpage	Long specifying the number of the page upon which page numbers are initially displayed

Return value

None

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetStartPageNumber function (u_rte)

This example calls the of_SetStartPageNumber function:

```
rte_doc.of_SetContinuousPages(TRUE)

rte_doc.of_SetPageInputField("PAGE NUMBER")
rte_doc.of_SetStartPageNumber(2)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetTextStyleBold function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_868')}
```

Description

Sets the currently selected text to bold, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleBold** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the bold attribute (TRUE) or remove it (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_SetTextStyleBold function (u_rte)

This example calls the of_SetTextStyleBold function:

```
Integer  li_return


li_return = rte_doc.of_SetTextStyleBold(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetTextStyleItalic function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_870')}
```

Description

Sets the currently selected text to italic, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleItalic** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the italic attribute (TRUE) or remove it

(FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_SetTextStyleItalic function (u_rte)

This example calls the of_SetTextStyleItalic function:

```
Integer  li_return


li_return = rte_doc.of_SetTextStyleItalic(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_SetTextStyleStrikeout function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_872')}
```

Description

Sets the currently selected text to strikeout, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleStrikeout** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the strikeout attribute (TRUE) or remove it (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_SetTextStyleStrikeout function (u_rte)

This example calls the of_SetTextStyleStrikeout function:

```
Integer   li_return
```

```
li_return = rte_doc.of_SetTextStyleStrikeout(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetTextStyleSubscript function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_874')}
```

Description

Sets the currently selected text to subscript, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleSubscript** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the subscript attribute (TRUE) or remove it (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_SetTextStyleSubscript function (u_rte)

This example calls the of_SetTextStyleSubscript function:

```
Integer   li_return


li_return = rte_doc.of_SetTextStyleSubscript(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_SetTextStyleSuperscript function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_876')}
```

Description

Sets the currently selected text to superscript, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleSuperscript** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the superscript attribute (TRUE) or remove it (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetTextStyleSuperscript function (u_rte)

This example calls the of_SetTextStyleSuperscript function:

```
Integer   li_return


li_return = rte_doc.of_SetTextStyleSuperscript(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_SetTextStyleUnderline function (u_rte)

```
{button Object,JI(`>main',`bfcdeaea')} {button
Examples,JI(`>Examples',`id_pfcoref_878')}
```

Description

Sets the currently selected text to underline, leaving all other text attributes as they were.

Access

Public

Syntax

instancename.**of_SetTextStyleUnderline** (*boolean*)

Argument	Description
instancename	Instance name of u_rte
boolean	Boolean indicating whether to add the underline attribute (TRUE) or remove it (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_SetTextStyleUnderline function (u_rte)

This example calls the of_SetTextStyleUnderline function:

```
Integer  li_return


li_return = rte_doc.of_SetTextStyleUnderline(TRUE)
IF li_return = -1 THEN
        MessageBox("RTE","Error setting text style")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

u_sle

```
{button See also,PI(`',`id_pfcoref_880')} {button
Functions,JI(`>list_win',`id_pfcoref_893')} {button
Events,JI(`>list_win',`id_pfcoref_882')} {button Instance
variables,JI(`>list_win',`id_pfcoref_881')}
```

Description

SingleLineEdit visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder SingleLineEdit control. U_sle event scripts provide integration with PFC menus. Additionally, u_sle supports:

- **Cut, copy, paste, clear, and select all** These events are called by PFC menus.
- **Popup menu support** The ContextMenu event enables you to use the right mouse button to perform editing actions. To disable right mouse button support, set ib_rmbmenu to FALSE in the SingleLineEdit's Constructor event.
- **Autoselect** This means that text is selected when a user tabs to the edit mask. To disable

autoselect, set ib_autoselect to FALSE in the SingleLineEdit's Constructor event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

u_sle

u_mle

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

u_sle

{button Functions,JI(`>list_win',`id_pfcoref_893')} {button Events,JI(`>list_win',`id_pfcoref_882')}

U_sle includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autoselect	Indicates whether PFC selects text automatically when the control receives focus	Boolean	Protected	Set this to TRUE to enable autoselect (default is FALSE)
ib_rmbmenu	Indicates whether the m_edit menu displays when the user presses the right mouse button	Boolean	Protected	Set this to FALSE to disable right mouse button support (default is TRUE)

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

u_sle

{button Functions,JI(`>list_win',`id_pfcoref_893')} {button Instance variables,JI(`>list_win',`id_pfcoref_881')}

- **ContextMenu event**
- **GetFocus event**
- **pfc_Clear event**
- **pfc_Copy event**
- **pfc_Cut event**
- **pfc_Paste event**
- **pfc_PreRmbMenu event**
- **pfc_SelectAll event**
- **pfc_Undo event**
- **RButtonUp event**

U_sle includes precoded events:

ContextMenu	pfc_Paste
GetFocus	pfc_PreRmbMenu
pfc_Clear	pfc_SelectAll
pfc_Copy	pfc_Undo

pfc_Cut RButtonUp

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

ContextMenu event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Displays the m_edit popup menu.

Usage

This event executes when the user releases the right mouse button over a control based on u_sle.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

GetFocus event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

pfc_Clear event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Deletes selected text.

Return value

Integer. Returns the number of characters deleted if the event succeeds and -1 if an error occurs.

Usage

This event is triggered when a SingleLineEdit control based on u_sle has focus and the user selects Edit>Clear from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

pfc_Copy event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Copies selected text to the clipboard.

Return value

Integer. Returns the number of characters copied if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a SingleLineEdit control based on u_sle has focus and the user selects Edit>Copy from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

pfc_Cut event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Deletes selected text and stored it on the clipboard.

Return value

Integer. Returns the number of characters removed if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a SingleLineEdit control based on u_sle has focus and the user selects Edit>Cut from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

pfc_Paste event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Inserts (pastes) the contents of the clipboard at the insertion point.

Return value

Integer. Returns the number of characters that were pasted if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a SingleLineEdit control based on u_sle has focus and the user selects Edit>Paste from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

pfc_PreRmbMenu event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

User event allowing you to modify m_edit contents prior to display.

Syntax

instancename.EVENT **pfc_PreRmbMenu** (*editmenu*)

Argument	Description

instancename	Instance name of u_sle
editmenu	M_edit variable containing the popup menu to be displayed (passed by reference)

Usage

You can add logic to this event to selectively enable and disable m_edit menu items.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_SelectAll event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Selects all text in the SingleLineEdit.

Return value

Integer. Returns the number of characters selected if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a SingleLineEdit control based on u_sle has focus and the user selects Edit>Select All from the menu bar of a menu descended from the PFC m_master menu. This event is also called by the m_edit popup menu.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

pfc_Undo event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Cancels the last change to the SingleLineEdit control, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a SingleLineEdit control based on u_sle has focus and the user selects Edit>UndoAll from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

RButtonUp event (u_sle)

{button Object,JI(`>main',`bfccechg')}

Description

Empty user event. PFC code previously assigned to this event is now in the ContextMenu event.

Usage

This event executes when the user releases the right mouse button over a control based on u_sle.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with

HelpNDoc's step-by-step guide

u_sle

{button Events,JI(`>list_win',`id_pfcoref_882')} {button Instance variables,JI(`>list_win',`id_pfcoref_881')}

of_GetParentWindow function

of_MessageBox function

U_sle includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_GetParentWindow function (u_sle)

{button Object,JI(`>main',`bfccechg')} {button Examples,JI(`>Examples',`id_pfcoref_895')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_sle
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_sle GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetParentWindow function (u_sle)

This example is from the u_sle GetFocus event:

```
Window    lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
```

```
        END IF
  END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_MessageBox function (u_sle)

```
{button Object,JI(`>main',`bfccechg')} {button
Examples,JI(`>Examples',`id_pfcoref_897')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_sle
id	String specifying an ID for the message
title	String specifying the title of the SingleLineEdit
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in SingleLineEdits.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_MessageBox function (u_sle)

This example calls the of_MessageBox function:

```
of_Messagebox('sle_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

u_st

```
{button See also,PI(`',`id_pfcoref_900')} {button
Functions,JI(`>list_win',`id_pfcoref_903')} {button
Events,JI(`>list_win',`id_pfcoref_901')} {button
Descendants,JI(`>list_win',`id_pfcoref_899')}
```

Description

StaticText visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder StaticText control. U_st event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

u_st

u_st_splitbar

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

u_st

u_mle

u_sle

u_sth

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

u_st

{button Functions,JI(`>list_win',`id_pfcoref_903')}

GetFocus event

U_st includes one precoded event:

GetFocus

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

GetFocus event (u_st)

{button Object,JI(`>main',`bfcdagci')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

u_st

{button Events,JI(`>list_win',`id_pfcoref_901')}

of_GetParentWindow function

of_MessageBox function

U_st includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetParentWindow function (u_st)

{button Object,JI(`>main',`bfcdagci')} {button Examples,JI(`>Examples',`id_pfcoref_905')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_st
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_st GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_GetParentWindow function (u_st)

This example is from the u_st GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_MessageBox function (u_st)

```
{button Object,JI(`>main',`bfcdagci')} {button
Examples,JI(`>Examples',`id_pfcoref_907')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_st
id	String specifying an ID for the message
title	String specifying the title of the MessageBox

message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in StaticText controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_MessageBox function (u_st)

This example calls the of_MessageBox function:

```
of_Messagebox('st_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

u_sth

```
{button See also,PI(`',`id_pfcoref_909')} {button
Functions,JI(`>list_win',`id_pfcoref_912')} {button
Events,JI(`>list_win',`id_pfcoref_910')}
```

Description

StaticTextHyperlink visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder StaticTextHyperlink control. U_sth event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

u_sth

u_phl

u_st

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

u_sth

{button Functions,JI(`>list_win',`id_pfcoref_912')}

GetFocus event

U_sth includes one precoded event:

GetFocus

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

GetFocus event (u_sth)

{button Object,JI(`>main',`babdcdec')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

u_sth

{button Events,JI(`>list_win',`id_pfcoref_910')}

of_GetParentWindow function

of_MessageBox function

U_sth includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetParentWindow function (u_sth)

{button Object,JI(`>main',`babdcdec')} {button Examples,JI(`>Examples',`id_pfcoref_914')}

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_sth
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_sth GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetParentWindow function (u_sth)

This example is from the u_sth GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
```

```
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_MessageBox function (u_sth)

{button Object,JI(`>main',`babdcdec')} {button Examples,JI(`>Examples',`id_pfcoref_916')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_sth
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in StaticTextHyperlink controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_MessageBox function (u_sth)

This example calls the of_MessageBox function:

```
of_Messagebox('sth_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

u_tab

```
{button See also,PI(`',`id_pfcoref_918')} {button
Functions,JI(`>list_win',`id_pfcoref_928')} {button
Events,JI(`>list_win',`id_pfcoref_920')} {button Instance
variables,JI(`>list_win',`id_pfcoref_919')}
```

Description

Tab control visual user object ancestor.

Ancestry

pfc_u_tab
- u_tab
  - **Events**
    - pfc_AcceptText
    - pfc_PostUpdate
    - pfc_Update
    - pfc_UpdatePrep
    - pfc_UpdatesPending
    - pfc_Validation
    - Resize
  - **Functions**

Public	of_AcceptText	Public	of_SetLogicalUnitOfWork
Public	of_GetInfo	Public	of_SetResize
Public	of_GetParentWindow	Protected	of_SetUpdateable
Protected	of_GetUpdateObjects	Protected	of_SetUpdateObjects
Protected	of_IsAlwaysValidate	Protected	of_SetUpdateRequestor
Protected	of_IsUpdateable	Public	of_Update
Protected	of_MessageBox	Public	of_UpdatePrep
Public	of_PostUpdate	Public	of_UpdatesPending
Protected	of_SetAlwaysValidate	Public	of_Validation

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use descendants of this visual user object in the User Object painter instead of the visual standard tab user object. Using the User Object painter, add u_tabpg-based tab pages, coding events and functions as needed.

U_tab is a self-updating object.

You typically do not place this object directly into the Window painter.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

u_tab

n_cst_resize

u_tabpg

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

u_tab

{button Functions,JI(`>list_win',`id_pfcoref_928')} {button Events,JI(`>list_win',`id_pfcoref_920')}

U_tab includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_alwaysvalidate	Controls whether the save process includes all objects in the validation process	Boolean	Protected	Set with of_SetAlwaysValidate (default is FALSE)
ib_isupdateable	Indicates whether the Tab control can be updated	Boolean	Protected	Set with of_SetUpdateable (default is FALSE)
inv_luw	Reference variable for logical unit of work service	n_cst_luw	Protected	Implements the update process
inv_resize	Reference variable for the resize service	n_cst_resize	Public	Use in dot notation to access n_cst_resize functions and attributes
ipo_pendingupdates[ ]	Objects that could be updated	PowerObject	Protected	Internal
ipo_updateobjects[ ]	Objects to be updated	PowerObject	Protected	Internal
ipo_updaterequestor	Owner of the save process	PowerObject	Protected	Internal
NO_ACTION	Constant set to 0	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Free help authoring environment

u_tab

{button Functions,JI(`>list_win',`id_pfcoref_928')} {button Instance variables,JI(`>list_win',`id_pfcoref_919')}

pfc_AcceptText event

pfc_PostUpdate event

pfc_Update event

pfc_UpdatePrep event

pfc_UpdatesPending event

pfc_Validation event

Resize event

U_tab includes a precoded event:

pfc_AcceptText
pfc_PostUpdate
pfc_Update
pfc_UpdatesPending
pfc_Validation
Resize

pfc_UpdatePrep

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

pfc_AcceptText event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_AcceptText function.

Syntax

instancename.Event **pfc_AcceptText** (*controls*, *focusonerror*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects on which to accept text. This argument is accessed through the *apo_control* argument
focusonerror	Boolean indicating whether focus should be set if an error occurs. This argument is accessed through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The of_AcceptText function calls this event.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

pfc_PostUpdate event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_PostUpdate function.

Syntax

instancename.Event **pfc_PostUpdate** (*controls*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects on which to perform post-update processing. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with

HelpNDoc's User-Friendly UI

pfc_Update event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_Update function to update the specified controls.

Syntax

instancename.Event **pfc_Update** (*controls*, *accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
accepttext	Boolean specifying whether n_cst_luw should automatically perform an AcceptText prior to performing the Update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether n_cst_luw should automatically reset DataWindow update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Update function calls this event.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

pfc_UpdatePrep event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_UpdatePrep function.

Syntax

instancename.Event **pfc_UpdatePrep** (*controls*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this function.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_UpdatesPending event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_GetUpdatesPending function.

Syntax

instancename.Event **pfc_UpdatesPending** (*controls*, *pending*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
pending	PowerObject array into which the event places objects with pending updates. This argument is accessed through the *apo_pending* argument (passed by reference)

Return value

Integer. Returns 1 if there are pending updates, 0 if there are no pending updates, and -1 if an error occurs.

Usage

This event is called by the of_GetUpdatesPending function.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

pfc_Validation event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Calls the n_cst_luw of_Validation function.

Syntax

instancename.Event **pfc_Validation** (*controls*)

Argument	Description
instancename	Instance name of u_tab
controls	PowerObject array containing the objects to validate. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the of_Validation function.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

Resize event (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Triggers automatic resize processing, if enabled in n_cst_resize.

Usage

This event executes when the user resizes the window.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

u_tab

{button Events,JI(`>list_win',`id_pfcoref_920')} {button Instance variables,JI(`>list_win',`id_pfcoref_919')}

of_AcceptText function

of_GetInfo function

of_GetParentWindow function

of_GetUpdateObjects function

of_IsAlwaysValidate function

of_IsUpdateable function

of_MessageBox function

of_PostUpdate function

of_SetAlwaysValidate function

of_SetLogicalUnitOfWork function

of_SetResize function

of_SetUpdateable function

of_SetUpdateObjects function

of_SetUpdateRequestor function

of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

U_tab includes precoded object functions:

of_AcceptText
of_GetInfo
of_GetParentWindow
of_GetUpdateObjects
of_IsAlwaysValidate
of_IsUpdateable
of_MessageBox
of_PostUpdate
of_SetAlwaysValidate
of_SetLogicalUnitOfWork
of_SetResize
of_SetUpdateable
of_SetUpdateObjects
of_SetUpdateRequestor
of_Update
of_UpdatePrep
of_UpdatesPending
of_Validation

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_AcceptText function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_930')}

Description

Performs an AcceptText function for controls on the tab's tab pages.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of u_tab
focusonerror	Boolean indicating whether PFC sets focus to the first item in error when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_AcceptText function (u_tab)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetInfo function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_932')}

Description

Retrieves object information.

Access

Public

Syntax

instancename.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of u_tab
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetInfo function (u_tab)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


tab_1.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetParentWindow function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_934')}
```

Description

Returns a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_tab
window	Window variable into which the function places a reference to the parent window

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

Call this function from within a tab to determine the parent window.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_GetParentWindow function (u_tab)

This example calls the of_GetParentWindow function:

```
Window  lw_parent


of_GetParentWindow(lw_parent)
IF IsValid(lw_parent) THEN
        ... // Continue processing
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_GetUpdateObjects function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_936')}
```

Description

Retrieves the current default array of objects affected by the update process.

Access

Protected

Syntax

instancename.**of_GetUpdateObjects** (*objects*)

Argument	Description
instancename	Instance name of u_tab
objects	PowerObject array into which the function places objects to be updated (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_GetUpdateObjects function (u_tab)

This example calls the of_GetUpdateObjects function:

```
PowerObject  lpo_objs[ ]

Integer  li_return, li_count

li_return = this.of_GetUpdateObjects(lpo_objs)
FOR li_count = 1 to li_return
        IF lpo_objs[li_count] = ids_data THEN
       Return 1
```

```
        END IF
NEXT
li_return++
lpo_objs[li_return] = ids_data
Return this.of_SetUpdateObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_IsAlwaysValidate function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_938')}
```

Description

Reports whether the default save process always performs validation, regardless of whether objects have updates pending.

Access

Public

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Boolean. Returns TRUE if the default save process always performs validation and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_IsAlwaysValidate function (u_tab)

This example calls the of_IsAlwaysValidate function:

```
IF tab_1.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("Tab", "Always validate")
ELSE
   MessageBox("Tab", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_IsUpdateable function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_940')}
```

Description

Reports whether controls on the Tab control's tab pages are updatable.

Access

Public

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Boolean. Returns TRUE if controls are updatable and FALSE if they is not.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_IsUpdateable function (u_tab)

This example is from the pfc_UpdatesPending event:

```
...

If Not of_IsUpdateable() Then Return NO_UPDATESPENDING
...
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_MessageBox function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_942')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_tab
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel!

	• RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Tab controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_MessageBox function (u_tab)

This example calls the of_MessageBox function:

```
of_Messagebox('tab_error','Save', &

   as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_PostUpdate function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_944')}
```

Description

Calls the pfc_PostUpdate event, which clears update flags and allows you to code additional post update processing.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To customize post update processing, extend the pfc_PostUpdate event.

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_PostUpdate function (u_tab)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_SetAlwaysValidate function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_946')}
```

Description

Specifies whether the default save process always performs validation, regardless of whether there are pending updates.

Access

Public

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description
instancename	Instance name of u_tab
boolean	Boolean specifying whether the default save process always perform validation (TRUE) or only performs validation if a control has pending updates (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetAlwaysValidate function (u_tab)

This example calls the of_SetAlwaysValidate function:

```
tab_1.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_SetLogicalUnitOfWork function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_948')}

Description

Enables or disables n_cst_luw, which provides the logical unit of work service.

Access

Public

Syntax

instancename.**of_SetLogicalUnitOfWork** (*boolean*)

Argument	Description
instancename	Instance name of u_tab
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_luw

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_luw. This instance is named inv_luw. If you do not enable n_cst_luw, u_tab enables it automatically.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetLogicalUnitOfWork function (u_tab)

This example calls the of_SetLogicalUnitOfWork function:

```
tab_1.of_SetLogicalUnitOfWork(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_SetResize function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_950')}

Description

Enables or disables n_cst_resize, the resize service.

Access

Public

Syntax

instancename.**of_SetResize** (*boolean*)

Argument	Description
instancename	Instance name of u_tab
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of n_cst_resize

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_resize. This instance is named inv_resize.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetResize function (u_tab)

This example calls the of_SetResize function in a window Open event to enable the resize service for tab_1:

```
tab_1.of_SetResize(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_SetUpdateable function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_952')}

Description

Specifies whether the Tab is updatable.

Access

Public

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of u_tab
boolean	Boolean indicating whether the Tab is updatable. All updatable Tabs are included in the default save processing

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_SetUpdateable function (u_tab)

This example calls the of_SetUpdateable function:

```
tab_1.of_SetUpdateable(FALSE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetUpdateObjects function (u_tab)

{button Object,JI(`>main',`bfcdidej')}

Description

Sets a new default array containing objects for which updates are attempted.

Access

Protected

Syntax

instancename.**of_SetUpdateObjects** (*requester*)

Argument	Description
instancename	Instance name of u_tab
requester	PowerObject array containing the object to be updated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetUpdateRequestor function (u_tab)

{button Object,JI(`>main',`bfcdidej')} {button Examples,JI(`>Examples',`id_pfcoref_955')}

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requester*)

Argument	Description
instancename	Instance name of u_tab
requester	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_SetUpdateRequestor function (u_tab)

This example is from the of_Update function:

```
...

If IsValid(inv_luw) Then         inv_luw.of_SetUpdateRequestor(apo_requestor)End If
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_Update function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_957')}
```

Description

Calls the pfc_Update event.

Access

Public

Syntax

instancename.**of_Update** (*accept*, *resetflag* {, *requestor*})

Argument	Description
instancename	Instance name of u_tab
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags
requestor	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the update succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_Update function (u_tab)

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_UpdatePrep function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_959')}
```

Description

Calls the pfc_UpdatePrep event.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_UpdatePrep function (u_tab)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep ()
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_UpdatesPending function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_961')}
```

Description

Calls the pfc_UpdatesPending event.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_UpdatesPending function (u_tab)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
        la_rc = lpo_tocheck.Dynamic of_UpdatesPending ()
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_Validation function (u_tab)

```
{button Object,JI(`>main',`bfcdidej')} {button
Examples,JI(`>Examples',`id_pfcoref_963')}
```

Description

Calls the pfc_Validation event.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of u_tab

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating

object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_Validation function (u_tab)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

u_tvs

```
{button See also,PI(`',`id_pfcoref_965')} {button
Functions,JI(`>list_win',`id_pfcoref_1009')} {button
Events,JI(`>list_win',`id_pfcoref_967')} {button Instance
variables,JI(`>list_win',`id_pfcoref_966')}
```

Description

Service-based TreeView visual user object ancestor. This object uses DataStores to display data in a TreeView.

U_tvs is a self-updating object.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master. U_tvs also uses:

m_tv

n_cst_infoattrib

n_ds

n_cst_luw

n_cst_tvsrv

n_cst_tvsrv_levelsource

n_cst_print

Usage

Use this visual user object in windows instead of the standard PowerBuilder TreeView control. U_tvs event scripts provide integration with PFC menus.

To use u_tvs:

1 Place a u_tvs user object in your window.

2 Enable TreeView services as needed:

```
this.of_SetPrint(TRUE)
```

```
this.of_SetLevelSource(TRUE)
this.of_SetBase(TRUE)
```

3 Specify the data source for each TreeView level:

```
String  ls_sql

Integer  li_return

ls_keys[1] = "dept_id"
this.inv_levelsource.of_Register(1,  &
   "dept_name", "", "d_deptlist", SQLCA, "")
      ls_keys[1] = "emp_id"
this.inv_levelsource.of_Register(2,   &
   "emp_lname", ":parent.1.dept_id",  &
      "d_empbydept", SQLCA, "")
```

4 Specify additional TreeView display information as needed:

```
this.inv_levelsource.of_SetPictureColumn(1, "1")

this.inv_levelsource.of_SetSelectedPictureColumn &
   (1, "2")this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn &
   (2, "5")
```

5 Retrieve rows for the first level of the TreeView:

```
this.event pfc_populate(0)
```

6 Extend the pfc_Retrieve event to implement retrieval arguments:

```
Any   la_args[20]

Integer   li_level

IF IsValid(inv_levelsource) THEN
            li_level = this.of_GetNextLevel(al_parent)
            this.inv_levelsource.of_GetArgs(al_parent,  &
      li_level, la_args)
END IF

Return this.of_Retrieve(al_parent, la_args,  &
   ads_data)
```

7 Call additional u_tvs functions as needed.

For more information on the TreeView control, see the PowerBuilder User's Guide.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

u_tvs

m_tvs

u_lvs

n_cst_tvsrv

n_cst_tvsrv_levelsource

n_cst_tvsrv_print

Created with the Personal Edition of HelpNDoc: Free Kindle producer

u_tvs

{button Functions,JI(`>list_win',`id_pfcoref_1009')} {button Events,JI(`>list_win',`id_pfcoref_967')}

U_tvs includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_alwaysvalidate	Controls whether the save process includes all objects in the validation process	Boolean	Protected	Set with of_SetAlwaysValidate (default is FALSE)
ib_isupdateable	Indicates whether the TreeView can be updated	Boolean	Protected	Set with of_SetUpdateable (default is FALSE)
ib_rmbmenu	Controls right mouse button support	Boolean	Protected	Set with of_SetRmbMenu
il_dragsource	Handle of the dragged item	Long	Public	PFC uses this instance variable to track a dragged TreeView item
il_dragtarget	Handle of drag target	Long	Public	PFC uses this instance variable to track a dragged TreeView item
il_rightclicked	Item clicked with the right mouse button	Long	Protected	Internal
im_view	Popup menu	m_tvs	Protected	Internal
inv_base	Reference variable for basic TreeView services	n_cst_tvsrv	Public	Use in dot notation to access n_cst_tvsrv functions and attributes
inv_levelsource	Reference variable for the TreeView data source service	n_cst_tvsrv_levelsource	Public	Use in dot notation to access n_cst_tvsrv_levelsource functions and attributes
inv_luw	Reference variable for logical unit of work service	n_cst_luw	Protected	Implements the save process
inv_print	Reference variable for TreeView print service	n_cst_tvsrv_print	Public	Use in dot notation to access n_cst_tvsrv_print functions and attributes
ipo_pendingupdates[ ]	Objects that could be updated	PowerObject	Protected	Internal
ipo_updaterequestor	Owner of the save process	PowerObject	Protected	Internal

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

u_tvs

{button Functions,JI(`>list_win',`id_pfcoref_1009')} {button Instance variables,JI(`>list_win',`id_pfcoref_966')}

- **BeginDrag event**
- **Destructor event**
- **DragDrop event**

- EndLabelEdit event
- GetFocus event
- KeyDown event
- ItemExpanding event
- pfc_AcceptText event

pfc_AddAll event

pfc_AddItem event

pfc_DeleteItem event

pfc_InsertItem event

- pfc_NewItem event

pfc_Populate event

- pfc_PostUpdate event
- pfc_PreDeleteItem event
- pfc_PreInsertItem event
- pfc_PreRefreshItem event
- pfc_PreRefreshLevel event
- pfc_PreRmbMenu event
- pfc_Properties event

pfc_RefreshItem event

pfc_RefreshLevel event

- pfc_RenameItem event

pfc_Retrieve event

- pfc_SearchCompare event
- pfc_SetItemAttributes event
- pfc_Undo event
- pfc_Update event
- pfc_UpdatePrep event
- pfc_UpdatesPending event
- pfc_Validation event
- RightClicked event

U_tvs includes precoded events:

BeginDrag	pfc_PreRefreshItem
Destructor	pfc_PreRefreshLevel
DragDrop	pfc_PreRmbMenu
EndLabelEdit	pfc_Properties
GetFocus	pfc_RefreshItem
KeyDown	pfc_RefreshLevel
ItemExpanding	pfc_RenameItem
pfc_AcceptText	pfc_Retrieve
pfc_AddAll	pfc_SearchCompare
pfc_AddItem	pfc_SetItemAttributes
pfc_DeleteItem	pfc_Undo
pfc_InsertItem	pfc_Update
pfc_NewItem	pfc_UpdatePrep
pfc_Populate	pfc_UpdatesPending

pfc_PostUpdate
pfc_PreDeleteItem
pfc_PreInsertItem
pfc_Validation
RightClicked

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

BeginDrag event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Saves the handle of a dragged item in the il_dragsource public instance variable.

Usage

This event executes when the user drags a label.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

Destructor event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Destroys all enabled service objects.

Usage

This event executes when the TreeView is destroyed or the window closes.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

DragDrop event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Saves the handle of the dropped item in the il_dragtarget instance variable.

Usage

This event executes when the user releases a dragged object over the TreeView.

You should extend this event to allow dragging and dropping of TreeView items from one branch to another. Be sure to verify that the drag source is the current TreeView control.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

EndLabelEdit event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Updates the DataStore with user edits to the item label.

This function updates the DataStore only. You must update the database explicitly, using the of_Update function or the w_master pfc_Save process.

Usage

This event executes when the user finishes editing an item label.

If you are using computed columns to display item labels, override this event to update DataStore rows as appropriate.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

GetFocus event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event executes when the control receives focus. It triggers the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

KeyDown event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Checks to see if the delete key was pressed.

Usage

This event executes when the user presses a key and is not editing a label.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

ItemExpanding event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Populates an item with its children.

Usage

This event executes when the user expands an item.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_AcceptText event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Accepts text for the data displayed in a TreeView control, optionally setting focus if an error occurs.

Syntax

instancename.EVENT **pfc_AcceptText** (*controls*, *focusonerror*)

Argument	Description
instancename	Instance name of u_tvs
controls	PowerObject array containing the objects on which to accept text. This argument is accessed through the *apo_control* argument
focusonerror	Boolean indicating whether focus should be set if an error occurs. This argument is accessed through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform additional accept text processing.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

pfc_AddAll event (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_977')}

Description

Adds all rows in the passed DataStore under the specified TreeView item.

Syntax

instancename.EVENT **pfc_AddAll** (*parent*, *data*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new items are added. This argument is accessed through the *al_parent* argument
data	N_ds-based DataStore containing rows to be added. This argument is accessed through the *ads_source* argument

Return value

Long. Returns the number of items added if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

pfc_AddAll event (u_tvs)

This example is from the of_Populate function:

```
...

Return this.event pfc_AddAll(al_parent, lds_data)
...
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with

HelpNDoc's step-by-step guide

pfc_AddItem event (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_979')}
```

Description

Adds the specified row as the last item under the specified parent.

Syntax

*instancename.*EVENT **pfc_AddItem** (*parent*, *data*, *row*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is added. This argument is accessed through the *al_parent* argument
data	N_ds-based DataStore containing the row to be added. This argument is accessed through the *ads_source* argument
row	Long specifying the row containing the data to be added to the TreeView. This argument is accessed through the *al_row*argument

Return value

Long. Returns the handle of the new item if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_AddItem event (u_tvs)

This example is from the of_AddItem function:

```
...

ll_newindex = this.event pfc_additem  &
   (al_parent, lds_datastore, ll_row)
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_DeleteItem event (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_981')}
```

Description

Deletes the selected item from the TreeView and the DataStore.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

pfc_DeleteItem event (u_tvs)

This example calls the pfc_DeleteItem event:

```
...

li_return = tv_1.Event pfc_DeleteItem()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_InsertItem event (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_983')}
```

Description

Inserts a new item into the TreeView.

Syntax

instancename.EVENT **pfc_InsertItem** (*parent*, *datastore*, *row*, *position*, *item*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is added. This argument is accessed through the *al_parent* argument
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_tvsrv_levelsource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_tvsrv_levelsource. This argument is accessed through the *ads_source* argument
row	Long specifying the row containing the item to be inserted. This argument is accessed through the *al_row*argument
position	String specifying the position under the current parent in which to insert the new item Values are: • First • Last • Sort • After This argument is accessed through the *as_position* argument
item	Long containing the handle to the item before the item to be inserted. The function uses this argument if you specify After for *position*. This argument is accessed through the *al_handle* argument

Return value

Integer. Returns the handle of the new item if the function succeeds and -1 if an error occurs.

Usage

This event calls the pfc_SetItemAttributes and pfc_PreInsertItem events before inserting the item.

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

pfc_InsertItem event (u_tvs)

This example is from the pfc_AddAll event:

```
...

For ll_row = 1 to ll_rowcount        If this.event pfc_insertitem(al_parent,  &
      ads_source, ll_row, "last", 0) < 1 then
         Return -1
        End If
        ll_count++
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_NewItem event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event that you extend to add information to both the data source and the TreeView.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

You typically use this event to open a dialog box prompting the user for complete information, adding it to the data source and the TreeView (via the n_cst_tvsrv_levelsource of_InsertItem function) when it closes.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_Populate event (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_986')}

Description

Retrieves the data source and uses it to populate the TreeView as children of the specified parent.

Syntax

*instancename.*EVENT **pfc_Populate** (*parent*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new items are added. This argument is accessed through the *al_parent* argument

Return value

Long. Returns the number of items added if the event succeeds and -1 if an error occurs.

Usage

You must also add code to the pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

pfc_Populate event (u_tvs)

This example is from the ItemExpanding event:

```
...

If This.FindItem(ChildTreeItem!, handle) = -1 Then
        if this.GetItem(handle, ltvi_This) = 1 then
        li_rc = this.event pfc_Populate(handle)
        If li_rc < 1 Then
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_PostUpdate event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Calls the n_cst_luw of_PostUpdate function to perform post-update processing on the specified controls.

Syntax

instancename.EVENT **pfc_PostUpdate** (*controls*)

Argument	Description
instancename	Instance name of u_tvs
controls	PowerObject array containing the objects on which to perform post-update processing. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform additional post-update processing.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

pfc_PreDeleteItem event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you add logic to perform pre-delete processing.

Syntax

instancename.EVENT **pfc_PreDeleteItem** (*handle*)

Argument	Description
instancename	Instance name of u_tvs
handle	Long specifying the handle of the TreeView item to be deleted. This argument is accessed through the *al_handle* argument

Usage

The pfc_DeleteItem event calls this event.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_PreInsertItem event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you add logic to perform pre-insert processing.

Syntax

instancename.EVENT **pfc_PreInsertItem** (*parent*, *data*, *row*, *tvitem*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is added. This argument is accessed through the *al_parent* argument
data	N_ds containing the data for the new item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the new item. This argument is accessed through the *al_row*argument
tvitem	TreeViewItem to be inserted. This argument is accessed through the *atvi_item* argument (passed by reference)

Usage

The pfc_InsertItem event calls this event.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_PreRefreshItem event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you add logic that changes properties before a TreeView item is refreshed.

Syntax

*instancename.*EVENT **pfc_PreRefreshItem** (*handle*, *data*, *row*, *tvitem*)

Argument	Description
instancename	Instance name of u_tvs
handle	Long specifying the handle of the TreeView item to be refreshed. This argument is accessed through the *al_handle* argument
data	N_ds containing the data for the refreshed item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the refreshed item. This argument is accessed through the *al_row*argument
tvitem	TreeViewItem to be refreshed. This argument is accessed through the *atvi_item* argument (passed by reference)

Usage

The pfc_RefreshItem event calls this event. The code you add here will likely be the same as code you add to pfc_PreInsertItem.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

pfc_PreRefreshLevel event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you add logic that executes before a TreeView level is refreshed.

Syntax

*instancename.*EVENT **pfc_PreRefreshLevel** (*level*)

Argument	Description
instancename	Instance name of u_tvs
level	Integer specifying the TreeView level to refresh. This argument is accessed through the *ai_level* argument

Usage

The pfc_RefreshLevel event calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

pfc_PreRmbMenu event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event allowing you to modify m_tvs contents before display.

Syntax

*instancename.*EVENT **pfc_PreRmbMenu** (*editmenu*)

Argument	Description
instancename	Instance name of u_tvs
editmenu	M_tvs variable containing the popup menu to be displayed (passed by reference)

Usage

Optionally add logic to this event to selectively enable and disable m_lvs menu items.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_Properties event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you might add logic to display a Properties dialog.

Return value

Integer. Return 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

pfc_RefreshItem event (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_995')}

Description

Refreshes the specified TreeView item, resetting all properties to the defaults specified in the data source.

Syntax

instancename.EVENT **pfc_RefreshItem** (*handle*)

Argument	Description
instancename	Instance name of u_tvs
handle	Long specifying the handle of the TreeView item to refresh. This argument is accessed through the *ai_level* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

pfc_RefreshItem event (u_tvs)

This example is from the pfc_RefreshLevel event:

```
...

For ll_row = 1 to ll_rowcount
        ll_handle = inv_levelsource.of_GetHandle  &
     (lds_source, ll_row, ai_level)
        If ll_handle < 1 Then Continue
        If this.event pfc_RefreshItem  &
     (ll_Handle) = -1 Then Return -1Next
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

pfc_RefreshLevel event (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_997')}
```

Description

Refreshes the specified TreeView level., resetting all properties to the defaults specified in the data source.

Syntax

*instancename.*EVENT **pfc_RefreshLevel** (*level*)

Argument	Description
instancename	Instance name of u_tvs

level	Integer specifying the TreeView level to refresh

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

pfc_RefreshLevel event (u_tvs)

This example calls the pfc_RefreshLevel event:

```
...

tv_1.Event pfc_RefreshLevel(1)
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

pfc_RenameItem event (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')}
```

Description

Renames the selected item.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

pfc_Retrieve event (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1000')}

Description

Retrieves rows into a data source.

Syntax

instancename.EVENT **pfc_Retrieve** (*parent*, *data*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which new items are retrieved. This argument is accessed through the *al_parent* argument
data	N_ds into which the event places the retrieved rows. This argument is accessed through the *ads_data* argument (passed by reference)

Return value

Long. Returns the number of items retrieved if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform retrieval.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

pfc_Retrieve event (u_tvs)

This example shows code you might add to the pfc_Retrieve event:

```
Any   la_args[20]

Integer   li_level

IF IsValid(inv_levelsource) THEN
        li_level = this.of_GetNextLevel(al_parent)
        this.inv_levelsource.of_GetArgs(al_parent,  &
      li_level, la_args)
END IF

Return this.of_Retrieve(al_parent, la_args,  &
   ads_data)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

pfc_SearchCompare event (u_tvs)

`{button Object,JI(`>main',`bfcbihba')}`

Description

Compares TreeView data or item text with a target string.

Syntax

instancename.EVENT **pfc_SearchCompare** (*handle*, *attribute*, *target*, *respectcase*, *fullcompare*)

Argument	Description
instancename	Instance name of u_tvs
handle	Long containing the handle of the item being compared
attribute	String specifying the TreeView attribute to compare. Valid values are: • Data • Label
target	Any data type specifying the search target
respectcase	Boolean indicating whether the search is case-sensitive
fullcompare	Boolean indicating whether the specified attribute must match *target* exactly (TRUE) or the attribute can simply contain *target* (FALSE). This argument only applies when *target* is a string

Return value

Boolean. Returns TRUE if a match is found and FALSE if no match is found.

Usage

This event is called by the n_cst_tvsrv of_SearchChild function, which is called by of_FindItem.

If your application requires a more complex comparison, override this event.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

pfc_SetItemAttributes event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Sets default properties for the TreeView item before insertion.

Syntax

*instancename.*EVENT **pfc_SetItemAttributes** (*parent*, *data*, *row*, *tvitem*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is inserted. This argument is accessed through the *al_parent* argument
data	N_ds containing the data for the item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row from which to populate the item. This argument is accessed through the *al_row*argument
tvitem	TreeViewItem to be inserted. This argument is accessed through the *atvi_item* argument (passed by reference)

Usage

Optionally extend this event to change TreeView item properties before insertion.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

pfc_Undo event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Cancels the last edit, insert, or delete to the TreeView, restoring the text to the content before the last change.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The message router calls this event when a TreeView based on u_tvs has focus and the user selects Edit>Undo.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_Update event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Calls the n_cst_luw of_Update function to update the specified controls.

Syntax

instancename.EVENT **pfc_Update** (*controls*, *accepttext*, *resetflags*)

Argument	Description

instancename	Instance name of u_tvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument
accepttext	Boolean specifying whether n_cst_luw should automatically perform an AcceptText before performing the Update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether n_cst_luw should automatically reset DataWindow update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Update function calls this event.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

pfc_UpdatePrep event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Empty user event to which you can add code that prepares for update.

Syntax

instancename.EVENT **pfc_UpdatePrep** (*controls*)

Argument	Description
instancename	Instance name of u_tvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this function.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

pfc_UpdatesPending event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Determines if there are pending updates for the TreeView data sources.

Syntax

instancename.EVENT **pfc_UpdatesPending** (*controls*, *pending*)

Argument	Description
instancename	Instance name of u_tvs
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

pending	PowerObject array into which the event places objects with pending updates. This argument is accessed through the *apo_pending* argument (passed by reference)

Return value

Integer. Returns 1 if there are pending updates, 0 if there are no pending updates, and -1 if an error occurs.

Usage

This event is called by the of_GetUpdatesPending function.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

pfc_Validation event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Checks for required fields.

Syntax

instancename.EVENT **pfc_Validation** (*controls*)

Argument	Description
instancename	Instance name of u_tvs
controls	PowerObject array containing the objects to validate. This argument is accessed through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the of_Validation function.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

RightClicked event (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Description

Tracks the clicked item and displays the m_tvs popup menu.

Usage

This event executes when the user presses the right mouse button.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

u_tvs

{button Events,JI(`>list_win',`id_pfcoref_967')} {button Instance variables,JI(`>list_win',`id_pfcoref_966')}

of_AcceptText function

of_AddItem function

of_CanUndo function

of_GetInfo function

of_GetNextLevel function

of_GetObjects function

of_GetParentWindow function

of_GetUpdateRequestor function

of_InsertItem function

of_IsAlwaysValidate function

of_IsRMBMenu function

of_IsUpdateable function

of_MessageBox function

of_Populate function

of_PostUpdate function

of_Reset function

of_Retrieve function

of_SetAlwaysValidate function

of_SetBase function

of_SetLevelSource function

of_SetLogicalUnitOfWork function

of_SetPrint function

of_SetRMBMenu function

of_SetUpdateable function

of_SetUpdateRequestor function

of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

U_tvs includes precoded object functions:

of_AcceptText	of_Reset
of_AddItem	of_Retrieve
of_CanUndo	of_SetAlwaysValidate
of_GetInfo	of_SetBase
of_GetNextLevel	of_SetLevelSource
of_GetObjects	of_SetLogicalUnitOfWork
of_GetParentWindow	of_SetPrint
of_GetUpdateRequestor	of_SetRMBMenu
of_InsertItem	of_SetUpdateable
of_IsAlwaysValidate	of_SetUpdateRequestor
of_IsRMBMenu	of_Update
of_IsUpdateable	of_UpdatePrep

of_MessageBox
of_Populate
of_PostUpdate
of_UpdatesPending
of_Validation

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_AcceptText function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1011')}

Description

Performs an AcceptText function for each level's data source.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of u_tvs
focusonerror	Boolean indicating whether PFC sets focus to the first item in error when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_AcceptText function (u_tvs)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_AddItem function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1013')}
```

Description

Adds a new item as the last item under the specified parent.

Access

Public

Syntax

instancename.**of_AddItem** (*parent*, *rowinfo*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is inserted
rowinfo	Any array containing data for the row

Return value

Long. Returns the index of the added item if the function succeeds and -1 if an error occurs.

Usage

If the information in *rowinfo* is not already in the data source, this function adds the new row to the data source. If you are using the TreeView level source service, the data types of the elements in *rowinfo* must match those in the DataWindow object specified in the n_cst_tvsrv_levelsource of_Register function.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_AddItem function (u_tvs)

This example is from the of_Refresh function:

```
Long  ll_return

Long  ll_handle
Any  la_row[ ]
TreeViewItem  ltvi_item

ll_handle = tv_1.FindItem(CurrentTreeItem! , 0)
tv_1.GetItem(ll_handle, ltvi_item)
IF ltvi_item.Level = 1 THEN
    la_row[1] = 1100
    la_row[2] = "Department of Defense"
    ll_return = tv_1.of_AddItem(ll_handle, la_row)
    tv_1.Event pfc_RefreshLevel(ltvi_item.Level)
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_CanUndo function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1015')}
```

Description

Reports whether the TreeView can undo the last edit, insertion, or deletion, returning the operation type.

Access

Public

Syntax

instancename.**of_CanUndo** (*undotype*)

Argument	Description
instancename	Instance name of u_tvs
undotype	String into which the function places the type of the last operation (passed by reference): • **UNDO_EDIT or "Edit"** Edit • **UNDO_INSERT or "Insert"** Insertion • **UNDO_DELETE or "Delete"** Deletion

Return value

Boolean. Returns TRUE if the last operation can be undone and FALSE if it cannot.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_CanUndo function (u_tvs)

This example calls the of_CanUndo function:

```
String  ls_undotype


IF tv_1.of_CanUndo(ls_undotype) THEN
   MessageBox("TreeView", "Can undo")
ELSE
   MessageBox("TreeView", "Cannot undo")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_GetInfo function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1017')}
```

Description

Retrieves object information.

Access

Public

Syntax

instancename.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of u_tvs
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetInfo function (u_tvs)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


tv_1.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetNextLevel function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1019')}
```

Description

Determines the DataStore level below the passed parent.

Access

Public

Syntax

instancename.**of_GetNextLevel** (*parent*)

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item for which the next lowest level is returned

Return value

Long. Returns the number of the level below *parent* if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetNextLevel function (u_tvs)

This example is from the pfc_PreRetrieve event:

```
...

If isvalid(inv_levelsource) then
        li_level = of_GetNextLevel(al_parent)
        If li_level < 1 then Return
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_GetObjects function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1021')}
```

Description

Retrieves the objects to be updated.

Access

Protected

Syntax

instancename.**of_GetObjects** (*objects*)

Argument	Description
instancename	Instance name of u_tvs
objects	PowerObject array into which the function places objects to be updated (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_GetObjects function (u_tvs)

This example is from the of_AcceptText function:

```
...

Else
        this.of_Getobjects(lpo_updatearray)
End If
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetParentWindow function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1023')}
```

Description

Returns the parent of the current window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*parent*)

Argument	Description
instancename	Instance name of u_tvs
parent	Window variable into which the function places the parent of the current window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_GetParentWindow function (u_tvs)

This example is from the GetFocus event.

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetUpdateRequestor function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')}
```

Description

Retrieves a reference to the object requesting an update.

Access

Public

Syntax

instancename.**of_GetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of u_tvs
requestor	PowerObject into which the function places a reference to the object requesting the update (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if there is no update requestor and -1 if an error occurs.

Usage

Call this function if you are extending the pfc_Save process and need to access the update requestor.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_InsertItem function (u_tvs)

{button Object,JI(`>main',`bfcbihba')}

Inserts an item into the TreeView. There are two syntaxes:

To	Use
Insert from a DataStore	Syntax 1
Insert from an array	Syntax 2

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

Syntax 1 Insert an item from a DataStore

Syntax 1 Insert an item from a DataStore

{button Examples,JI(`>Examples',`id_pfcoref_1027')}

Description

Adds a new item to the TreeView using a row from a DataStore.

Access

Public

Syntax

instancename.**of_InsertItem** (*parent*, *datastore*, *row* {, *position*, *handle* })

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is inserted
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_tvsrv_levelsource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_tvsrv_levelsource (passed by reference)
row	Long specifying the row from which to populate the new item
position (optional)	String specifying the position under the current parent in which to insert the new item Values are: • First

	• Last (default) • Sort • After
handle (optional)	Long containing the handle of the TreeView item after which the item is added. The function uses this argument if you specify After for *position*

Return value

Long. Returns the handle of the new item if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

Syntax 1 Insert an item from a DataStore

This example calls the of_InsertItem function:

```
Long  ll_row, ll_handle

TreeViewItem  ltvi_item

ll_handle = tv_1.FindItem(CurrentTreeItem! , 0)
tv_1.GetItem(ll_handle, ltvi_item)
ll_row = ids_datastore.GetRow()
IF ltvi_item.Level = 1 THEN
   ll_return = tv_1.of_InsertItem  &
      (ll_handle, ids_data, ll_row, "Sorted", 0)
END IF
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

Syntax 2 Insert an item from an array

Syntax 2 Insert an item from an array

{button Examples,JI(`>Examples',`id_pfcoref_1029')}

Description

Adds a new item to the TreeView using a value from an array.

Access

Public

Syntax

instancename.**of_InsertItem** (*parent*, *colvalues* {, *position*, *handle* })

Argument	Description
instancename	Instance name of u_tvs
parent	Long specifying the handle of the TreeView item under which the new item is inserted
colvalues	Any array containing data for the TreeView
position (optional)	String specifying the position under the current parent in which to insert the new item Values are: • First • Last (default) • Before • After

handle (optional)	Long containing the handle of the TreeView item after which the item is added. The function uses this argument if you specify After for *position*

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Usage

If you are using the TreeView level source service, the data types of the elements in *colvalues* must match those in the DataWindow object specified in the n_cst_tvsrv_levelsource of_Register function.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

Syntax 2 Insert an item from an array

This example calls the of_InsertItem function:

```
Any  la_row[ ]

Long  ll_handle
TreeViewItem ltvi_item

ll_handle = tv_1.FindItem(CurrentTreeItem! , 0)
la_row[1] = 1200
la_row[2] = "Commerce"
tv_1.of_InsertItem(ll_handle, la_row, "First", 0)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_IsAlwaysValidate function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1031')}
```

Description

Reports whether the default save process always performs validation.

Access

Public

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Boolean. Returns TRUE if the default save process always performs validation and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_IsAlwaysValidate function (u_tvs)

This example calls the of_IsAlwaysValidate function:

```
IF tv_1.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("TV", "Always validate")
ELSE
   MessageBox("TV", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_IsRMBMenu function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1033')}
```

Description

Reports whether the popup menu is enabled.

Access

Public

Syntax

instancename.**of_IsRMBMenu** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Boolean. Returns TRUE if the m_tvs popup menu is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_IsRMBMenu function (u_tvs)

This example calls the of_IsRmbMenu function:

```
IF tv_1.of_IsRMBMenu() = TRUE THEN

   MessageBox("TV", "RMB enabled")
ELSE
   MessageBox("TV", "RMB disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_IsUpdateable function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1035')}
```

Description

Reports whether the TreeView's data source is updatable.

Access

Public

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Boolean. Returns TRUE if the TreeView's data source is updatable and FALSE if it is not.

Usage

The pfc_UpdatesPending event calls this function.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_IsUpdateable function (u_tvs)

This example is from the pfc_UpdatesPending event:

```
...

If Not of_IsUpdateable() Then Return NO_UPDATESPENDING
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_MessageBox function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1037')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_tvs
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text

icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in TreeViews.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_MessageBox function (u_tvs)

This example calls the of_MessageBox function:

```
of_Messagebox('tv_error','Save', &

   as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_Populate function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1039')}
```

Description

Populates a TreeView item with its child items.

Access

Public

Syntax

instancename.**of_Populate** (*parent*)

Argument	Description
instancename	Instance name of u_tvs

parent	Long specifying the handle of the handle of the TreeView item to be populated

Return value

Integer. Returns the number of items added if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_Populate function (u_tvs)

The example is from the pfc_Populate event:

```
IF (al_parent < 0) or IsNull(al_parent) then Return -1

Return of_populate(al_parent)
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_PostUpdate function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1041')}
```

Description

Calls the pfc_PostUpdate event, which clears update flags and allows you to code additional post-update processing.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To customize post update processing, extend the pfc_PostUpdate event.

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_PostUpdate function (u_tvs)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_Reset function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1043')}

Description

Deletes all items from both the TreeView and the data source.

Access

Public

Syntax

instancename.**of_Reset** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Reset function (u_tvs)

This example calls the of_Reset function:

```
tv_1.of_Reset()
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_Retrieve function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1045')}

Description

Retrieves rows into a DataStore.

Syntax

instancename.EVENT **of_Retrieve** (*parent*, *args*, *data*)

Argument	Description
instancename	Instance name of u_tvs

parent	Long specifying the handle of the TreeView item under which new items are retrieved
args	20-element Any array specifying retrieval arguments
data	N_ds into which the function places the retrieved rows (passed by reference)

Return value

Long. Returns the number of items retrieved if the function succeeds, 0 if no action was taken, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_Retrieve function (u_tvs)

This example (from a pfc_Retrieve event) calls the of_Retrieve function:

```
Any   la_args[20]

Integer   li_level

IF IsValid(inv_levelsource) THEN
        li_level = this.of_GetNextLevel(al_parent)
        this.inv_levelsource.of_GetArgs(al_parent,  &
      li_level, la_args)
END IF

Return this.of_Retrieve(al_parent, la_args,  &
   ads_data)
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_SetAlwaysValidate function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1047')}
```

Description

Specifies whether the default save process always performs validation.

Access

Public

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether the default save process always perform validation (TRUE) or only performs validation if a control has pending updates (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetAlwaysValidate function (u_tvs)

This example calls the of_SetAlwaysValidate function:

```
tv_1.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetBase function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1049')}

Description

Enables or disables n_cst_tvsrv, which provides basic TreeView services.

Access

Public

Syntax

instancename.**of_SetBase** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) basic TreeView services

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_tvsrv. This instance is named inv_base.

Because all TreeView services are descendants of n_cst_tvsrv (and have n_cst_tvsrv functions available to them), use this object when you require basic TreeView services only.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_SetBase function (u_tvs)

This example calls the of_SetBase function to enable basic TreeView services:

```
tv_1.of_SetBase(TRUE)
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SetLevelSource function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1051')}

Description

Enables or disables n_cst_tvsrv_levelsource, which provides data access for TreeView levels.

Access

Public

Syntax

instancename.**of_SetLevelSource** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_tvsrv_levelsource

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_tvsrv_levelsource. This instance is named inv_levelsource.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_SetLevelSource function (u_tvs)

This example calls the of_SetLevelSource function:

```
tv_1.of_SetLevelSource(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetLogicalUnitOfWork function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1053')}

Description

Enables or disables n_cst_luw, which provides the logical unit of work service.

Access

Protected

Syntax

instancename.**of_SetLogicalUnitOfWork** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_luw

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_luw. This instance is named inv_luw. If you do not enable n_cst_luw, u_tvs enables it automatically.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetLogicalUnitOfWork function (u_tvs)

This example calls the of_SetLogicalUnitOfWork function:

```
tv_1.of_SetLogicalUnitOfWork(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetPrint function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1055')}

Description

Enables or disables n_cst_tvsrv_print, which provides the TreeView print service.

Access

Public

Syntax

instancename.**of_SetPrint** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the TreeView print service

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_tvsrv_print. This instance is named inv_print.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetPrint function (u_tvs)

This example calls the of_SetPrint function:

```
tv_1.of_SetPrint(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with

HelpNDoc

of_SetRMBMenu function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1057')}

Description

Enables or disables right mouse button support for m_tvs, the TreeView popup menu.

Access

Public

Syntax

instancename.**of_SetRMBMenu** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) right mouse button support

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetRMBMenu function (u_tvs)

This example calls the of_SetRMBMenu function:

```
tv_1.of_SetRMBMenu(TRUE)
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetUpdateable function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1059')}

Description

Specifies whether the TreeView is updatable and should be included in the default save process.

Access

Public

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of u_tvs
boolean	Boolean indicating whether the TreeView is updatable. All updatable TreeViews are included in the default save processing

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable default save processing for TreeViews that are updatable (by default, TreeViews are not updatable).

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetUpdateable function (u_tvs)

This example calls the of_SetUpdateable function:

```
tv_1.of_SetUpdateable(FALSE)
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_SetUpdateRequestor function (u_tvs)

{button Object,JI(`>main',`bfcbihba')} {button Examples,JI(`>Examples',`id_pfcoref_1061')}

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of u_tvs
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_SetUpdateRequestor function (u_tvs)

This example is from the of_Update function:

```
...

If IsValid(inv_luw) Then
        inv_luw.of_SetUpdateRequestor(apo_requestor)
End If

...
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_Update function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1063')}
```

Description

Saves all rows in the DataStores associated with the TreeView.

Access

Public

Syntax

instancename.**of_Update** (*accept*, *resetflag* {, *requestor* })

Argument	Description
instancename	Instance name of u_tvs
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags
requestor	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the update succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_Update function (u_tvs)

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_UpdatePrep function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1065')}
```

Description

Calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_UpdatePrep function (u_tvs)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep ()
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_UpdatesPending function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1067')}
```

Description

Determines if there are updates pending in the DataStores associated with the TreeView.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_UpdatesPending function (u_tvs)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
        la_rc = lpo_tocheck.Dynamic of_UpdatesPending ()
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_Validation function (u_tvs)

```
{button Object,JI(`>main',`bfcbihba')} {button
Examples,JI(`>Examples',`id_pfcoref_1069')}
```

Description

Performs validation on the TreeView data sources.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of u_tvs

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_Validation function (u_tvs)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

u_vpb

```
{button See also,PI(`',`id_pfcoref_1071')} {button
Functions,JI(`>list_win',`id_pfcoref_1074')} {button
Events,JI(`>list_win',`id_pfcoref_1072')}
```

Description

VerticalProgressBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder VerticalProgressBar control.

U_vpb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

u_vpb

u_hpb

u_progressbar

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

u_vpb

{button Functions,JI(`>list_win',`id_pfcoref_1074')}

GetFocus event

U_vpb includes one precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

GetFocus event (u_vpb)

{button Object,JI(`>main',`babdcifd')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

u_vpb

{button Events,JI(`>list_win',`id_pfcoref_1072')}

of_GetParentWindow function

of_MessageBox function

U_vpb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetParentWindow function (u_vpb)

{button Object,JI(`>main',`babdcifd')} {button Examples,JI(`>Examples',`id_pfcoref_1076')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_vpb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_vpb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetParentWindow function (u_vpb)

This example is from the u_vpb GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_MessageBox function (u_vpb)

```
{button Object,JI(`>main',`babdcifd')} {button
Examples,JI(`>Examples',`id_pfcoref_1078')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_vpb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in VerticalProgressBar controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_MessageBox function (u_vpb)

This example calls the of_MessageBox function:

```
of_Messagebox('vpb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

u_vsb

```
{button See also,PI(`',`id_pfcoref_1080')} {button
Functions,JI(`>list_win',`id_pfcoref_1083')} {button
Events,JI(`>list_win',`id_pfcoref_1081')}
```

Description

VerticalScrollBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder VerticalScrollBar control.

U_vsb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

u_vsb

u_hsb

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

u_vsb

{button Functions,JI(`>list_win',`id_pfcoref_1083')}

GetFocus event

U_vsb includes one precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

GetFocus event (u_vsb)

{button Object,JI(`>main',`bfcbjadh')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

u_vsb

{button Events,JI(`>list_win',`id_pfcoref_1081')}

of_GetParentWindow function

of_MessageBox function

U_vsb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetParentWindow function (u_vsb)

{button Object,JI(`>main',`bfcbjadh')} {button Examples,JI(`>Examples',`id_pfcoref_1085')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_vsb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_vsb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetParentWindow function (u_vsb)

This example is from the u_vsb GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_MessageBox function (u_vsb)

```
{button Object,JI(`>main',`bfcbjadh')} {button
Examples,JI(`>Examples',`id_pfcoref_1087')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_vsb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in VerticalScrollBar controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_MessageBox function (u_vsb)

This example calls the of_MessageBox function:

```
of_Messagebox('vsb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

u_vtb

```
{button See also,PI(`',`id_pfcoref_1089')} {button
Functions,JI(`>list_win',`id_pfcoref_1092')} {button
Events,JI(`>list_win',`id_pfcoref_1090')}
```

Description

VerticalTrackBar visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

PFC visual user objects are designed to be used with windows that are descendants of w_master.

Usage

Use this visual object in windows instead of the standard PowerBuilder VerticalTrackBar control.

U_vtb event scripts provide integration with PFC menus.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

u_vtb

u_htb

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

u_vtb

{button Functions,JI(`>list_win',`id_pfcoref_1092')}

GetFocus event

U_vtb includes one precoded event script:

GetFocus

Created with the Personal Edition of HelpNDoc: Free Web Help generator

GetFocus event (u_vtb)

{button Object,JI(`>main',`babdeede')}

Description

Updates the parent window so it can set MicroHelp.

Usage

This event calls the pfc_ControlGotFocus event in the parent.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

u_vtb

{button Events,JI(`>list_win',`id_pfcoref_1090')}

of_GetParentWindow function

of_MessageBox function

U_vtb includes precoded object functions:

of_GetParentWindow

of_MessageBox

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_GetParentWindow function (u_vtb)

{button Object,JI(`>main',`babdeede')} {button Examples,JI(`>Examples',`id_pfcoref_1094')}

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_vtb
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window. If no parent window is found, *window* returns NULL.

Usage

The u_vtb GetFocus event calls this function.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_GetParentWindow function (u_vtb)

This example is from the u_vtb GetFocus event:

```
Window  lw_parent


IF gnv_app.of_GetMicrohelp() THEN
        of_GetParentWindow(lw_parent)
        IF IsValid(lw_parent) THEN
       lw_parent.Dynamic Event &
          pfc_ControlGotFocus (this)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_MessageBox function (u_vtb)

```
{button Object,JI(`>main',`babdeede')} {button
Examples,JI(`>Examples',`id_pfcoref_1096')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of u_vtb
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in VerticalTrackBar controls.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_MessageBox function (u_vtb)

This example calls the of_MessageBox function:

```
of_Messagebox('vtb_error','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

Custom Visual User Objects

About this chapter

This chapter describes the custom visual user objects in PFC.

Contents

The custom visual user objects are listed in alphabetical order. Each object's discussion includes an alphabetical listing of instance variables, events, and object functions.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

u_base

{button See also,PI(`',`id_pfcoref_1100')} {button Functions,JI(`>list_win',`id_pfcoref_1111')} {button Events,JI(`>list_win',`id_pfcoref_1102')} {button Instance variables,JI(`>list_win',`id_pfcoref_1101')} {button Descendants,JI(`>list_win',`id_pfcoref_1099')}

Description

Base object for custom visual user objects (such as u_calculator and u_calendar).

U_base is a self-updating object.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

n_cst_infoattrib

n_cst_luw

n_cst_resize

Usage

Use this object as the base object for custom visual user objects. U_base contains all the events and functions necessary for a PFC self updating object.

For more on self updating objects see n_cst_luw.

To use u_base:

1 Use the User Object painter to create a descendant of u_base.

2 Add controls, events, and functions as necessary.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

u_base

u_calculator

u_calendar

u_progressbar

u_tabpg

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

u_base

n_base

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

u_base

{button Functions,JI(`>list_win',`id_pfcoref_1111')} {button Events,JI(`>list_win',`id_pfcoref_1102')}

U_base includes instance variables:

Instance variable	Description	Data type	Access	Usage
CONTINUE_ACTION	Constant set to 1	Integer	Public	Internal
FAILURE	Constant set to -1	Integer	Public	Internal
ib_alwaysvalidate	Controls whether the save process includes all objects in the validation process	Boolean	Protected	Set with of_SetAlwaysValidate (default is FALSE)
ib_isupdateable	Indicates whether the object can be updated	Boolean	Protected	Set with of_SetUpdateable (default is FALSE)
inv_luw	Reference variable for logical unit of work service	n_cst_luw	Protected	Set with of_SetLogicalUnitOfWork
inv_resize	Reference variable for resize service	n_cst_resize	Public	Set with of_SetResize
ipo_pendingupdates[ ]	Default list of objects to be updated	PowerObject	Protected	Internal
ipo_updateobjects[ ]	Customized list of objects to be updated	PowerObject	Protected	Internal
ipo_tempupdateobjects[ ]	One-time list of objects to be updated	PowerObject	Protected	Internal
ipo_updaterequestor	Owner of the save process	PowerObject	Protected	Internal
NO_ACTION	Constant set to 0	Integer	Public	Internal
PREVENT_ACTION	Constant set to 0	Integer	Public	Internal
SUCCESS	Constant set to 1	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

u_base

{button Functions,JI(`>list_win',`id_pfcoref_1111')} {button Instance variables,JI(`>list_win',`id_pfcoref_1101')}

- Destructor event
- pfc_AcceptText event
- pfc_PostUpdate event
- pfc_Update event
- pfc_UpdatePrep event
- pfc_UpdatesPending event
- pfc_Validation event
- Resize event

U_base includes precoded events:

Destructor
pfc_AcceptText
pfc_PostUpdate
pfc_Update
pfc_UpdatePrep
pfc_UpdatesPending
pfc_Validation
Resize

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

Destructor event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Destroys all enabled service objects.

Usage

This event executes when the control is destroyed or the window closes.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

pfc_AcceptText event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Calls the n_cst_luw of_AcceptText function, which in turn calls the of_AcceptText function for all controls that implement it.

Syntax

instancename.EVENT **pfc_AcceptText** (*controlarray*, *focusonerror*)

Argument	Description
instancename	Instance name of the u_base descendant
controlarray	PowerObject array containing the controls for which to accept text. From within the pfc_AcceptText event, access this value through the *apo_control* argument
focusonerror	Boolean specifying whether to set focus on a DataWindow column with errors. From within the pfc_AcceptText event, access this value through the *ab_focusonerror* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The of_AcceptText function calls this event.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_PostUpdate event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Calls the n_cst_luw of_PostUpdate function, which in turn calls the of_PostUpdate function for all controls that implement it.

Syntax

instancename.EVENT **pfc_PostUpdate** (*controlarray*)

Argument	Description
instancename	Instance name of the u_base descendant
controlarray	PowerObject array containing the controls for which to perform post update processing. From within the pfc_AcceptText event, access this value through the *apo_control* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The of_PostUpdate function calls this event.

You can extend this event to perform additional post-update processing.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

pfc_Update event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Calls the n_cst_luw of_Update function, which in turn calls the of_Update function for all controls that implement it.

Syntax

instancename.EVENT **pfc_Update** (*controlarray*)

Argument	Description
instancename	Instance name of the u_base descendant
controlarray	PowerObject array containing the controls to be updated. From within the pfc_Update event, access this value through the ***apo_control*** argument

Return value

Integer. Returns 1 if the event succeeds and -1 if one or more update errors occur.

Usage

The of_Update function calls this event.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_UpdatePrep event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Empty user event to which you can add code that prepares for update.

Syntax

instancename.EVENT **pfc_UpdatePrep** (*controls*)

Argument	Description
instancename	Instance name of the u_base descendant
controls	PowerObject array containing the objects to update. This argument is accessed through the *apo_control* argument

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_UpdatesPending event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Calls the n_cst_luw of_UpdatesPending function, which in turn calls the of_UpdatesPending function for all controls that implement it.

Syntax

instancename.EVENT **pfc_UpdatesPending** (*controlarray*)

Argument	Description
instancename	Instance name of the u_base descendant
controlarray	PowerObject array containing controls to be tested for pending updates

Return value

Integer. Returns values as follows:

1 Pending updates were found

0 No pending updates

-1 AcceptText failed

Usage

The of_UpdatesPending function calls this event.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

pfc_Validation event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Calls the n_cst_luw of_Validation function, which in turn calls the of_Validation function for all controls that implement it.

Syntax

instancename.EVENT **pfc_Validation** (*controlarray*)

Argument	Description
instancename	Instance name of the u_base descendant
controlarray	PowerObject control array containing controls to be validate

Return value

Integer. Returns 1 if there are no validation errors and -1 if a validation error occurs.

Usage

The of_Validation function calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

Resize event (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Triggers resize processing, if enabled for the object.

Usage

This event executes when the user resizes the window and the custom visual user object instance has been registered with the window or tab on which it is placed.

To enable resize processing, you must enabled the resize service for the u_base descendant instance and for the window or tab containing the instance.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

u_base

{button Events,JI(`>list_win',`id_pfcoref_1102')} {button Instance variables,JI(`>list_win',`id_pfcoref_1101')}

of_AcceptText function
of_GetInfo function
of_GetParentWindow function
of_GetUpdateObjects function
of_IsAlwaysValidate function
of_IsUpdateable function
of_MessageBox function
of_PostUpdate function
of_SetAlwaysValidate function
of_SetLogicalUnitOfWork function
of_SetResize function
of_SetUpdateable function
of_SetUpdateObjects function
of_SetUpdateRequestor function
of_Update function
of_UpdatePrep function

of_UpdatesPending function

of_Validation function

U_base contains precoded object functions:

- of_AcceptText
- of_GetInfo
- of_GetParentWindow
- of_GetUpdateObjects
- of_IsAlwaysValidate
- of_IsUpdateable
- of_MessageBox
- of_PostUpdate
- of_SetAlwaysValidate
- of_SetLogicalUnitOfWork
- of_SetResize
- of_SetUpdateable
- of_SetUpdateObjects
- of_SetUpdateRequestor
- of_Update
- of_UpdatePrep
- of_UpdatesPending
- of_Validation

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_AcceptText function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1113')}

Description

Calls the pfc_AcceptText event.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of the u_base descendant
focusonerror	Boolean indicating whether PFC sets focus to the first item in error when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_AcceptText function (u_base)

This example is from the n_cst_luw of_AcceptText function:

```
...

If lb_defined Then
    li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
    If li_rc < 0 Then Return -1
```

```
...
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetInfo function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1115')}
```

Description

Retrieves object information.

Access

Public

Syntax

instancename.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of the u_base descendant
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetInfo function (u_base)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


w_emplist.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_GetParentWindow function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1117')}
```

Description

Retrieves a reference to the parent window.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of u_base
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if there is no parent window, and NULL if no parent window is found.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_GetParentWindow function (u_base)

This example calls the of_GetParentWindow function:

```
Integer  li_return

Window  lw_window
...
li_return = uo_calc.of_GetParentWindow(lw_window)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetUpdateObjects function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1119')}
```

Description

Retrieves the current default array of objects affected by the update process.

Access

Protected

Syntax

instancename.**of_GetUpdateObjects** (*objects*)

Argument	Description
instancename	Instance name of the u_base descendant
objects	PowerObject array into which the function places objects to be updated (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetUpdateObjects function (u_base)

This example calls the of_GetUpdateObjects function:

```
PowerObject  lpo_objs[ ]

Integer  li_return, li_count

li_return = this.of_GetUpdateObjects(lpo_objs)
FOR li_count = 1 to li_return
        IF lpo_objs[li_count] = ids_data THEN
       Return 1
        END IF
        NEXT
li_return++
lpo_objs[li_return] = ids_data
Return this.of_SetUpdateObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_IsAlwaysValidate function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1121')}
```

Description

Reports whether the default save process always performs validation.

Access

Protected

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of the u_base descendant

Return value

Boolean. Returns TRUE if the default save process always performs validation and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_IsAlwaysValidate function (u_base)

This example calls the of_IsAlwaysValidate function:

```
IF this.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("Base", "Always validate")
ELSE
   MessageBox("Base", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_IsUpdateable function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1123')}
```

Description

Reports whether the object is updatable.

Access

Protected

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of the u_base descendant

Return value

Boolean. Returns TRUE if the window is updatable and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_IsUpdateable function (u_base)

This example is from the pfc_UpdatesPendingRef event:

```
...

If Not of_IsUpdateable() Then Return NO_UPDATESPENDING
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_MessageBox function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1125')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of the u_base descendant
id	String specifying an ID for the message
title	String specifying the title of the MessageBox

message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in custom visual user objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_MessageBox function (u_base)

This example calls the of_MessageBox function:

```
of_Messagebox('cvuo_error','Save', &

   as_error, StopSign!, Ok!, 1)
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_PostUpdate function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1127')}
```

Description

Calls the pfc_PostUpdate event.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description

instancename	Instance name of the u_base descendant

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_PostUpdate function (u_base)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetAlwaysValidate function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1129')}
```

Description

Specifies whether the default save process always performs validation.

Access

Protected

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description
instancename	Instance name of the u_base descendant
boolean	Boolean specifying whether the default save process always performs validation (TRUE) or only performs validation if a control has pending updates (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SetAlwaysValidate function (u_base)

This example calls the of_SetAlwaysValidate function:

```
this.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetLogicalUnitOfWork function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1131')}

Description

Enables or disables n_cst_luw, which provides the logical unit of work service.

Access

Public

Syntax

instancename.**of_SetLogicalUnitOfWork** (*boolean*)

Argument	Description
instancename	Instance name of the u_base descendant
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) n_cst_luw

Return value

Integer. Returns 1 if the function succeeds, 0 if the service is already enabled, and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_luw. This instance is named inv_luw. If you do not enable n_cst_luw, u_base enables it automatically.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetLogicalUnitOfWork function (u_base)

This example calls the of_SetLogicalUnitOfWork function:

```
this.of_SetLogicalUnitOfWork(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetResize function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1133')}

Description

Enables or disables n_cst_resize (the resize service).

Access

Public

Syntax

instancename.**of_SetResize** (*boolean*)

Argument	Description

instancename	Instance name of u_base
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of n_cst_resize

Return value

Integer. Returns 1 if the function succeeds, 0 if the resize service is already enabled, and -1 if an error occurs.

Usage

After calling this function, apply n_cst_resize functions as necessary to the controls contained in the u_base descendant.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetResize function (u_base)

This example calls the of_SetResize function:

```
this.of_SetResize(TRUE)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetUpdateable function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1135')}

Description

Specifies whether the object is updatable.

Access

Protected

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of the u_base descendant
boolean	Boolean indicating whether the window is updatable

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable default save processing. By default, u_base is not updatable.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_SetUpdateable function (u_base)

This example calls the of_SetUpdateable function:

```
this.of_SetUpdateable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetUpdateObjects function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1137')}

Description

Sets a new default array containing objects for which updates are attempted.

Access

Protected

Syntax

instancename.**of_SetUpdateObjects** (*requestor*)

Argument	Description
instancename	Instance name of u_dw
requestor	PowerObject array containing the object to be updated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to customize the objects updated by the save process. You can even add other windows to the save process.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetUpdateObjects function (u_base)

This example calls the of_SetUpdateObjects function:

```
PowerObject  lpo_objs[ ]

Integer  li_count

lpo_objs = this.control
li_count = UpperBound(lpo_objs)
li_count++
// Update w_other as well as this object
lpo_objs[li_count] = w_other
Return this.of_SetUpdateObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetUpdateRequestor function (u_base)

{button Object,JI(`>main',`bfcbbcea')}

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Protected

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of the u_base descendant
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_Update function (u_base)

{button Object,JI(`>main',`bfcbbcea')} {button Examples,JI(`>Examples',`id_pfcoref_1140')}

Description

Calls the pfc_Update event.

Access

Public

Syntax

instancename.**of_Update** (*accept*, *resetflag* {, *requestor*})

Argument	Description
instancename	Instance name of the u_base descendant
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags
requestor (optional)	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the update succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with

These Security Measures

of_Update function (u_base)

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_UpdatePrep function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1142')}
```

Description

Calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of the u_base descendant

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_UpdatePrep function (u_base)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep()
```

```
    If li_rc < 0 Then Return -1
    Continue
  End If
  ...
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_UpdatesPending function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1144')}
```

Description

Calls the pfc_UpdatesPending event.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of the u_base descendant

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_UpdatesPending function (u_base)

This example calls the of_UpdatesPending function:

```
  ...

  If lb_defined Then
          la_rc = lpo_tocheck.Dynamic of_UpdatesPending()
  ...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_Validation function (u_base)

```
{button Object,JI(`>main',`bfcbbcea')} {button
Examples,JI(`>Examples',`id_pfcoref_1146')}
```

Description

Calls the pfc_Validation event.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of the u_base descendant

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_Validation function (u_base)

This example calls the of_Validation function:

```
...

If lb_defined Then  li_rc =  &
        lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

u_calculator

```
{button Ancestor,JI(`>main',`bfcbbcea')} {button See also,PI(`',`id_pfcoref_1148')}
{button Functions,JI(`>list_win',`id_pfcoref_1158')} {button
Events,JI(`>list_win',`id_pfcoref_1150')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1149')}
```

Description

Calculator object for use with numeric values in DataWindow and EditMask controls. Users use the calculator to enter values and calculations, which the object displays in the associated DataWindow column or EditMask control.

You typically use the calculator object as a dropdown object, displaying when a DataWindow column gets focus or when the user clicks the dropdown arrow. However, you can also place the calculator object directly onto a window.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dropdown

n_cst_calculatorattrib

n_cst_infoattrib

n_cst_propertyattrib

u_dw

u_em

Usage

Use this object with EditMask controls that display numeric or decimal values or with DataWindow

columns that display numeric values. For automatic calculator display, DataWindow columns must use the DropDownListBox edit style. For manual calculator display, DataWindow columns can use the DropDownListBox, Edit, or EditMask edit style.

To use this object for DataWindow columns:

1 Determine which columns in your DataWindow object are appropriate for a dropdown calculator. Use the DataWindow painter to assign the DropDownListBox, Edit, or EditMask edit style to these columns.

2 In the Window painter, define a DataWindow control based on u_dw.

3 Enable the dropdown calculator for the DataWindow by calling the of_SetDropDownCalculator function. This example is from the DataWindow control's Constructor event:

```
this.of_SetDropDownCalculator(TRUE)
```

4 Register one or more columns by calling the of_Register function:

```
this.iuo_calculator.of_Register("salary", &

  this.iuo_calculator.DDLB_WITHARROW))
```

5 Specify whether the dropdown closes on a single-click by calling the of_SetCloseOnClick function:

```
this.iuo_calculator.of_SetCloseOnClick(TRUE)
```

For information on using u_calculator with EditMask controls, see the PFC User's Guide.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

u_calculator

n_cst_dropdown

u_calendar

u_dw

u_em

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

u_calculator

{button Functions,JI(`>list_win',`id_pfcoref_1158')} {button Events,JI(`>list_win',`id_pfcoref_1150')}

U_calculator includes instance variables:

Instance variable	Description	Data type	Access	Usage
DDLB	Constant set to 2	Integer	Public	Use with of_ Register
DDLB_WITHARROW	Constant set to 3	Integer	Public	Use with of_ Register
EMPTY	Constant set to empty string	String	Protected	Internal
ib_closeonclick	Controls close on click	Boolean	Protected	Set with of_SetCloseOnClick
ib_initialvalue	Controls whether blank fields are initialized	Boolean	Protected	Set with of_SetInitialValue

ib_validresetvalue	Reports whether associated field contains a number	Boolean	Protected	Internal
idbl_repeatvalue	Repeat value	Double	Protected	Internal
idbl_value	Running total	Double	Protected	Internal
idrg_requestor	Generic reference	DragObject	Protected	Internal
idw_requestor	Associated DataWindow control	DataWindow	Protected	Internal
iem_requestor	Associated EditMask control	EditMask	Protected	Internal
ii_dwcolumnstyle[]	Edit styles of registered columns	Integer	Protected	Set with of_Register
inv_calculatorattrib	Calculator information	n_cst_calculatorattrib	Protected	Internal
inv_dropdown	Reference to dropdown service	n_cst_dropdown	Public	Internal
is_curroperator	Current operator	String	Protected	Internal
is_currvalue	Current value	String	Protected	Internal
is_dwcolumns[ ]	Registered columns	String	Protected	Set with of_Register
is_dwcolumnsexp[ ]	Original properties for registered columns	String	Protected	Set by of_Register
is_prevkeystroke	Previous key	String	Protected	Internal
is_repeatoperator	Repeat operator	String	Protected	Internal
NONE	Constant set to 1	Integer	Public	Use with of_Register

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

u_calculator

{button Functions,JI(`>list_win',`id_pfcoref_1158')} {button Instance variables,JI(`>list_win',`id_pfcoref_1149')}

- **ButtonClicked event**
- **Constructor event**
- **Destructor event**
- **GetFocus event**
- **Key event**
- **LoseFocus event**
- **pfc_DropDown event**

U_calculator includes precoded events:

ButtonClicked	Key
Constructor	LoseFocus
Destructor	pfc_DropDown
GetFocus	

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

ButtonClicked event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Calls the of_ButtonClicked function.

Controls

Dw_calculator

Usage

This event executes when the user clicks a command button, types a number, types an operator, or types a period.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

Constructor event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Initializes object settings.

Controls

Dw_calculator and u_calculator

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

Destructor event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Destroys the inv_dropdown instance variable.

Controls

U_calculator

Usage

This event executes when the u_calculator instance is destroyed.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

GetFocus event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Calls the of_RedirectFocus function.

Controls

Dw_calculator

Usage

This event executes when a control receives focus, typically by clicking.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

Key event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Determines which key was pressed and calls the of_ButtonClicked function.

Controls

Dw_calculator

Usage

This event executes when the user presses a key.

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

LoseFocus event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Hides the calculator.

Controls

Dw_calculator

Usage

This event executes when the calculator loses focus.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

pfc_DropDown event (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Description

Calls the of_DropDown function.

Controls

U_calculator

Return value

Integer. Returns 1 if the event succeeds, 0 if the DataWindow column has not been registered, and -1 if an error occurs.

Usage

This event is called by the u_dw pfc_DDCalculator event.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

u_calculator

{button Events,JI(`>list_win',`id_pfcoref_1150')} {button Instance variables,JI(`>list_win',`id_pfcoref_1149')}

of_ButtonClicked function

of_DropDown function

of_GetInfo function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetRegistered function

of_GetRegisteredStyle function

of_IsCloseOnClick function

of_IsDropDown function

of_IsInitialValue function

of_IsNumericType function

of_IsOperator function

of_IsRegistered function

of_PerformMath function

of_RedirectFocus function

of_Register function

of_Reset function

of_SetCloseOnClick function

of_SetDropDown function

of_SetFocusOnRequestor function

of_SetInitialValue function

of_SetRequestor function

of_SetValue function

of_SetValueOnRequestor function

of_UnRegister function

U_calculator contains precoded object functions:

of_ButtonClicked
of_DropDown
of_GetInfo
of_GetPropertyInfo
of_GetRegisterable
of_GetRegistered
of_GetRegisteredStyle
of_IsCloseOnClick
of_IsDropDown
of_IsInitialValue
of_IsNumericType
of_IsOperator
of_IsRegistered
of_PerformMath
of_RedirectFocus
of_Register
of_Reset
of_SetCloseOnClick
of_SetDropDown
of_SetFocusOnRequestor
of_SetInitialValue
of_SetRequestor
of_SetValue
of_SetValueOnRequestor
of_UnRegister

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_ButtonClicked function (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')} {button Examples,JI(`>Examples',`id_pfcoref_1160')}

Description

Processes button clicks.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_ButtonClicked** (*key*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
key	String specifying the text of the clicked button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_ButtonClicked function (u_calculator)

This example is from a the u_calculator dw_employee ButtonClicked event:

```
...

If Len(ls_buttontext) > 0 Then
        of_ButtonClicked(ls_buttontext)
End If
...
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_DropDown function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1162')}
```

Description

Displays the dropdown calculator in the appropriate location.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DropDown** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Integer. Returns 1 if the function succeeds, 0 if the current DataWindow column has not been registered, and -1 if an error occurs.

Usage

The pfc_DropDown event calls this function. If the current DataWindow column is not registered, this function returns 0 and does not display the calculator.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_DropDown function (u_calculator)

This example is from the pfc_DropDown event:

```
Return of_DropDown()
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_GetInfo function (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')} {button Examples,JI(`>Examples',`id_pfcoref_1164')}

Description

Retrieves object information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetInfo function (u_calculator)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.iuo_calculator.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_GetPropertyInfo function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1166')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetPropertyInfo function (u_calculator)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop
```

```
dw_1.iuo_calculator.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetRegisterable function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1168')}
```

Description

Retrieves an array of registerable DataWindow columns. Registerable DataWindow columns are numeric and use the DropDownListBox, Edit, or EditMask edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this value is iuo_calculator)
columns	Unbounded string array into which the function places the names of columns that have been registered with this instance of the dropdown calculator (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetRegisterable function (u_calculator)

This example calls the of_GetRegisterable function:

```
...

li_rc = &
  idw_requestor.iuo_calculator.of_GetRegisterable &
    (ls_allcols)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetRegistered function (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')} {button Examples,JI(`>Examples',`id_pfcoref_1170')}

Description

Retrieves an array of registered DataWindow columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*columns* {, *colstyle* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this value is iuo_calculator)
columns	Unbounded string array into which the function places the names of columns that have been registered with this instance of the dropdown calculator (passed by reference)
colstyle (optional)	Unbounded Integer array into which the function places the styles of columns that have been registered with this instance of the dropdown calculator (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetRegistered function (u_calculator)

This example calls the of_GetRegistered function:

```
String ls_columns[ ], ls_display

Integer li_return, li_count

li_return = &
dw_1.iuo_calculator. of_GetRegistered &
  (ls_columns)
FOR li_count = 1 to li_return
  ls_display += ls_columns[li_count] + "~r~n"
NEXT
MessageBox("Columns", ls_display)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetRegisteredStyle function (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')} {button Examples,JI(`>Examples',`id_pfcoref_1172')}

Description

Retrieves the display style for a specified column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisteredStyle** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this value is iuo_calculator)
column	String containing the DataWindow column for which the function returns the display style

Return value

Integer. Returns the column style if the function succeeds, 0 if the column is not registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_GetRegisteredStyle function (u_calculator)

This example calls the of_GetRegisteredStyle function:

```
Integer li_return


li_return = &
  dw_1.iuo_calculator.of_GetRegisteredStyle &
    ("start_date")
MessageBox("Display Style", &
"Display style is " + String(li_return))
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_IsCloseOnClick function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1174')}
```

Description

Reports whether the u_calculator instance closes when the user clicks the equal sign.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsCloseOnClick** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Boolean. Returns TRUE if the u_calculator instance closes when the user clicks the equal sign and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_IsCloseOnClick function (u_calculator)

This example calls the of_IsCloseOnClick function:

```
Boolean  lb_close

n_cst_conversion  lnv_conversion

lb_close = &
   dw_1.iuo_calculator.of_IsCloseOnClick()
MessageBox("Calculator", "Close on click is " &
   + lnv_conversion.of_String(lb_close))
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_IsDropDown function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1176')}
```

Description

Reports whether the u_calculator instance has enabled n_cst_dropdown.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsDropDown** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Boolean. Returns TRUE if the u_calculator instance has enabled n_cst_dropdown and FALSE if it has not.

Usage

The dropdown service is referenced by the inv_dropdown instance variable.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_IsDropDown function (u_calculator)

This example calls the of_IsDropDown function:

```
Boolean  lb_dropdown

n_cst_conversion  lnv_conversion

lb_dropdown = &
  dw_1.iuo_calculator.of_IsDropDown()
MessageBox("Calculator", &
  "DropDown behavior is " &
    + lnv_conversion.of_String(lb_dropdown))
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_IsInitialValue function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1178')}
```

Description

Reports whether the u_calculator instance initializes blank fields with zero when the calculator displays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsInitialValue** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Boolean. Returns TRUE if the calculator initializes blank fields with a zero and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_IsInitialValue function (u_calculator)

This example calls the of_IsInitialValue function:

```
Boolean  lb_init

n_cst_conversion  lnv_conversion

lb_init = &
  dw_1.iuo_calculator.of_IsInitialValue()
MessageBox("Calculator", "Initialize is " &
  + lnv_conversion.of_String(lb_init))
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_IsNumericType function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1180')}
```

Description

Reports whether a specified DataWindow column data type is numeric (decimal, long, or number).

Access

Protected

Syntax

dwcontrol.*instancename*.**of_IsNumericType** (*datatype*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
datatype	String specifying the data type

Return value

Boolean. Returns TRUE if *datatype* is numeric and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_IsNumericType function (u_calculator)

This example is from the of_DropDown function:

```
...

IF IsValid(idw_requestor) THEN
  ls_colname = idw_requestor.GetColumnName()
  IF NOT of_IsRegistered(ls_colname) THEN
    Return 0
  END IF
  ls_coltype = &
    idw_requestor.Describe(ls_colname+".coltype")
  IF NOT of_IsNumericType(ls_coltype) THEN
    Return -1
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_IsOperator function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1182')}
```

Description

Reports whether a passed value is an arithmetic operator (/, *, +, or -).

Access

Protected

Syntax

dwcontrol.*instancename*.**of_IsOperator** (*operator*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
operator	String containing the value to be tested

Return value

Boolean. Returns TRUE if *operator* is /, *, +, or - and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_IsOperator function (u_calculator)

This example is from the of_ButtonClicked function:

```
...

CASE '/', '*', '+', '-', '='
IF of_IsOperator(as_key) AND &
  of_IsOperator(is_prevkeystroke) THEN
    is_prevkeystroke = as_key
    is_curroperator = as_key
    Return 1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_IsRegistered function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1184')}
```

Description

Reports whether a specified DataWindow column has been registered.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this value is iuo_calculator)
column	String specifying the column to search for

Return value

Boolean. Returns TRUE if *column* has been registered and FALSE if it has not.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_IsRegistered function (u_calculator)

This example calls the of_IsRegistered function:

```
...

IF NOT this.iuo_calculator.of_IsRegistered &
  ("salary") THEN
    this.iuo_calculator.of_Register("salary")
END IF
...
```

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_PerformMath function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1186')}
```

Description

Updates the running total, using the specified operand and operator.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_PerformMath** (*value*, *operator*, *operand*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
value	Double into which the function places the running total (passed by reference)
operator	String specifying the operator
operand	Double containing the number to be used in the calculation

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_PerformMath function (u_calculator)

This example is from the of_ButtonClicked function:

```
...

IF of_PerformMath(ldbl_value, &
  is_curroperator, ldbl_currvalue) < 0 THEN
    Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_RedirectFocus function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1188')}
```

Description

Prevents the u_calculator instance from getting focus while it is hidden.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RedirectFocus** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_RedirectFocus function (u_calculator)

This example is from the dw_employee GetFocus event:

```
Post of_RedirectFocus()
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_Register function (u_calculator)

{button Object,JI(`>main',`bfcbbjfj')}

Registers columns that use the dropdown calculator. There are two syntaxes:

To register	Use
One or all eligible columns, optionally specifying a display style	Syntax 1
All eligible columns using a specified display style	Syntax 2

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

Syntax 1 Register columns with an optional display style

Syntax 1 Register columns with an optional display style

{button Examples,JI(`>Examples',`id_pfcoref_1191')}

Description

Registers one or all eligible columns in a DataWindow. Eligible columns use a numeric data type and have the Edit, EditMask, or DropDownListBox edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** ({ *column* {, *style* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this is iuo_calculator)
column	(Optional) String specifying the column to be registered. This column must have a numeric data type. If you omit this argument, the function registers all numeric columns
style	(Optional) Integer or u_calculator constant specifying the display style of registered DataWindow columns: • **1 or NONE (default)** For columns that use the DropDownListBox edit style, the calculator displays automatically when the column gets focus. For columns that use the Edit and EditMask edit styles, the calculator does not display automatically; instead, you display the calculator by coding a call to the u_dw pfc_DDCalculator event • **2 or DDLB** The function converts registered columns to the DropDownListBox edit style. Users display the calculator by clicking the down arrow, which *disappears* when the calculator displays • **3 or DDLB_WITHARROW** The function converts registered columns to the DropDownListBox edit style. Users display the calculator by clicking the down arrow, which *remains* when the calculator displays

Return value

Integer. Returns the number of columns registered if the function succeeds, 0 if the column was already registered, and -1 if an error occurs. The number of columns registered includes hidden columns.

Usage

Register all appropriate DataWindow columns. You typically call this function in the DataWindow Constructor event.

To register all eligible columns in a DataWindow using a specified display style, see Syntax 2.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

Syntax 1 Register columns with an optional display style

This example from a DataWindow Constructor event calls the of_Register function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalculator(TRUE)
this.iuo_calculator.of_Register ("salary", &
  this.iuo_calculator.NONE)
this.Event pfc_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

Syntax 2 Register columns with a display style

Syntax 2 Register columns with a display style

```
{button Examples,JI(`>Examples',`id_pfcoref_1193')}
```

Description

Registers all eligible columns in a DataWindow using the specified display style. Eligible columns use a numeric data type and have the Edit, EditMask, or DropDownListBox edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*style*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw and u_em default for this is iuo_calculator)
style	Integer or u_calculator constant specifying the display style of registered DataWindow columns: • **1 or NONE** For columns that use the DropDownListBox edit style, the calculator displays automatically when the column gets focus. For columns that use the Edit and EditMask edit styles, the calculator does not display automatically; instead, you display the calculator by coding a call to the u_dw pfc_DDCalculator event • **2 or DDLB** The function converts registered columns to the DropDownListBox edit style. Users display the calculator by clicking the down arrow, which *disappears* when the calculator displays • **3 or DDLB_WITHARROW** The function converts registered columns to the DropDownListBox edit style. Users display the calculator by clicking the down arrow, which *remains* when the calculator displays

Return value

Integer. Returns the number of columns registered if the function succeeds and -1 if an error occurs. The number of columns registered includes hidden columns.

Usage

Register all appropriate DataWindow columns. You typically call this function in the DataWindow Constructor event.

To register one or all eligible columns in a DataWindow, optionally specifying a display style, see Syntax 1.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

Syntax 2 Register columns with a display style

This example from a DataWindow Constructor event calls the of_Register function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalculator(TRUE)
this.iuo_calculator. of_Register &
  (this.iuo_calculator.NONE)
this.Event pfc_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_Reset function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1195')}
```

Description

Resets the u_calculator running total to that displayed in the DataWindow column or EditMask control (or to today's date if the date displayed is not valid).

Access

Public

Syntax

dwcontrol.*instancename*.**of_Reset** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_Reset function (u_calculator)

This example is from the of_DropDown function:

```
...

of_Reset()
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetCloseOnClick function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1197')}
```

Description

Specifies whether to hide the u_calculator instance when the user clicks the equal sign.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetCloseOnClick** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
boolean	Boolean specifying whether to hide the dropdown calculator when the user clicks the equal sign (TRUE) or leave it displayed (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetCloseOnClick function (u_calculator)

This example calls the of_SetCloseOnClick function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalculator(TRUE)
this.iuo_calculator.of_Register()
this.iuo_calculator.of_SetCloseOnClick(FALSE)
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetDropDown function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1199')}
```

Description

Enables or disables the dropdown service (n_cst_dropdown).

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDropDown** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the dropdown service

Return value

Integer. Returns 1 if the function succeeds, -0 if the dropdown service already exists, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetDropDown function (u_calculator)

This example is from the u_calculator Constructor event:

```
...

IF inv_calculatorattrib.ib_dropdown THEN
  this.Visible = FALSE
  of_SetDropDown(TRUE)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetFocusOnRequestor function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1201')}
```

Description

Retrieves focus to the associated DataWindow column or EditMask control.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SetFocusOnRequestor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetFocusOnRequestor function (u_calculator)

This example is from the of_RedirectFocus function:

```
If this.Visible = False Then

        Return of_SetFocusOnRequestor()
End If
Return 1
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetInitialValue function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1203')}
```

Description

Specifies whether the u_calculator instance initializes blank fields with zero when the calculator displays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetInitialValue** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
boolean	Boolean indicating whether the calculator initializes blank fields with zero (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For DataWindows that disable this option, if a user displays the dropdown calculator and moves directly to another column, the original column retains a status of NotModified!.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetInitialValue function (u_calculator)

This example calls the of_SetInitialValue function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalculator(TRUE)
this.iuo_calculator.of_Register()
this.iuo_calculator.of_SetInitialValue(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetRequestor function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1205')}
```

Description

Associates an instance of u_calculator with a DataWindow or EditMask control.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRequestor** (*requestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
requestor	DragObject referencing the DataWindow or EditMask control to associate with this instance of u_calculator

Return value

Integer. Returns values as follows:

1 Success

-1 An error occurred

-2 The u_calculator instance has not enabled the dropdown service

-3 The EditMask mask type is not numeric or decimal

Usage

EditMask controls must have a mask type of numeric or decimal.

If you are not using the u_calculator object as a dropdown object (displaying it permanently on a window, user object, or tab), call this function to associate the u_calculator instance with the EditMask control that displays the results.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_SetRequestor function (u_calculator)

This example is from the u_em of_SetDropDownCalculator function:

```
...

IF ab_switch THEN
  IF NOT IsValid (iuo_calculator) THEN
    lw_parent.OpenUserObject(iuo_calculator)
    iuo_calculator.of_SetRequestor(this)
    Return 1
  END IF
ELSE
  IF IsValid (iuo_calculator) THEN
    lw_parent.CloseUserObject(iuo_calculator)
    Return 1
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetValue function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1207')}
```

Description

Updates the running total with the specified value.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SetValue** (*value*, *sendtorequestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
value	Double containing the new value
sendtorequestor	Boolean indicating whether to copy *value* to the requestor object (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_SetValue function (u_calculator)

This example is from the of_ButtonClicked function:

```
...

CHOOSE CASE as_key
CASE 'c'
// Clear the current variables.
is_curroperator = EMPTY
is_currvalue = EMPTY
// Clear the repeat variables.
is_repeatoperator = EMPTY
idbl_repeatvalue = 0
// Clear the Running value.
of_SetValue(0, True)
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_SetValueOnRequestor function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1209')}
```

Description

Copies the running total to the current DataWindow column or associated EditMask control.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SetValueOnRequestor** (*value*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calculator (the u_dw and u_em default for this value is iuo_calculator)
value	String containing the value to set on the requestor object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_SetValueOnRequestor function (u_calculator)

This example is from the of_Value function:

```
...

IF ab_setrequestor THEN
  of_SetValueOnRequestor(is_value)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_UnRegister function (u_calculator)

```
{button Object,JI(`>main',`bfcbbjfj')} {button
Examples,JI(`>Examples',`id_pfcoref_1211')}
```

Description

Removes one or all columns from the list of registered columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calculator (the u_dw default for this is iuo_calculator)
column (optional)	String specifying the column to be unregistered. If you omit this argument, the function unregisters all columns

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_UnRegister function (u_calculator)

This example calls the of_UnRegister function:

```
...

dw_emp.iuo_calculator.of_UnRegister("salary")
...
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

u_calendar

```
{button Ancestor,JI(`>main',`bfcbbcea')} {button See also,PI(`',`id_pfcoref_1213')}
{button Functions,JI(`>list_win',`id_pfcoref_1231')} {button
Events,JI(`>list_win',`id_pfcoref_1215')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1214')}
```

Description

Calendar object. Users enter dates by clicking on the dropdown calendar, automatically entering the selected date in the associated field. They change months by clicking the >> and << buttons and can also navigate the calendar with keyboard arrow keys.

U_calendar provides support for highlighting:

- Saturdays
- Sundays

- Holidays
- Marked days (any other special days that might apply to your application)

Ancestry

pfc_u_base
u_base

Events

Destructor	pfc_UpdatePrep
pfc_AcceptText	pfc_UpdatesPending
pfc_PostUpdate	pfc_Validation
pfc_Update	Resize

Object functions

Public	of_AcceptText	Public	of_SetLogicalUnitOfWork
Public	of_GetInfo	Public	of_SetResize
Public	of_GetParentWindow	Protected	of_SetUpdateable
Protected	of_GetUpdateObjects	Protected	of_SetUpdateObjects
Protected	of_IsAlwaysValidate	Protected	of_SetUpdateRequestor
Protected	of_IsUpdateable	Public	of_Update
Protected	of_MessageBox	Public	of_UpdatePrep
Public	of_PostUpdate	Public	of_UpdatesPending
Protected	of_SetAlwaysValidate	Public	of_Validation

pfc_u_calendar
u_calendar

Events

ButtonClicked	GetFocus	pfc_NextMonth
Clicked	Key	pfc_NextWeek
Constructor	LoseFocus	pfc_PrevDay
Destructor	pfc_DropDown	pfc_PrevMonth
DoubleClicked	pfc_NextDay	pfc_PrevWeek

Object functions

Protected	of_DrawMonth	Protected	of_RedirectFocus
Protected	of_DropDown	Public	of_Register
Public	of_GetHoliday	Protected	of_Reset
Public	of_GetHolidayColor	Public	of_SetAlwaysRedraw
Public	of_GetInfo	Public	of_SetCloseOnClick
Public	of_GetMarkedDay	Public	of_SetCloseOnDClick
Public	of_GetMarkedDayColor	Protected	of_SetDate
Public	of_GetPropertyInfo	Public	of_SetDateFormat
Public	of_GetRegisterable	Public	of_SetDropDown
Public	of_GetRegistered	Protected	of_SetFocusOnRequestor
Public	of_GetRegisteredStyle	Public	of_SetHoliday
Public	of_GetSaturdayColor	Public	of_SetHolidayBold
Public	of_GetSundayColor	Public	of_SetHolidayColor
Public	of_IsAlwaysRedraw	Public	of_SetInitialValue
Public	of_IsCloseOnClick	Public	of_SetMarkedDay
Public	of_IsCloseOnDClick	Public	of_SetMarkedDayBold
Protected	of_IsDateType	Public	of_SetMarkedDayColor
Public	of_IsHolidayBold	Public	of_SetRequestor
Public	of_IsInitialValue	Public	of_SetSaturdayBold
Public	of_IsMarkedDayBold	Public	of_SetSaturdayColor
Public	of_IsRegistered	Public	of_SetSundayBold
Public	of_IsSaturdayBold	Public	of_SetSundayColor
Public	of_IsSundayBold	Public	of_UnRegister

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dropdown

u_cb

u_dw

Usage

Use this object to provide a dropdown calendar for date values in either of the following:

U_dw-based DataWindow control

U_em-based EditMask control

Standalone calendar, for use with or without an EditMask

To use this service with DataWindow columns:

1 Place a u_dw-based DataWindow control on the window or user object.

2 Enable the dropdown calendar by calling the u_dw of_SetDropDownCalendar function (this example is from a DataWindow Constructor event):

```
this.of_SetDropDownCalendar(TRUE)
```

3 Register columns one by one or all at once by calling the of_Register function. Of_Register includes an argument specifying the dropdown style:

```
this.iuo_calendar.of_Register("hire_date", &

  this.iuo_calendar.DDLB)
```

4 (Optional) Establish the font style and color for weekend days:

```
n_cst_color  lnv_color



this.iuo_calendar.of_SetSaturdayBold(TRUE)
this.iuo_calendar.of_SetSaturdayColor &
  (lnv_color.GREEN)
this.iuo_calendar.of_SetSundayBold(TRUE)
this.iuo_calendar.of_SetSundayColor &
  (lnv_color.GREEN)
```

5 (Optional) Establish a list of holidays with their font style and color (this example shows holidays for one year only):

```
Date ld_holidays[11]



ld_holidays[1] = 1997-01-01
ld_holidays[2] = 1997-02-17
ld_holidays[3] = 1997-04-21
ld_holidays[4] = 1997-05-26
ld_holidays[5] = 1997-07-04
ld_holidays[6] = 1997-09-01
ld_holidays[7] = 1997-10-13
ld_holidays[8] = 1997-11-27
ld_holidays[9] = 1997-11-28
ld_holidays[10] = 1997-12-25
ld_holidays[11] = 1997-12-26
...
this.iuo_calendar.of_SetHoliday(ld_holidays)
this.iuo_calendar.of_SetHolidayBold(TRUE)
this.iuo_calendar.of_SetHolidayColor &
  (lnv_color.GREEN)
```

6 (Optional) Establish a list of marked days with their font style and color:

```
Date ld_marked_days[12]


ld_marked_days[1] = 1996-06-13
ld_marked_days[2] = 1996-03-16
ld_marked_days[3] = 1996-09-23
ld_marked_days[4] = 1996-09-14
ld_marked_days[5] = 1997-06-13
ld_marked_days[6] = 1997-03-16
ld_marked_days[7] = 1997-09-23
ld_marked_days[8] = 1997-09-14
ld_marked_days[9] = 1998-06-13
ld_marked_days[10] = 1998-03-16
ld_marked_days[11] = 1998-09-23
ld_marked_days[12] = 1998-09-14
...
this.iuo_calendar.of_SetMarkedDay(ld_marked_days)
this.iuo_calendar.of_SetMarkedDayBold(TRUE)
this.iuo_calendar.of_SetMarkedDayColor &
  (lnv_color.RED)
```

7 (Optional) Call additional functions as necessary to customize calendar behavior:

```
this.iuo_calendar.of_SetCloseOnClick(FALSE)


this.iuo_calendar.of_SetCloseOnDClick(TRUE)
this.iuo_calendar.of_SetInitialValue(TRUE)
```

For information on using u_calendar with EditMask controls and as a standalone calendar, see the PFC User's Guide.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

u_calendar

u_calculator

u_dw

u_em

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

u_calendar

{button Functions,JI(`>list_win',`id_pfcoref_1231')} {button Events,JI(`>list_win',`id_pfcoref_1215')}

U_calendar includes instance variables.

Instance variable	Description	Data type	Access	Usage
DDLB	Constant set to 2	Integer	Public	Use with of_Register
DDLB_WITHARROW	Constant set to 3	Integer	Public	Use with of_Register
ib_alwaysredraw	Controls redraw	Boolean	Protected	Internal
ib_closeonclick	Controls close on click	Boolean	Protected	Set with of_SetCloseOnClick

ib_closeondclick	Controls close on double-click	Boolean	Protected	Set with of_SetCloseOnDClick
ib_holidaybold	Controls whether holidays are bold	Boolean	Protected	Set with of_SetHolidayBold
ib_initialvalue	Controls whether blank fields are initialized	Boolean	Protected	Set with of_SetInitialValue
ib_markeddaybold	Controls whether marked days are bold	Boolean	Protected	Set with of_SetMarkedDayBold
ib_saturdaybold	Controls whether Saturdays are bold	Boolean	Protected	Set with of_SetSaturdayBold
ib_sundaybold	Controls whether Sundays are bold	Boolean	Protected	Set with of_SetSundayBold
id_date	Current date	Date	Protected	Internal
id_holiday[ ]	List of holidays	Date	Protected	Set with of_SetHoliday
id_markedday[ ]	List of marked days	Date	Protected	Set with of_SetMarkedDay
id_prevdate	Previous date	Date	Protected	Internal
id_resetdate	Date to use if invalid date is entered	Date	Protected	Internal
idrg_requestor	Generic reference	DragObject	Protected	Internal
idw_requestor	Associated DataWindow control	DataWindow	Protected	Internal
iem_requestor	Associated EditMask control	EditMask	Protected	Internal
ii_boldfontweight	Bold font weight	Integer	Protected	Internal (default is 700)
ii_dwcolumnstyle[ ]	Edit styles of registered columns	Integer	Protected	Set with of_Register
ii_normalfontweight	Normal font weight	Integer	Protected	Internal (default is 400)
il_fontcolor	Font color for normal days	Long	Protected	Internal
il_holidaycolor	Font color for holidays	Long	Protected	Set with of_SetHolidayColor
il_markeddaycolor	Font color for marked days	Long	Protected	Set with of_SetMarkedDayColor
il_saturdaycolor	Font color for Saturdays	Long	Protected	Set with of_SetSaturdayColor
il_sundaycolor	Font color for Sundays	Long	Protected	Set with of_SetSundayColor
inv_calendarattrib	Calendar attributes	n_cst_calendarattrib	Public	Internal
inv_datetime	Reference to date/time service	n_cst_datetime	Public	Internal
inv_dropdown	Reference to dropdown service	n_cst_dropdown	Public	Internal
is_dateformat	Date format	String	Protected	Set with of_SetDateFormat
is_dwcolumns[ ]	Registered columns	String	Protected	Set with of_Register
is_dwcolumnsexp[ ]	Original properties for registered columns	String	Protected	Set with of_Register
is_prevcell	Previous cell	String	Protected	Internal
NONE	Constant set to 1	Integer	Public	Use with of_Register

Created with the Personal Edition of HelpNDoc: Free EPub producer

u_calendar

{button Functions,JI(`>list_win',`id_pfcoref_1231')} {button Instance variables,JI(`>list_win',`id_pfcoref_1214')}

- **ButtonClicked event**
- **Clicked event**
- **Constructor event**
- **Destructor event**
- **DoubleClicked event**
- **GetFocus event**
- **Key event**
- **LoseFocus event**
- **pfc_DropDown event**
- **pfc_NextDay event**
- **pfc_NextMonth event**
- **pfc_NextWeek event**
- **pfc_PrevDay event**
- **pfc_PrevMonth event**
- **pfc_PrevWeek event**

U_calendar includes precoded events:

ButtonClicked	pfc_DropDown
Clicked	pfc_NextDay
Constructor	pfc_NextMonth
Destructor	pfc_NextWeek
DoubleClicked	pfc_PrevDay
GetFocus	pfc_PrevMonth
Key	pfc_PrevWeek
LoseFocus	

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

ButtonClicked event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Changes the month.

Controls

Dw_cal

Usage

This event executes when the user clicks the next or previous month buttons.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

Clicked event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Changes the month or day.

Controls

Dw_cal

Usage

This event executes when the user clicks a date.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

Constructor event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Initializes object settings.

Controls

Dw_cal and u_calendar

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

Destructor event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Destroys the inv_dropdown instance variable.

Controls

U_calendar

Usage

This event executes when the u_calendar instance is destroyed.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

DoubleClicked event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Hides the dropdown calendar if close on double-click has been set with the of_SetCloseOnDClick function.

Controls

Dw_cal

Usage

This event executes when the user double-clicks on the dw_cal DataWindow control.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

GetFocus event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Calls the of_RedirectFocus function.

Controls

Dw_cal

Usage

This event executes when a control receives focus, typically by clicking.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

Key event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Provides keyboard support.

Controls

Dw_cal

Usage

This event executes when the user presses one of the following keys:

esc

tab

enter

left, right, up, or down arrow

page up or page down

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

LoseFocus event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Hides the calendar.

Controls

Dw_cal

Usage

This event executes when the calendar loses focus.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

pfc_DropDown event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Calls the of_DropDown function.

Controls

U_calendar

Return value

Integer. Returns 1 if the event succeeds, 0 if the DataWindow column has not been registered, and -1 if an error occurs.

Usage

This event, which calls the of_DropDown function, is called by the u_dw pfc_DDCalendar event.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_NextDay event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Advances the current date by one day.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the right arrow key.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

pfc_NextMonth event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Advances the current date by one month.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the page down key.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_NextWeek event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Advances the current date by one week.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the down arrow key.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

pfc_PrevDay event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Sets the current date back by one day.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the left arrow key.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

pfc_PrevMonth event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Sets the current date back by one month.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the page down key.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_PrevWeek event (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Description

Sets the current date back by one week.

Controls

Dw_cal

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the Key event when the user presses the up arrow key.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

u_calendar

{button Events,JI(`>list_win',`id_pfcoref_1215')} {button Instance variables,JI(`>list_win',`id_pfcoref_1214')}

of_DrawMonth function

of_DropDown function

of_GetHoliday function

of_GetHolidayColor function

of_GetInfo function

of_GetMarkedDay function

of_GetMarkedDayColor function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetRegistered function

of_GetRegisteredStyle function

of_GetSaturdayColor function

of_GetSundayColor function

of_IsAlwaysRedraw function

of_IsCloseOnClick function

of_IsCloseOnDClick function

of_IsDateType function

of_IsHolidayBold function

of_IsInitialValue function

of_IsMarkedDayBold function

of_IsRegistered function

of_IsSaturdayBold function

of_IsSundayBold function

of_RedirectFocus function

of_Register function

of_Reset function

of_SetAlwaysRedraw function

of_SetCloseOnClick function

of_SetCloseOnDClick function

of_SetDate function

of_SetDateFormat function

of_SetDropDown function

of_SetFocusOnRequestor function

of_SetHoliday function

of_SetHolidayBold function

of_SetHolidayColor function

of_SetInitialValue function

of_SetMarkedDay function

of_SetMarkedDayBold function

of_SetMarkedDayColor function

of_SetRequestor function

of_SetSaturdayBold function

of_SetSaturdayColor function

of_SetSundayBold function

of_SetSundayColor function

of_UnRegister function

U_calendar contains precoded object functions:

of_DrawMonth
of_DropDown
of_GetHoliday
of_GetHolidayColor
of_GetInfo
of_GetMarkedDay
of_GetMarkedDayColor
of_GetPropertyInfo
of_GetRegisterable
of_GetRegistered
of_GetRegisteredStyle
of_GetSaturdayColor
of_GetSundayColor
of_IsAlwaysRedraw
of_IsCloseOnClick
of_IsCloseOnDClick
of_IsDateType
of_IsHolidayBold
of_IsInitialValue
of_IsMarkedDayBold
of_IsRegistered
of_RedirectFocus
of_Register
of_Reset
of_SetAlwaysRedraw
of_SetCloseOnClick
of_SetCloseOnDClick
of_SetDate
of_SetDateFormat
of_SetDropDown
of_SetFocusOnRequestor
of_SetHoliday
of_SetHolidayBold
of_SetHolidayColor
of_SetInitialValue
of_SetMarkedDay
of_SetMarkedDayBold
of_SetMarkedDayColor
of_SetRequestor
of_SetSaturdayBold
of_SetSaturdayColor
of_SetSundayBold

of_IsSaturdayBold
of_IsSundayBold
of_SetSundayColor
of_UnRegister

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_DrawMonth function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')} {button Examples,JI(`>Examples',`id_pfcoref_1233')}

Description

Draws the specified month.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_DrawMonth** (*date*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
date	Date specifying the month to draw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_DrawMonth function (u_calendar)

This example calls the of_DrawMonth function:

```
...

IF Year(ad_date) <> Year(id_prevdate) OR &
  Month(ad_date) <> Month(id_prevdate) THEN
    of_DrawMonth(ad_date)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_DropDown function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1235')}
```

Description

Displays the dropdown calendar in the appropriate location.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DropDown** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Integer. Returns 1 if the function succeeds, 0 if the current DataWindow column has not been registered, and -1 if an error occurs.

Usage

The u_dw and u_em pfc_DDCalendar event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_DropDown function (u_calendar)

This example is from the u_em pfc_DDCalendar event:

```
IF IsValid(iuo_calendar) THEN

  Return iuo_calendar.of_DropDown()
END IF
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_GetHoliday function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1237')}
```

Description

Retrieves an array containing all specified holidays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetHoliday** (*holidays*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
holidays	Unbounded Date array into which the function places all specified holidays (passed by reference)

Return value

Integer. Returns the number of entries in the *holidays* array.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetHoliday function (u_calendar)

This example calls the of_GetHoliday function:

```
String ls_display

Date ldt_holidays[ ]
Integer li_return, li_count

li_return = &
  dw_caltest.iuo_calendar.of_GetHoliday &
    (ldt_holidays)
FOR li_count = 1 to li_return
  ls_display += String(ldt_holidays[li_count])
  ls_display += "~r~n"
NEXT
MessageBox("Holidays", ls_display)
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_GetHolidayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1239')}
```

Description

Retrieves the display color for holidays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetHolidayColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Long. Returns the color for holidays.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetHolidayColor function (u_calendar)

This example calls the of_GetHolidayColor function:

```
MessageBox("Holidays", "Holiday color is " + String &

  (dw_caltest.iuo_calendar.of_GetHolidayColor()))
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetInfo function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1241')}
```

Description

Retrieves object information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetInfo function (u_calendar)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.iuo_calendar.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free

WinHelp HLP to CHM conversion tool

of_GetMarkedDay function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1243')}
```

Description

Retrieves an array containing all marked days.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetMarkedDay** (*markeddays*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
markeddays	Unbounded Date array into which the function places all specified marked days (passed by reference)

Return value

Integer. Returns the number of entries in the *markeddays* array.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetMarkedDay function (u_calendar)

This example calls the of_GetMarkedDay function:

```
String ls_display

Date ldt_marked_days[ ]
Integer li_return, li_count

li_return = &
  dw_caltest.iuo_calendar.of_GetMarkedDay &
    (ldt_marked_days)
FOR li_count = 1 to li_return
  ls_display += String(ldt_marked_days[li_count])
  ls_display += "~r~n"
NEXT
MessageBox("Marked Days", ls_display)
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetMarkedDayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1245')}
```

Description

Retrieves the display color for marked days.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetMarkedDayColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Long. Returns the color for marked days.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_GetMarkedDayColor function (u_calendar)

This example calls the of_GetMarkedDayColor function:

```
MessageBox("Marked Days", &

  "Marked day color is " + String &
    (dw_1.iuo_calendar.of_GetMarkedDayColor()))
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetPropertyInfo function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1247')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_GetPropertyInfo function (u_calendar)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.iuo_calendar.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_GetRegisterable function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1249')}
```

Description

Retrieves an array of registerable DataWindow columns. Registerable DataWindow columns have the date data type and use the DropDownListBox, Edit, or EditMask edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this value is iuo_calendar)
columns	Unbounded string array into which the function places the names of columns that have been registered with this instance of the dropdown calendar (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array if the function succeeds and -1 if an error occurs.

Usage

Call this function to determine which DataWindow columns could be registered with this instance of u_calendar.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_GetRegisterable function (u_calendar)

This example calls the of_GetRegisterable function:

```
...

li_rc = &
  idw_requestor.iuo_calendar. of_GetRegisterable &
    (ls_allcols)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetRegistered function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1251')}
```

Description

Retrieves an array of registered DataWindow columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this value is iuo_calendar)
columns	Unbounded string array into which the function places the names of columns that have been registered with this instance of the dropdown calendar (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_GetRegistered function (u_calendar)

This example calls the of_GetRegistered function:

```
String ls_columns[], ls_display

Integer li_return, li_count

li_return = &
   dw_1.iuo_calendar.of_GetRegistered(ls_columns)
FOR li_count = 1 to li_return
   ls_display += ls_columns[li_count] + "~r~n"
NEXT
MessageBox("Columns", ls_display)
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetRegisteredStyle function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1253')}
```

Description

Retrieves the display style for a registered column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisteredStyle** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this value is iuo_calendar)
column	String containing the DataWindow column for which the function returns the display style

Return value

Integer. Returns 1 if the function succeeds, 0 if the column is not registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_GetRegisteredStyle function (u_calendar)

This example calls the of_GetRegisteredStyle function:

```
Integer li_return


li_return = &
  dw_1.iuo_calendar.of_GetRegisteredStyle &
    ("start_date")
MessageBox("Display Style", &
  "Display style is " + String(li_return))
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_GetSaturdayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1255')}
```

Description

Retrieves the display color for Saturdays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetSaturdayColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Long. Returns the color for Saturdays.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetSaturdayColor function (u_calendar)

This example calls the of_GetSaturdayColor function:

```
MessageBox("Saturdays", "Saturday color is " + &

  String &
    (dw_caltest.iuo_calendar.of_GetSaturdayColor()))
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetSundayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1257')}
```

Description

Retrieves the display color for Sundays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetSundayColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Long. Returns the color for Sundays.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_GetSundayColor function (u_calendar)

This example calls the of_GetSundayColor function:

```
MessageBox("Sundays", "Sunday color is " + &

  String &
    (dw_caltest.iuo_calendar.of_GetSundayColor()))
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsAlwaysRedraw function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1259')}
```

Description

Reports whether the u_calendar instance forces calendar redraw when display properties change.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsAlwaysRedraw** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if the u_calendar instance forces redraw and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_IsAlwaysRedraw function (u_calendar)

This example calls the of_IsAlwaysRedraw function:

```
Boolean lb_redraw

n_cst_conversion lnv_conversion

lb_redraw = &
  dw_1.iuo_calendar.of_IsAlwaysRedraw()
MessageBox("Calendar", "Redraw is " &
  + lnv_conversion.of_String(lb_redraw))
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_IsCloseOnClick function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1261')}
```

Description

Reports whether the u_calendar instance closes when the user clicks a date.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsCloseOnClick** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if the u_calendar instance closes when the user clicks a date and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_IsCloseOnClick function (u_calendar)

This example calls the of_IsCloseOnClick function:

```
Boolean lb_close

n_cst_conversion lnv_conversion

lb_close = &
  dw_1.iuo_calendar.of_IsCloseOnClick()
MessageBox("Calendar", "Close on click is " &
  + lnv_conversion.of_String(lb_close))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_IsCloseOnDClick function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1263')}
```

Description

Reports whether the u_calendar instance closes when the user double-clicks a date.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsCloseOnDClick** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if the u_calendar instance closes when the user double-clicks a date and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_IsCloseOnDClick function (u_calendar)

This example calls the of_IsCloseOnDClick function:

```
Boolean lb_close

n_cst_conversion lnv_conversion

lb_close = &
  dw_1.iuo_calendar.of_IsCloseOnDClick()
MessageBox("Calendar", &
  "Close on double-click is " &
    + lnv_conversion.of_String(lb_close))
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_IsDateType function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1265')}
```

Description

Reports whether a specified DataWindow column uses the date data type.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_IsDateType** (*datatype*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
datatype	String specifying the data type

Return value

Boolean. Returns TRUE if *datatype* is date and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_IsDateType function (u_calendar)

This example is from the of_DropDown function:

```
...

IF NOT of_IsDateType(idw_requestor.Describe &
  (ls_colname+".coltype")) THEN
    Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_IsHolidayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1267')}
```

Description

Reports whether holidays are bold.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsHolidayBold** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if holidays are bold and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_IsHolidayBold function (u_calendar)

This example calls the of_IsHolidayBold function:

```
IF dw_caltest.iuo_calendar.of_IsHolidayBold() THEN

  MessageBox("Holidays", "Holidays are bold")
ELSE
  MessageBox("Holidays", "Holidays are not bold")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_IsInitialValue function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1269')}
```

Description

Reports whether the u_calendar instance initializes blank fields with the current date when the calendar displays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsInitialValue** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if the calendar initializes blank fields with the current date and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_IsInitialValue function (u_calendar)

This example calls the of_IsInitialValue function:

```
Boolean lb_today

n_cst_conversion lnv_conversion

lb_today = &
  dw_caltest.iuo_calendar.of_IsInitialValue()
MessageBox("Calendar", &
  "Use today's date value is " &
    + lnv_conversion.of_String(lb_today))
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_IsMarkedDayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1271')}
```

Description

Reports whether marked days are bold.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsMarkedDayBold** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if marked days are bold and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_IsMarkedDayBold function (u_calendar)

This example calls the of_IsMarkedDayBold function:

```
IF dw_1.iuo_calendar.of_IsMarkedDayBold() THEN

  MessageBox("Marked Days", "Marked days are bold")
ELSE
  MessageBox("Marked Days",  &
    "Marked days are not bold")
END IF
```

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_IsRegistered function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1273')}
```

Description

Reports whether a specified DataWindow column has been registered with this instance of u_calendar.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this value is iuo_calendar)
column	String specifying the column to search for

Return value

Boolean. Returns TRUE if *column* has been registered and FALSE if it has not.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_IsRegistered function (u_calendar)

This example calls the of_IsRegistered function:

```
...

IF NOT this.iuo_calendar.of_IsRegistered &
  ("birth_date") THEN
    this.iuo_calendar.of_Register("birth_date")
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_IsSaturdayBold function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')} {button Examples,JI(`>Examples',`id_pfcoref_1275')}

Description

Reports whether Saturdays are bold.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsSaturdayBold** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if Saturdays are bold and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_IsSaturdayBold function (u_calendar)

This example calls the of_IsSaturdayBold function:

```
IF dw_caltest.iuo_calendar. of_IsSaturdayBold () THEN

  MessageBox("Saturdays", "Saturdays are bold")
ELSE
  MessageBox("Saturdays", "Saturdays are not bold")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_IsSundayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1277')}
```

Description

Reports whether Sundays are bold.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsSundayBold** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Boolean. Returns TRUE if Sundays are bold and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_IsSundayBold function (u_calendar)

This example calls the of_IsSundayBold function:

```
IF dw_caltest.iuo_calendar. of_IsSundayBold () THEN

  MessageBox("Sundays", "Sundays are bold")
ELSE
  MessageBox("Sundays", "Sundays are not bold")
END IF
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_RedirectFocus function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1279')}
```

Description

Prevents the u_calendar instance from getting focus while it is hidden.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RedirectFocus** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)

instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_RedirectFocus function (u_calendar)

This example is from the dw_cal GetFocus event:

```
Post of_RedirectFocus()
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_Register function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')}

Registers columns that use the dropdown calendar. There are two syntaxes:

To register	Use
One or all eligible columns, optionally specifying a display style	Syntax 1
All eligible columns using a specified display style	Syntax 2

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

Syntax 1 Register columns with an optional display style

Syntax 1 Register columns with an optional display style

{button Examples,JI(`>Examples',`id_pfcoref_1282')}

Description

Registers one or all eligible columns in a DataWindow. Eligible columns use the date data type and have the Edit, EditMask, or DropDownListBox edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** ({ *column* {, *style* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this value is iuo_calendar)
column	(Optional) String specifying the column to be registered. This column must have a date data type. If you omit this argument, the function registers all

columns that use the date data type

style (Optional) Integer or u_calendar constant specifying the display style of registered DataWindow columns:

- **1 or NONE (default)** For columns that use the DropDownListBox edit style, the calendar displays automatically when the column gets focus. For columns that use the Edit and EditMask edit styles, the calendar does not display automatically; instead, you display the calendar by coding a call to the u_dw pfc_DDCalendar event
- **2 or DDLB** The function converts registered columns to the DropDownListBox edit style. Users display the calendar by clicking the down arrow, which *disappears* when the calendar displays
- **3 or DDLB_WITHARROW** The function converts registered columns to the DropDownListBox edit style. Users display the calendar by clicking the down arrow, which *remains* when the calendar displays

Return value

Integer. Returns the number of columns registered if the function succeeds, 0 if the column was already registered, and -1 if an error occurs. The number of columns registered includes hidden columns.

Usage

Call this function to register one or all date columns in a DataWindow.

To register all eligible columns in a DataWindow using a specified display style, use Syntax 2.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

Syntax 1 Register columns with an optional display style

This example calls the of_Register function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalendar(TRUE)
this.iuo_calendar.of_Register("start_date", &
  this.iuo_calendar.DDLB)
this.iuo_calendar.of_Register("termination_date", &
  this.iuo_calendar.NONE)
this.iuo_calendar.of_Register("birth_date", &
  this.iuo_calendar.DDLB)
this.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

Syntax 2 Register columns with a display style

Syntax 2 Register columns with a display style

```
{button Examples,JI(`>Examples',`id_pfcoref_1284')}
```

Description

Registers all eligible columns in a DataWindow using the specified display style. Eligible columns use the date data type and have the Edit, EditMask, or DropDownListBox edit style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*style*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar. The u_dw and u_em default for this is iuo_calendar
style	Integer or u_calendar constant specifying the display style of registered DataWindow columns: • **1 or NONE** For columns that use the DropDownListBox edit style, the calendar displays automatically when the column gets focus. For columns that use the Edit and EditMask edit styles, the calendar does not display automatically; instead, you display the calendar by coding a call to the u_dw pfc_DDCalendar event • **2 or DDLB** The function converts registered columns to the DropDownListBox edit style. Users display the calendar by clicking the down arrow, which *disappears* when the calendar displays • **3 or DDLB_WITHARROW** The function converts registered columns to the DropDownListBox edit style. Users display the calendar by clicking the down arrow, which *remains* when the calendar displays

Return value

Integer. Returns the number of columns registered if the function succeeds and -1 if an error occurs. The number of columns registered includes hidden columns.

Usage

Call this function to register all Date columns in a DataWindow, using a specified display style.

To register one or all eligible columns in a DataWindow, optionally specifying a display style, use Syntax 1.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

Syntax 2 Register columns with a display style

This example calls the of_Register function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalendar(TRUE)
this.iuo_calendar.of_Register &
  (this.iuo_calendar.NONE)
this.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_Reset function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1286')}
```

Description

Resets the u_calendar date to that displayed in the DataWindow column or EditMask control.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_Reset** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_Reset function (u_calendar)

This example is from the of_DropDown function:

```
...

li_rc = inv_dropdown.of_Position &
  (idrg_requestor, FALSE)
IF li_rc < 0 THEN Return -1
  of_Reset ()
  This.Visible = TRUE
  Return 1
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_SetAlwaysRedraw function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1288')}
```

Description

Specifies whether the u_calendar instance forces calendar redraw when display properties change.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetAlwaysRedraw** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether the u_calendar instance forces a redraw when display properties change (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You should enable automatic redraw if your application programmatically changes a calendar's holidays, special days, or other display properties.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetAlwaysRedraw function (u_calendar)

This example calls the of_SetAlwaysRedraw function:

```
dw_1.iuo_calendar.of_SetAlwaysRedraw(TRUE)
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetCloseOnClick function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')} {button Examples,JI(`>Examples',`id_pfcoref_1290')}

Description

Specifies whether to hide the u_calendar instance when the user clicks a date.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetCloseOnClick** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean specifying whether to hide the dropdown calendar when the user clicks a date (TRUE) or leave it displayed (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetCloseOnClick function (u_calendar)

This example calls the of_SetCloseOnClick function:

```
this.of_SetTransObject(SQLCA)

this.of_SetDropDownCalendar(TRUE)
this.iuo_calendar.of_Register("start_date", &
```

```
    this.iuo_calendar.DDLB)
  this.iuo_calendar.of_Register("termination_date")
  this.iuo_calendar.of_Register("birth_date", &
    this.iuo_calendar.DDLB)
  this.iuo_calendar.of_SetCloseOnClick(FALSE)
  this.iuo_calendar.of_SetInitialValue(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetCloseOnDClick function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')} {button Examples,JI(`>Examples',`id_pfcoref_1292')}

Description

Specifies whether to hide the u_calendar instance when the user double-clicks a date.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetCloseOnDClick** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean specifying whether to hide the dropdown calendar when the user double-clicks a date (TRUE) or leave it displayed (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_SetCloseOnDClick function (u_calendar)

This example calls the of_SetCloseOnDClick function:

```
  this.of_SetTransObject(SQLCA)

  this.of_SetDropDownCalendar(TRUE)
  this.iuo_calendar.of_Register("start_date")
  this.iuo_calendar.of_Register("termination_date")
  this.iuo_calendar.of_Register("birth_date")
  this.iuo_calendar.of_SetCloseOnDClick(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_SetDate function (u_calendar)

{button Object,JI(`>main',`bfcdaifi')} {button Examples,JI(`>Examples',`id_pfcoref_1294')}

Description

Sets the current date, optionally updating the date in the associated DataWindow column or EditMask control.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SetDate** (*date*, *sendtorequestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
date	Date variable containing the new date
sendtorequestor	Boolean indicating whether to copy *date* to the requestor object (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetDate function (u_calendar)

This example is from the of_Reset function:

```
...

id_resetdate = date(ls_date)
IF of_IsValid(id_resetdate) THEN
  of_SetDate(id_resetdate, FALSE)
ELSE
  of_SetDate(Today(), ib_InitialValue)
END IF
Return 1
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetDateFormat function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1296')}
```

Description

Sets the format for dates converted to strings.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDateFormat** (*format*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
format	String specifying the format for dates converted to strings. Sample date formats include mm/dd/yy; m-d-yy; and mmm dd, yyyy

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When using a calendar with an EditMask control, this format must match the date mask.

When you use this function for a DataWindow column, it overrides the DataWindow edit mask, if one was specified. Also, when applied to a DataWindow column, the format argument must be compatible with the client system default date format.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetDateFormat function (u_calendar)

This example calls the of_SetDateFormat function:

```
...

this.iuo_calendar.of_SetInitialValue(TRUE)
this.iuo_calendar.of_SetDateFormat("dd/mm/yy")
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetDropDown function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1298')}
```

Description

Enables or disables the dropdown service (n_cst_dropdown).

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDropDown** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean specifying whether to enable (TRUE) or disable (TRUE) the dropdown service

Return value

Integer. Returns 1 if the function succeeds, 0 if the dropdown service already exists, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetDropDown function (u_calendar)

This example is from the u_calendar Constructor event:

```
...

this.Visible = FALSE
of_SetDropDown(TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetFocusOnRequestor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1300')}
```

Description

Returns focus to the associated DataWindow column or EditMask control.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SetFocusOnRequestor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_SetFocusOnRequestor function (u_calendar)

This example is from the dw_cal DoubleClicked event:

```
...

IF IsValid(inv_dropdown) THEN
  IF ib_closeondclick THEN
    of_SetFocusOnRequestor()
  END IF
```

```
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetHoliday function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1302')}
```

Description

Specifies the holidays displayed on the calendar.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetHoliday** (*holidays*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
holidays	Date array containing holidays

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_SetHoliday function (u_calendar)

This example calls the of_SetHoliday function:

```
Date ld_holidays[11]


ld_holidays[1] = 1997-01-01
ld_holidays[2] = 1997-02-17
ld_holidays[3] = 1997-04-21
ld_holidays[4] = 1997-05-26
ld_holidays[5] = 1997-07-04
ld_holidays[6] = 1997-09-01
ld_holidays[7] = 1997-10-13
ld_holidays[8] = 1997-11-27
ld_holidays[9] = 1997-11-28
ld_holidays[10] = 1997-12-25
ld_holidays[11] = 1997-12-26
this.iuo_calendar.of_SetHoliday(ld_holidays)
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SetHolidayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1304')}
```

Description

Sets the Bold property for holidays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetHolidayBold** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether holidays are bold (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetHolidayBold function (u_calendar)

This example calls the of_SetHolidayBold function:

```
...

this.iuo_calendar.of_SetHoliday(ld_holidays)
this.iuo_calendar.of_SetHolidayBold (TRUE)
this.iuo_calendar.of_SetHolidayColor(RGB(0,255,0))
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetHolidayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1306')}
```

Description

Sets the display color for holidays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetHolidayColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)

instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
color	Long specifying the color for holidays

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_SetHolidayColor function (u_calendar)

This example calls the of_SetHolidayColor function:

```
...

this.iuo_calendar.of_SetHoliday(ld_holidays)
this.iuo_calendar.of_SetHolidayBold(TRUE)
this.iuo_calendar.of_SetHolidayColor(RGB(0,255,0))
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_SetInitialValue function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1308')}
```

Description

Specifies whether the u_calendar instance initializes blank fields with the current date when the calendar displays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetInitialValue** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether the calendar initializes the blank fields with the current date when the calendar displays (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_SetInitialValue function (u_calendar)

This example calls the of_SetInitialValue function:

```
...

this.iuo_calendar.of_SetInitialValue(TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetMarkedDay function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1310')}
```

Description

Specifies a set of marked days. Marked days are not holidays but still require special display on the calendar.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetMarkedDay** (*markeddays*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
markeddays	Date array containing marked days

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_SetMarkedDay function (u_calendar)

This example calls the of_SetMarkedDay function:

```
Date ld_marked_days[12]


ld_marked_days[1] = 1996-06-13
ld_marked_days[2] = 1996-03-16
ld_marked_days[3] = 1996-09-23
ld_marked_days[4] = 1996-09-14
ld_marked_days[5] = 1997-06-13
ld_marked_days[6] = 1997-03-16
ld_marked_days[7] = 1997-09-23
ld_marked_days[8] = 1997-09-14
ld_marked_days[9] = 1998-06-13
ld_marked_days[10] = 1998-03-16
ld_marked_days[11] = 1998-09-23
```

```
ld_marked_days[12] = 1998-09-14

this.iuo_calendar.of_SetMarkedDay(ld_marked_days)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetMarkedDayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1312')}
```

Description

Sets the Bold property for marked days.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetMarkedDayBold** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether marked days are bold (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetMarkedDayBold function (u_calendar)

This example calls the of_SetMarkedDayBold function:

```
...

this.iuo_calendar.of_SetMarkedDayBold(TRUE)
this.iuo_calendar.of_SetMarkedDayColor &
   (RGB(255, 0, 0))
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_SetMarkedDayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1314')}
```

Description

Sets the display color for marked days.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetMarkedDayColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
color	Long specifying the color for marked days

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetMarkedDayColor function (u_calendar)

This example calls the of_SetMarkedDayColor function:

```
...

this.iuo_calendar.of_SetMarkedDayBold(TRUE)
this.iuo_calendar.of_SetMarkedDayColor &
  (RGB(255, 0, 0))
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetRequestor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1316')}
```

Description

Associates an instance of u_calendar with a DataWindow or EditMask control.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRequestor** (*requestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calculator with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
requestor	DragObject referencing the DataWindow or EditMask control to associate with this instance of u_calendar

Return value

Integer. Returns values as follows:

- 1 Success

- -1 An error occurred
- -2 The u_calendar instance has not enabled n_cst_dropdown
- -3 The EditMask mask type is not date

Usage

EditMask controls must have a mask type of date.

If you are not using the u_calendar object as a dropdown object (that is, displaying it permanently on a window, user object, or tab), call this function to associate the u_calendar instance with the EditMask control that displays the results.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_SetRequestor function (u_calendar)

This example is from the u_em of_SetDropDownCalendar function:

```
...

IF ab_switch THEN
  IF NOT IsValid (iuo_calendar) THEN
    lw_parent.OpenUserObject(iuo_calendar)
    iuo_calendar.of_SetRequestor(this)
    Return 1
  END IF
ELSE
  IF IsValid (iuo_calendar) THEN
    lw_parent.CloseUserObject(iuo_calendar)
    Return 1
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetSaturdayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1318')}
```

Description

Sets the Bold property for Saturdays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSaturdayBold** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether Saturdays are bold (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetSaturdayBold function (u_calendar)

This example calls the of_SetSaturdayBold function:

```
this.iuo_calendar.of_SetSaturdayBold TRUE)

this.iuo_calendar.of_SetSaturdayColor &
   (RGB(0, 255, 0))
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetSaturdayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1320')}
```

Description

Sets the display color for Saturdays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSaturdayColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
color	Long specifying the color for Saturdays

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetSaturdayColor function (u_calendar)

This example calls the of_SetSaturdayColor function:

```
this.iuo_calendar.of_SetSaturdayBold(TRUE)

this.iuo_calendar.of_SetSaturdayColor &
   (RGB(0, 255, 0))
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion

process behind with HelpNDoc

of_SetSundayBold function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1322')}
```

Description

Sets the Bold property for Sundays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSundayBold** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
boolean	Boolean indicating whether Sundays are bold (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_SetSundayBold function (u_calendar)

This example calls the of_SetSundayBold function:

```
this.iuo_calendar.of_SetSundayBold(TRUE)

this.iuo_calendar.of_SetSundayColor(RGB(0, 255, 0))
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_SetSundayColor function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1324')}
```

Description

Sets the display color for Sundays.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSundayColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control (not required when

	using u_calendar with an EditMask control)
instancename	Instance name of u_calendar (the u_dw and u_em default for this value is iuo_calendar)
color	Long specifying the color for Sundays

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetSundayColor function (u_calendar)

This example calls the of_SetSundayColor function:

```
this.iuo_calendar.of_SetSundayBold(TRUE)

this.iuo_calendar.of_SetSundayColor(RGB(0, 255, 0))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_UnRegister function (u_calendar)

```
{button Object,JI(`>main',`bfcdaifi')} {button
Examples,JI(`>Examples',`id_pfcoref_1326')}
```

Description

Removes one or all columns from the list of registered columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of u_calendar (the u_dw default for this is iuo_calendar)
column	(Optional) String specifying the column to be unregistered. If you omit this argument, the function unregisters all columns

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_UnRegister function (u_calendar)

This example calls the of_UnRegister function:

```
...

dw_emp.iuo_calendar.of_UnRegister("start_date")
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

u_progressbar

```
{button Ancestor,JI(`>main',`bfcbbcea')} {button See also,PI(`',`id_pfcoref_1328')}
{button Functions,JI(`>list_win',`id_pfcoref_1333')} {button
Events,JI(`>list_win',`id_pfcoref_1330')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1329')}
```

Description

Progress bar control. Use u_progressbar to provide users with a visual representation of percentage complete for long-running operations. U_progressbar can be vertical or horizontal and can display either percent complete or programmatically specified text.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

Use this control to display a progress bar for long-running operations.

To use u_progressbar:

1. Place an instance of the u_progressbar object on a window or user object.
2. Size the object to create an appropriately sized vertical or horizontal progress bar.
3. Define defaults for the progress bar instance. This example defines defaults in the Constructor event:

```
of_SetFillStyle(LEFTRIGHT)
```

```
of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontSize(10)
of_SetAutoReset(FALSE)
```

4 In the process to be tracked, set the initial progress bar position, set the maximum, and call the of_Increment function at regular intervals to update the progress bar:

```
Integer li_count


uo_progress.of_SetMaximum(100)
uo_progress.of_SetPosition(0)
FOR li_count = 1 TO &
  uo_progress.of_GetMaximum() STEP 1
    uo_progress.of_Increment(1)
// Additional code here to perform your process
NEXT
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

u_progressbar

n_cst_winsrv_statusbar

u_hpb

u_vpb

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

u_progressbar

{button Functions,JI(`>list_win',`id_pfcoref_1333')} {button Events,JI(`>list_win',`id_pfcoref_1330')}

U_progressbar includes instance variables:

Instance variable	Description	Data type	Access	Usage
BAR	Constant set to 0	Integer	Public	Use with of_SetDisplayStyle
BOTTOMTOP	Constant set to 3	Integer	Public	Use with of_SetFillStyle
ib_autoreset	Controls autoreset	Boolean	Protected	Set with of_SetAutoReset. Default is TRUE
ii_displaystyle	Controls test displayed on progress bar	Integer	Protected	Set with of_DisplayStyle. Default is BAR
ii_fillstyle	Controls the direction in which the progress bar fills	Integer	Protected	Set with of_SetFillStyle. Default is LEFTRIGHT
ii_maximum	Value at which the incrementation process ends	Integer	Protected	Set with of_SetMaximum. Default is 100
ii_minimum	Value at which the incrementation process starts	Integer	Protected	Set with of_SetMinimum. Default is 0
ii_msgtextcount	Number of items in os_msgtext[] array	Integer	Protected	Internal

ii_percentcomplete	Current percent complete	Integer	Protected	Access with of_GetPctComplete
ii_position	Current increment position	Integer	Protected	Set with of_SetPosition. Updated internally
ii_step	Default increment value	Integer	Protected	Set with of_SetStep. Default is 10
il_backcolor	Background color	Long	Protected	Set with of_SetBackColor. Default is 78682240
il_fillcolor	Fill color	Long	Protected	Set with of_SetFillColor. Default is 16668075
il_textcolor	Text color	Long	Protected	Set with of_SetTextColor. Default is 0
is_msgtext[ ]	Array of text to display on progress bar	String	Protected	Set with of_SetMessageText
LEFTRIGHT	Constant set to 0	Integer	Public	Use with of_SetFillStyle
MSGTEXT	Constant set to 3	Integer	Public	Use with of_SetDisplayStyle
PCTCOMPLETE	Constant set to 1	Integer	Public	Use with of_SetDisplayStyle
POSITION	Constant set to 2	Integer	Public	Use with of_SetDisplayStyle
RIGHTLEFT	Constant set to 1	Integer	Public	Use with of_SetFillStyle
TOPDOWN	Constant set to 2	Integer	Public	Use with of_SetFillStyle

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

u_progressbar

{button Functions,JI(`>list_win',`id_pfcoref_1333')} {button Instance variables,JI(`>list_win',`id_pfcoref_1329')}

Constructor event

RButtonDown event

U_progressbar includes precoded events:

Constructor

RButtonDown

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

Constructor event (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')}

Description

Initializes progress bar settings.

Controls

U_progressbar

Usage

This event executes when the progress bar object is created.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

RButtonDown event (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')}

Description

Calls the parent's RButtonDown event.

Controls

Dw_progress

Usage

This event executes when the user right-clicks over the progress bar.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

u_progressbar

{button Events,JI(`>list_win',`id_pfcoref_1330')} {button Instance variables,JI(`>list_win',`id_pfcoref_1329')}

of_GetBackColor function

of_GetCurrentText function

of_GetDisplayStyle function

of_GetFillColor function

of_GetFillStyle function

of_GetInfo function

of_GetMaximum function

of_GetMessageText function

of_GetMinimum function

of_GetPctComplete function

of_GetPosition function

of_GetStep function

of_GetTextColor function

of_Increment function

of_IsAutoReset function

of_Reset function

of_SetAutoReset function

of_SetBackColor function

of_SetDisplayStyle function

of_SetFillColor function

of_SetFillStyle function

of_SetFont function

of_SetFontBold function

of_SetFontCharSet function

of_SetFontFace function

of_SetFontFamily function

of_SetFontItalic function

of_SetFontPitch function

of_SetFontSize function

of_SetFontUnderline function

of_SetMaximum function

of_SetMessageText function

of_SetMinimum function

of_SetPosition function

of_SetStep function

of_SetTextColor function

of_UpdateVisuals function

U_progressbar contains precoded object functions:

of_GetBackColor
of_GetCurrentText
of_GetDisplayStyle
of_GetFillColor
of_GetFillStyle
of_GetInfo
of_GetMaximum
of_GetMessageText
of_GetMinimum
of_GetPctComplete
of_GetPosition
of_GetStep
of_GetTextColor
of_Increment
of_IsAutoReset
of_Reset
of_SetAutoReset
of_SetBackColor
of_SetDisplayStyle
of_SetFillColor
of_SetFillStyle
of_SetFont
of_SetFontBold
of_SetFontCharSet
of_SetFontFace
of_SetFontFamily
of_SetFontItalic
of_SetFontPitch
of_SetFontSize
of_SetFontUnderline
of_SetMaximum
of_SetMessageText
of_SetMinimum
of_SetPosition
of_SetStep
of_SetTextColor
of_UpdateVisuals

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetBackColor function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1335')}

Description

Retrieves the progress bar background color.

Access

Public

Syntax

instancename.**of_GetBackColor** ( )

Argument	Description

instancename	Instance name of u_progressbar

Return value

Long. Returns the background color.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetBackColor function (u_progressbar)

This example calls the of_GetBackColor function:

```
Long ll_backcolor


ll_backcolor = uo_progress.of_GetBackColor()
MessageBox("Progress Bar", &
  "Background color property is " &
    + String(ll_backcolor))
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_GetCurrentText function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1337')}
```

Description

Retrieves the text currently displayed on the progress bar. This function retrieves any text displayed on the progress bar, not just the display text specified by the of_SetMessageText function.

Access

Public

Syntax

instancename.**of_GetCurrentText** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

String. Returns the current progress bar text.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_GetCurrentText function (u_progressbar)

This example calls the of_GetCurrentText function:

```
String ls_text


ls_text = uo_progress.of_GetCurrentText()
```

```
MessageBox("Progress Bar", &
  "Current text is " + ls_text)
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetDisplayStyle function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1339')}

Description

Retrieves the progress bar display style. The display style controls the information that displays within the bar while tracking progress.

Access

Public

Syntax

instancename.**of_GetDisplayStyle** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns values as follows:

- **0 (BAR)** Progress bar only
- **1 (PCTCOMPLETE)** Progress bar and percent complete, including the percent sign
- **2 (POSITION)** Current increment value
- **3 (MSGTEXT)** Progress bar and text as specified by the of_SetMessageText function

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_GetDisplayStyle function (u_progressbar)

This example calls the of_GetDisplayStyle function:

```
Integer li_displaystyle


li_displaystyle = uo_progress.of_GetDisplayStyle()
MessageBox("Progress Bar", &
  "DisplayStyle property is " &
    + String(li_displaystyle))
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetFillColor function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1341')}

Description

Retrieves the progress bar fill color.

Access

Public

Syntax

instancename.**of_GetFillColor** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Long. Returns the fill color.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetFillColor function (u_progressbar)

This example calls the of_GetFillColor function:

```
Long ll_fillcolor

ll_fillcolor = uo_progress.of_GetFillColor()
MessageBox("Progress Bar", &
  "Fill color property is " &
    + String(ll_fillcolor))
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetFillStyle function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1343')}
```

Description

Retrieves the progress bar fill style.

Access

Public

Syntax

instancename.**of_GetFillStyle** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns values as follows:

- **0 (LEFTRIGHT)** The progress bar fills from left to right
- **1 (RIGHTLEFT)** The progress bar fills from right to left
- **2 (TOPDOWN)** The progress bar fills from top to bottom
- **3 (BOTTOMUP)** The progress bar fills from bottom to top

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetFillStyle function (u_progressbar)

This example calls the of_GetFillStyle function:

```
Integer li_fillstyle


li_fillstyle = uo_progress.of_GetFillStyle()
MessageBox("Progress Bar", &
  "Fill style is "  + String(li_fillstyle))
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetInfo function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1345')}
```

Description

Retrieves object information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of u_progressbar
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information:

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_GetInfo function (u_progressbar)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


uo_progress.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
```

```
+ ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_GetMaximum function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1347')}

Description

Retrieves the maximum value used by the progress bar incrementation process.

Access

Public

Syntax

instancename.**of_GetMaximum** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns the maximum increment value for the progress bar.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetMaximum function (u_progressbar)

This example calls the of_GetMaximum function:

```
uo_progress.of_SetPosition(0)

FOR li_count = 1 TO &
  uo_progress.of_GetMaximum() STEP 1
  uo_progress.of_Increment(1)
  // Additional code here to perform your process
NEXT
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetMessageText function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1349')}

Description

Retrieves the progress messages specified in the of_SetMessageText function.

Access

Public

Syntax

instancename.**of_GetMessageText** (*text*)

Argument	Description

instancename	Instance name of u_progressbar
text	String array into which the function places the progress messages (passed by reference)

Return value

Integer. Returns the number of elements in the *text* array.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_GetMessageText function (u_progressbar)

This example calls the of_GetMessageText function:

```
String ls_text[], ls_all

Integer li_size, li_count

li_size = uo_progress.of_GetMessageText(ls_text)

FOR li_count = 1 to li_size STEP 1
  ls_all += ls_text[li_count] + "~r~n"
NEXT
MessageBox("Progress Bar", &
  "Progress messages are: " + ls_all)
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetMinimum function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1351')}
```

Description

Retrieves the minimum value used by the incrementation process. This value is the baseline from which the incrementation process begins.

Access

Public

Syntax

instancename.**of_GetMinimum** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns the minimum value for the incrementation process.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetMinimum function (u_progressbar)

This example calls the of_GetMinimum function:

```
Integer li_min


li_min = uo_progress.of_GetMinimum )
MessageBox("Progress Bar", &
  "Minimum value is " &
    + String(li_min))
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_GetPctComplete function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1353')}
```

Description

Retrieves the progress bar's current percent complete.

Access

Public

Syntax

instancename.**of_GetPctComplete** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns the current percent complete for the progress bar.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetPctComplete function (u_progressbar)

This example calls the of_GetPctComplete function:

```
Integer li_count


FOR li_count = 1 TO &
  uo_progress.of_GetMaximum() STEP 1
  uo_progress.of_Increment(1)
  gnv_app.of_GetFrame().SetMicroHelp &
  ("Count is: " + String(li_count) + &
    " Pct Complete is: " + &
      String(uo_progress.of_GetPctComplete()))
  // Additional code here to perform your process
NEXT
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_GetPosition function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1355')}
```

Description

Retrieves the progress bar's current increment value.

Access

Public

Syntax

instancename.**of_GetPosition** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns the current increment value for the progress bar.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetPosition function (u_progressbar)

This example calls the of_GetPosition function:

```
Integer li_count


FOR li_count = 1 TO &
  uo_progress.of_GetMaximum() STEP 1
  uo_progress.of_Increment(1)
  gnv_app.of_GetFrame().SetMicroHelp &
    ("Count is: " + &
      String(uo_progress.of_GetPosition()) + &
        " Pct Complete is: " + &
          String(uo_progress.of_GetPctComplete()))
  // Additional code here to perform your process
NEXT
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_GetStep function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1357')}
```

Description

Retrieves the step value the progress bar uses during a default increment process.

Access

Public

Syntax

instancename.**of_GetStep** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns the step value.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetStep function (u_progressbar)

This example calls the of_GetStep function:

```
Integer li_step


li_step = uo_progress.of_GetStep()
MessageBox("Progress Bar", &
  "Step value is " + String(li_step))
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetTextColor function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1359')}
```

Description

Retrieves the text color for the progress bar.

Access

Public

Syntax

instancename.**of_GetTextColor** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Long. Returns the progress bar text color.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetTextColor function (u_progressbar)

This example calls the of_GetTextColor function:

```
Long ll_color
```

```
ll_color = uo_progress.of_GetTextColor()
MessageBox("Progress Bar", &
  "Current text color is " + String(ll_color))
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_Increment function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1361')}

Description

Increments progress by either the default increment value or by a specified value.

Access

Public

Syntax

instancename.**of_Increment** ({ *incrementvalue* })

Argument	Description
instancename	Instance name of u_progressbar
incrementvalue (optional)	Integer specifying the increment value. The default increment value is 10, which you can modify by calling the of_SetStep function

Return value

Integer. Returns the new increment value.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_Increment function (u_progressbar)

This example calls the of_Increment function:

```
Integer li_count


uo_progress.of_SetPosition(0)
FOR li_count = 1 TO &
uo_progress.of_GetMaximum() STEP 1
uo_progress.of_Increment(1)
// Additional code here to perform your process
NEXT
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_IsAutoReset function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1363')}

Description

Reports whether the progress bar returns to zero after it reaches 100%.

Access

Public

Syntax

instancename.**of_IsAutoReset** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Boolean. Returns TRUE if u_progressbar clears the progress bar when it reaches 100% and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_IsAutoReset function (u_progressbar)

This example calls the of_IsAutoReset function:

```
n_cst_conversion lnv_conversion

Boolean lb_autoreset

lb_autoreset = uo_progress.of_IsAutoReset()
MessageBox("Progress Bar", &
  "Autoreset property is " &
    + lnv_conversion.of_String(lb_autoreset))
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_Reset function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1365')}
```

Description

Clears the progress bar, setting the position to the minimum and percent complete to zero.

Access

Public

Syntax

instancename.**of_Reset** ( )

Argument	Description
instancename	Instance name of u_progressbar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_Reset function (u_progressbar)

This example is from the of_SetPosition function:

```
...

IF ldc_completion >= 1 and ib_autoreset THEN
   this.Post Function of_Reset()
END IF
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetAutoReset function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1367')}

Description

Specifies whether to clear the progress bar when it reaches 100%. The progress bar reaches 100% when the incrementation process reaches the maximum value.

Access

Public

Syntax

instancename.**of_SetAutoReset** (*boolean*)

Argument	Description
instancename	Instance name of u_progressbar
boolean	Boolean indicating whether to clear the status bar when it reaches 100% (TRUE) or leave it visible (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetAutoReset function (u_progressbar)

This example calls the of_SetAutoReset function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetAutoReset(FALSE)
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetBackColor function (u_progressbar)

{button Object,JI(`>main',`bfcbiffh')} {button Examples,JI(`>Examples',`id_pfcoref_1369')}

Description

Sets the background color of the progress bar.

Access

Public

Syntax

instancename.**of_SetBackColor** (*color*)

Argument	Description
instancename	Instance name of u_progressbar
color	Long specifying the progress bar fill color. The default is 78682240 (light gray)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_SetBackColor function (u_progressbar)

This example from the Constructor event of a u_progressbar instance calls the of_SetBackColor function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetBackColor (RGB(255, 0, 0)) // Red
of_SetAutoReset(FALSE)
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_SetDisplayStyle function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1371')}
```

Description

Sets a display style for the progress bar. The display style controls the information that displays within the bar while tracking progress.

Access

Public

Syntax

instancename.**of_SetDisplayStyle** (*displaystyle*)

Argument	Description
instancename	Instance name of u_progressbar
displaystyle	Integer or u_progressbar constant specifying the progress bar display style: • **0 or BAR (default)** Bar only, no text • **1 or PCTCOMPLETE** Bar displays percent complete, including the percent sign • **2 or POSITION** Bar displays the current increment value • **3 or MSGTEXT** Bar displays text, as specified by the of_SetMessageText function

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you use MSGTEXT, you must also call the of_SetMessageText function to specify the text displayed in the status bar.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetDisplayStyle function (u_progressbar)

This example from the Constructor event of a u_progressbar instance calls the of_SetDisplayStyle function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_SetFillColor function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1373')}
```

Description

Sets the fill color of the progress bar.

Access

Public

Syntax

instancename.**of_SetFillColor** (*color*)

Argument	Description
instancename	Instance name of u_progressbar
color	Long specifying the progress bar fill color. The default is 16668075 (blue)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetFillColor function (u_progressbar)

This example from the Constructor event of a u_progressbar instance calls the of_SetFillColor function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor (RGB(128, 128, 128))
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_SetFillStyle function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1375')}
```

Description

Sets a fill style for the progress bar.

Access

Public

Syntax

instancename.**of_SetFillStyle** (*style*)

Argument	Description
instancename	Instance name of u_progressbar
style	Integer or u_progressbar constant specifying the fill style: • **0 or TOPDOWN** The bar fills from top to bottom • **1 or BOTTOMUP** The bar fills from bottom to top • **2 or LEFTRIGHT (default)** The bar fills from left to right • **3 or RIGHTLEFT** The bar fills from right to left

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetFillStyle function (u_progressbar)

This example calls the of_SetFillStyle function:

```
of_SetFillStyle (BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_SetFont function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1377')}
```

Description

Changes the font displayed in the progress bar.

Access

Protected

Syntax

instancename.**of_SetFont** (*fontface*, *fontsize*, *fontcharset*, *fontfamily*, *fontpitch*, *bold*, *italic*, *underline*)

Argument	Description

instancename	Instance name of u_progressbar
fontface	String specifying the new font. If you pass a NULL, the function does not change the font
fontsize	Integer specifying the point size of the new font. If you pass a NULL, the function does not change the font size
fontcharset	Integer specifying the character set: • 0-ANSI • 1-The default character set for the specified font • 2-Symbol • 3-Shift JIS • 4-OEM If you pass a NULL, the function does not change the font character set
fontfamily	FontFamily enumerated data type specifying the font family: • AnyFont! • Roman! • Swiss! • Modern! • Script! • Decorative! If you pass a NULL, the function does not change the font family
fontpitch	FontPitch enumerated data type specifying the pitch of the new font: • Default! • Fixed! • Variable! If you pass a NULL, the function does not change the pitch
bold	Boolean specifying whether text is bold: • TRUE—Bold • FALSE—Not bold (default) If you pass a NULL, the function does not change the Bold property
italic	Boolean specifying whether text is italic: • TRUE—Italic • FALSE—Not italic (default) If you pass a NULL, the function does not change the italic property
underline	Boolean specifying whether text is underlined: • TRUE—Underlined • FALSE—Not underlined (default) If you pass a NULL, the function does not change the underline property

Return value

String. Returns the result of the Modify PowerScript function that changes the font; an empty string indicates success.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_SetFont function (u_progressbar)

This example is from the of_SetFontBold function:

```
String ls_fontface

Long ll_fontsize
FontFamilylff_fontfamily
FontPitchlfp_fontpitch
Boolean lb_bold, lb_italic, lb_underline

SetNull(ls_fontface)
SetNull(ll_fontsize)
SetNull(lff_fontfamily)
SetNull(lfp_fontpitch)
SetNull(lb_bold)
SetNull(lb_italic)
SetNull(lb_underline)

// ab_bold is the argument to of_SetBold
Return of_SetFont(ls_fontface, ll_fontsize, &
  lff_fontfamily, lfp_fontpitch, ab_bold, &
    lb_italic, lb_underline)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_SetFontBold function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1379')}
```

Description

Sets the Bold property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontBold** (*boolean*)

Argument	Description
instancename	Instance name of u_progressbar
boolean	Boolean specifying whether progress bar text is bold (TRUE) or not (FALSE)

Return value

String. Returns the result of the Modify PowerScript function that changes the Bold property; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetFontBold function (u_progressbar)

This example calls the of_SetFontBold function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontBold(TRUE)
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_SetFontCharSet function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1381')}
```

Description

Sets the CharSet property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontCharSet** (*fontcharset*)

Argument	Description
instancename	Instance name of u_progressbar
fontcharset	Integer specifying the character set: • 0-ANSI • 1-The default character set for the specified font • 2-Symbol • 3-Shift JIS • 4-OEM

Return value

String. Returns the result of the Modify PowerScript function that changes the font face; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_SetFontCharSet function (u_progressbar)

This example calls the of_SetFontCharSet function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontCharSet(1)
of_SetFontFamily(Script!)
of_SetFontSize(12)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_SetFontFace function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1383')}
```

Description

Sets the Face (typeface) property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontFace** (*fontface*)

Argument	Description
instancename	Instance name of u_progressbar
fontface	String specifying the font face (such as Arial)

Return value

String. Returns the result of the Modify PowerScript function that changes the font face; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetFontFace function (u_progressbar)

This example from the Constructor event of a u_progressbar instance calls the of_SetFontFace function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontFace("Monotype Corsiva")
of_SetFontFamily(Script!)
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetFontFamily function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1385')}
```

Description

Sets the font Family property (such as Roman) for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontFamily** (*fontfamily*)

Argument	Description
instancename	Instance name of u_progressbar
fontfamily	FontFamily enumerated data type specifying the font family: • AnyFont! • Roman! • Swiss! • Modern! • Script! • Decorative!

Return value

String. Returns the result of the Modify PowerScript function that changes the font family; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetFontFamily function (u_progressbar)

This example calls the of_SetFontFamily function:

```
of_SetFillStyle(BOTTOMUP)


of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontFace("Monotype Corsiva")
of_SetFontFamily(Script!)
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_SetFontItalic function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1387')}
```

Description

Sets the Italic property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontItalic** (*boolean*)

Argument	Description
instancename	Instance name of u_progressbar
boolean	Boolean specifying whether progress bar text is italic (TRUE) or not (FALSE)

Return value

String. Returns the result of the Modify PowerScript function that changes the Italic property; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetFontItalic function (u_progressbar)

This example calls the of_SetFontItalic function:

```
of_SetFillStyle(BOTTOMUP)
```

```
of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontItalic (TRUE)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_SetFontPitch function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1389')}
```

Description

Sets the Pitch property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontPitch** (*fontpitch*)

Argument	Description
instancename	Instance name of u_progressbar
fontpitch	FontPitch enumerated data type specifying the font pitch: • Default! • Fixed! • Variable!

Return value

String. Returns the result of the Modify PowerScript function that changes the font pitch; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_SetFontPitch function (u_progressbar)

This example calls the of_SetFontPitch function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFillColor(RGB(128, 128, 128))
of_SetFontPitch(Variable!)
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_SetFontSize function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1391')}
```

Description

Sets the Size property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontSize** (*fontsize*)

Argument	Description
instancename	Instance name of u_progressbar
fontsize	Long specifying the font size, in points, for the progress bar text. Do not specify a negative number for this value

Return value

String. Returns the result of the Modify PowerScript function that changes the font size; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetFontSize function (u_progressbar)

This example calls the of_SetFontSize function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFontSize(10)
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_SetFontUnderline function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1393')}
```

Description

Sets the Underline property for progress bar text.

Access

Public

Syntax

instancename.**of_SetFontUnderline** (*boolean*)

Argument	Description
instancename	Instance name of u_progressbar
boolean	Boolean specifying whether progress bar text is underlined (TRUE) or not (FALSE)

Return value

String. Returns the result of the Modify PowerScript function that changes the underline property; an empty string indicates success.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_SetFontUnderline function (u_progressbar)

This example calls the of_SetFontUnderline function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetFontUnderline (TRUE)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_SetMaximum function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1395')}
```

Description

Sets the maximum increment value for the progress bar (also used as the basis for the progress bar's percent complete calculation).

Access

Public

Syntax

instancename.**of_SetMaximum** (*maximum*)

Argument	Description
instancename	Instance name of u_progressbar
maximum	Integer specifying the maximum increment value.

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The default for this value is 100. The of_SetPosition function uses this value as the dividend in its percent complete calculation (percent complete = current position/maximum * 100).

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetMaximum function (u_progressbar)

This example calls the of_SetMaximum function:

```
SELECT COUNT(emp_id)

  INTO :il_max
  FROM Employee
  USING SQLCA ;
IF il_max > 0 THEN
  uo_progress.of_SetMaximum(il_max)
```

```
ELSE
  MessageBox("SQL error", &
    "SELECT COUNT failed~r~n" + SQLCA.SQLERRTEXT)
END IF
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetMessageText function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1397')}
```

Description

Sets the text strings that display at regular intervals when the progress bar uses the message text display style.

Access

Public

Syntax

instancename.**of_SetMessageText** (*text*)

Argument	Description
instancename	Instance name of u_progressbar
text	String array whose elements contain the values to display on the progress bar

Return value

Integer. Returns the number of elements in *text* if the function succeeds and -1 if an error occurs.

Usage

You typically call this function after calling of_SetDisplayStyle(MSGTEXT).

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_SetMessageText function (u_progressbar)

This example calls the of_SetMessageText function:

```
String ls_msgtext[ ] = {"Ten", "Twenty", &

  "Thirty", "Forty", "Fifty", "Sixty", &
    "Seventy", "Eighty", "Ninety", "One Hundred"}

of_SetDisplayStyle(MSGTEXT)
of_SetMessageText(ls_msgtext)
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetMinimum function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1399')}
```

Description

Sets the initial increment value for the progress bar.

Access

Public

Syntax

instancename.**of_SetMinimum** (*minimum*)

Argument	Description
instancename	Instance name of u_progressbar
minimum	Integer specifying the initial increment value for the progress bar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_SetPosition and of_Reset functions use the minimum to determine the initial position value.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_SetMinimum function (u_progressbar)

This example calls the of_SetMinimum function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetMinimum(0)
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetPosition function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1401')}
```

Description

Sets the progress bar's current position and updates percent complete.

Access

Public

Syntax

instancename.**of_SetPosition** (*position*)

Argument	Description
instancename	Instance name of u_progressbar
position	Integer specifying the progress bar's position

Return value

Integer. Returns the current increment value if the function succeeds and -1 if an error occurs.

Usage

Call this function to establish an initial position for the progress bar before beginning an incrementation process.

If *position* is less than the minimum (the default minimum is 0), this function sets the position to the minimum. If *position* is greater than the maximum (the default maximum is 100), this function sets the position to the maximum. You modify the default minimum and maximum by calling the of_SetMinimum and of_SetMaximum functions.

The of_Increment function calls this function to update the current position and percent complete.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetPosition function (u_progressbar)

This example calls the of_SetPosition function:

```
Integer li_count


uo_progress.of_SetPosition(0)
For li_count = 1 to 100 STEP 1
  uo_progress.of_Increment(1)
NEXT
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetStep function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1403')}
```

Description

Sets the step value the progress bar uses during a default increment process.

Access

Public

Syntax

instancename.**of_SetStep** (*stepvalue*)

Argument	Description
instancename	Instance name of u_progressbar
stepvalue	Integer specifying the default increment value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The progress bar uses this value as the default when you call of_Increment with no arguments.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetStep function (u_progressbar)

This example calls the of_SetStep function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetStep(5)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_SetTextColor function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1405')}
```

Description

Sets the color of text in the progress bar.

Access

Public

Syntax

instancename.**of_SetTextColor** (*color*)

Argument	Description
instancename	Instance name of u_progressbar
color	Long specifying the progress bar text color. The default is 0 (black)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetTextColor function (u_progressbar)

This example from the Constructor event of a u_progressbar instance calls the of_SetTextColor function:

```
of_SetFillStyle(BOTTOMUP)

of_SetDisplayStyle(PCTCOMPLETE)
of_SetTextColor(RGB(255, 255, 255))
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_UpdateVisuals function (u_progressbar)

```
{button Object,JI(`>main',`bfcbiffh')} {button
Examples,JI(`>Examples',`id_pfcoref_1407')}
```

Description

Resizes the progress bar and updates the display text.

Access

Protected

Syntax

instancename.**of_UpdateVisuals** (*completionvalue*)

Argument	Description
instancename	Instance name of u_progressbar
completionvalue	Decimal specifying the completion value of the progress bar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_UpdateVisuals function (u_progressbar)

This example is from the of_SetPosition function:

```
...

li_rc = of_UpdateVisuals (ldc_completion)
dw_progress.SetRedraw(true)
...
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

u_st_splitbar

```
{button Ancestor,JI(`>main',`bfcdagci')} {button See also,PI(`',`id_pfcoref_1409')}
{button Functions,JI(`>list_win',`id_pfcoref_1416')} {button
Events,JI(`>list_win',`id_pfcoref_1411')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1410')}
```

Description

Splitbar service. Use this control to add splitbar functionality to two or more controls in a window.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this object to add a splitbar to a window. To use this object:

1 Place the object on a window between two or more controls.

2 (Optional) If you are using the window resize service, register the splitbar:

```
this.of_SetResize(TRUE)

this.inv_resize.of_Register &
  (tv_deptemp, 0, 0, 0, 100)
this.inv_resize.of_Register &
  (st_splitbar, 0, 0, 0, 100)
this.inv_resize.of_Register &
  (lv_empdetail, 0, 0, 0, 100)
```

3 Move and resize the splitbar object and the surrounding objects until they relate appropriately. For example, a vertical splitbar between two objects should have the same height as the surrounding objects.

4 Add code to the splitbar control's Constructor event to register the controls that resize when the user moves the splitbar:

```
this.of_Register(tv_1, LEFT

this.of_Register(lv_1, RIGHT)
this.of_SetBarColor(RGB(192, 192, 192))
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

u_st_splitbar

n_cst_resize

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

u_st_splitbar

{button Functions,JI(`>list_win',`id_pfcoref_1416')} {button Events,JI(`>list_win',`id_pfcoref_1411')}

U_st_splitbar has instance variables:

Name	Description	Data type	Access	Usage
ABOVE	Constant set to 3	Integer	Public	Use with of_Register
BELOW	Constant set to 4	Integer	Public	Use with of_Register
BOTTOMMOST	Constant set to 4	Integer	Protected	Internal
HORIZONTAL	Constant set to 2	Integer	Public	Internal
ib_performredraw	Controls redraw	Boolean	Protected	Internal
idrg_lefttop[ ]	Upper-left coordinate for all registered controls	DragObject	Protected	Internal
idwg_rightbottom[ ]	Lower-right coordinate for all registered controls	DragObject	Protected	Internal
ii_barwidth	Thickness of splitbar	Integer	Protected	Internal
ii_lefttopbound	Upper-left coordinate	Integer	Protected	Internal
ii_minobjectsize	Minimum object size	Integer	Protected	Set with of_SetMinObjectSize
ii_prevpositionx	Previous x coordinate	Integer	Protected	Internal
ii_prevpositiony	Previous y coordinate	Integer	Protected	Internal
ii_bottomrightbound	Bottom right coordinate	Integer	Protected	Internal
ii_rounding	Rounding factor	Integer	Protected	Internal
ii_style	Splitbar style (horizontal or vertical)	Integer	Protected	Set with of_SetStyle
il_barcolor	Splitbar color	Long	Protected	Set with of_SetBarColor
il_barmovecolor	Splitbar color when it is being moved	Long	Protected	Set with of_SetBarMove Color
ir_lefttopheight[ ]	Left top height for all registered controls	Real	Protected	Internal
ir_lefttopwidth[ ]	Left top width for all registered controls	Real	Protected	Internal
ir_lefttopx[ ]	Top left x coordinate for all registered controls	Real	Protected	Internal
ir_lefttopy[ ]	Top left y coordinate for all registered controls	Real	Protected	Internal
ir_rightbottomheight[ ]	Bottom right height for all registered controls	Real	Protected	Internal
ir_rightbottomwidth[ ]	Bottom right width for all registered controls	Real	Protected	Internal
ir_rightbottomx[ ]	Bottom right x coordinate for all registered controls	Real	Protected	Internal
ir_rightbottomy[ ]	Bottom right y coordinate for all registered controls	Real	Protected	Internal

is_horizontalpointer	Icon name for the pointer that displays when over a horizontal splitbar	String	Protected	Set with of_SetHorizontal Pointer (default is SizeNS!)
is_verticalpointer	Icon name for the pointer that displays when over a vertical splitbar	String	Protected	Set with of_SetHorizontal Pointer (default is SizeWE!)
itab_parent	References the Tab control that contains the splitbar	Tab	Protected	Internal
iuo_parent	References the custom standard user object that contains the splitbar	UserObject	Protected	Internal
iw_parent	References the window that contains the splitbar	Window	Protected	Internal
LEFT	Constant set to 1	Integer	Public	Use with of_Register
LEFTMOST	Constant set to 1	Integer	Protected	Internal
RIGHT	Constant set to 2	Integer	Public	Use with of_Register
RIGHTMOST	Constant set to 2	Integer	Protected	Internal
TOPMOST	Constant set to 3	Integer	Protected	Internal
VERTICAL	Constant set to 1	Integer	Public	Vertical

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

u_st_splitbar

{button Functions,JI(`>list_win',`id_pfcoref_1416')} {button Instance variables,JI(`>list_win',`id_pfcoref_1410')}

Constructor event

LButtonUp event

MouseMove event

U_st_splitbar includes precoded events:

Constructor
LButtonUp
MouseMove

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

Constructor event (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1413')}

Description

Automatically calculates the bar orientation (vertical or horizontal) and initializes other status-bar settings.

Usage

Add code to this event to register the controls that resize when the user moves the splitbar.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

Constructor event (u_st_splitbar)

This example shows code you might add to the Constructor event:

```
this.of_Register(tv_1, LEFT)

this.of_Register(lv_1, RIGHT)
this.of_SetBarColor(RGB(192, 192, 192))
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

LButtonUp event (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')}

Description

Calls the of_LButtonUp function.

Usage

PFC uses this event to resize objects when the user moves the splitbar.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

MouseMove event (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')}

Description

Calls the of_MouseMove function.

Usage

If the user presses the left mouse button, PFC uses this event to move the splitbar, refresh the location, and redraw if necessary.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

u_st_splitbar

{button Events,JI(`>list_win',`id_pfcoref_1411')} {button Instance variables,JI(`>list_win',`id_pfcoref_1410')}

of_GetBarColor function

of_GetBarMoveColor function

of_GetExtremePoint function

of_GetHorizontalPointer function

of_GetInfo function

of_GetMinObjectSize function

of_GetVerticalPointer function

of_LButtonUp function

of_MouseMove function

of_Redraw function

of_Register function

of_SetBarColor function

of_SetBarMoveColor function

of_SetHorizontalPointer function

of_SetMinObjectSize function

of_SetVerticalPointer function

of_UpdateObjectData function

U_st_splitbar contains precoded object functions:

- of_GetBarColor
- of_GetBarMoveColor
- of_GetExtremePoint
- of_GetHorizontalPointer
- of_GetInfo
- of_GetMinObjectSize
- of_GetVerticalPointer
- of_LButtonUp
- of_MouseMove
- of_Redraw
- of_Register
- of_SetBarColor
- of_SetBarMoveColor
- of_SetHorizontalPointer
- of_SetMinObjectSize
- of_SetVerticalPointer
- of_UpdateObjectData

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_GetBarColor function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1418')}

Description

Retrieves the splitbar color.

Access

Public

Syntax

instancename.**of_GetBarColor** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

Long. Returns the splitbar color.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetBarColor function (u_st_splitbar)

This example calls the of_GetBarColor function:

```
Long ll_colorll_color = st_splitbar.of_GetBarColor()
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_GetBarMoveColor function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1420')}

Description

Retrieves the color that displays when the splitbar is being moved.

Access

Public

Syntax

instancename.**of_GetBarMoveColor** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

Long. Returns the splitbar move color.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_GetBarMoveColor function (u_st_splitbar)

This example calls the of_GetBarMoveColor function:

```
Long ll_colorll_color = st_splitbar.of_GetBarMoveColor()
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetExtremePoint function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1422')}

Description

Retrieves the specified extreme point coordinate.

Access

Public

Syntax

instancename.**of_GetExtremePoint** (*extremetype*)

Argument	Description
instancename	Instance name of u_st_splitbar
extremetype	Integer or u_st_splitbar constant that specifies the extreme point to be returned: • **1 or LEFTMOST** The extreme point to the left • **2 or RIGHTMOST** The extreme point to the right

- **3 or TOPMOST** The extreme point at the top
- **4 or BOTTOMMOST** The extreme point at the bottom

Return value

Integer. Returns the coordinate of the specified extreme point.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetExtremePoint function (u_st_splitbar)

This example is from the of_LButtonUp function:

```
...

IF ii_style = HORIZONTAL THEN
li_miny = of_GetExtremePoint(TOPMOST)
li_maxy = of_GetExtremePoint(BOTTOMMOST)
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_GetHorizontalPointer function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1424')}
```

Description

Retrieves the name of the pointer that displays when the cursor is over a horizontal splitbar.

Access

Public

Syntax

instancename.**of_GetHorizontalPointer** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

String. Returns the name of the pointer that displays when the cursor is over a horizontal splitbar.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_GetHorizontalPointer function (u_st_splitbar)

This example calls the of_GetHorizontalPointer function:

```
String ls_pointer


ls_pointer = st_1.of_GetHorizontalPointer()
MessageBox("Splitbar", &
  "Horizontal pointer is " + ls_pointer)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_GetInfo function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1426')}
```

Description

Retrieves object information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
instancename	Instance name of u_st_splitbar
infoobject	N_cst_infoattrib instance into which the function places information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information:

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetInfo function (u_st_splitbar)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


uo_splitbar.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetMinObjectSize function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1428')}
```

Description

Retrieves the minimum size (in PBUs) for registered objects.

Access

Public

Syntax

instancename.**of_GetMinObjectSize** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

Integer. Returns the minimum size for registered objects.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetMinObjectSize function (u_st_splitbar)

This example calls the of_GetMinObjectSize function:

```
Integer li_minsize


li_minsize = st_1.of_GetMinObjectSize()
MessageBox("Splitbar", &
  "Minimum size is " + String(li_minsize))
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetVerticalPointer function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1430')}
```

Description

Retrieves the name of the pointer that displays when the cursor is over a vertical splitbar.

Access

Public

Syntax

instancename.**of_GetVerticalPointer** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

String. Returns the name of the pointer that displays when the cursor is over a vertical splitbar.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetVerticalPointer function (u_st_splitbar)

This example calls the of_GetVerticalPointer function:

```
String ls_pointer


ls_pointer = st_1.of_GetVerticalPointer()
MessageBox("Splitbar", &
  "Vertical pointer is " + ls_pointer)
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_LButtonUp function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1432')}

Description

Resizes registered objects when the user releases the left mouse button.

Access

Protected

Syntax

instancename.**of_LButtonUp** (*flags*, *x*, *y*)

Argument	Description
instancename	Instance name of u_st_splitbar
flags	UnsignedLong indicating the modifier keys and mouse buttons that were pressed
x	Integer indicating the x position of the mouse click
y	Integer indicating the y position of the mouse click

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_LButtonUp function (u_st_splitbar)

This example is from the LButtonUp event:

```
of_LButtonUp(flags, xpos, ypos)
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_MouseMove function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1434')}

Description

Refreshes the screen as the user moves the splitbar.

Access

Protected

Syntax

instancename.**of_MouseMove** (*flags*, *x*, *y*)

Argument	Description
instancename	Instance name of u_st_splitbar
flags	UnsignedLong indicating the modifier keys and mouse buttons that are currently pressed
x	Integer indicating the x position of the mouse
y	Integer indicating the y position of the mouse

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_MouseMove function (u_st_splitbar)

This example is from the MouseMove event:

```
IF NOT KeyDown(keyLeftButton!) THEN

  Return
END IF
of_MouseMove(flags, xpos, ypos)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_Redraw function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1436')}
```

Description

Redraws objects adjacent to the splitbar.

Access

Protected

Syntax

instancename.**of_Redraw** (*x*, *width*, *y*, *height*)

Argument	Description
instancename	Instance name of u_st_splitbar
x	Integer specifying the splitbar's previous x coordinate
width	Integer specifying the splitbar's previous width
y	Integer specifying the splitbar's previous y coordinate
height	Integer specifying the splitbar's previous height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_Redraw function (u_st_splitbar)

This example is from the of_MouseMove function:

```
...

IF ii_style = HORIZONTAL THEN
  this.Y = li_pointery
  this.Height = ii_barwidth
  IF ib_performredraw THEN
    IF (li_prevy <> this.Y) THEN
      of_Redraw(li_prevx, li_prevwidth, &
        li_prevy, li_prevheight)
    END IF
  END IF
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_Register function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1438')}
```

Description

Registers the controls to be moved and resized when the user moves the splitbar.

Access

Public

Syntax

instancename.**of_Register** (*control*, *relativeposition*)

Argument	Description
instancename	Instance name of u_st_splitbar
control	DragObject containing the control to be registered
relativeposition	Integer or u_st_splitbar constant specified how the service positions

control relative to the splitbar:

- **1 or LEFT** Position *control* to the left of the splitbar
- **2 or RIGHT** Position *control* to the right of the splitbar
- **3 or ABOVE** Position *control* above the splitbar
- **4 or BELOW** Position *control* below the splitbar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event to specify the controls affected by the splitbar.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_Register function (u_st_splitbar)

This example calls the of_Register function:

```
this.of_Register (tv_1, LEFT)

this.of_Register (lv_1, RIGHT)
this.of_SetBarColor(RGB(192, 192, 192))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetBarColor function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1440')}
```

Description

Specifies the splitbar color.

Access

Public

Syntax

instancename.**of_SetBarColor** (*color*)

Argument	Description
instancename	Instance name of u_st_splitbar
color	Long specifying the splitbar color. The default bar color is maintained in the il_barcolor instance variable

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_SetBarColor function (u_st_splitbar)

This example calls the of_SetBarColor function:

```
this.of_SetBarColor(RGB(192, 192, 192))
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_SetBarMoveColor function (u_st_splitbar)

{button Object,JI(`>main',`bfccaeje')} {button Examples,JI(`>Examples',`id_pfcoref_1442')}

Description

Specifies the color that displays when the splitbar is being moved.

Access

Public

Syntax

instancename.**of_SetBarMoveColor** (*color*)

Argument	Description
instancename	Instance name of u_st_splitbar
color	Long specifying the splitbar color when the user moves it. The default bar move color is maintained in the il_barmovecolor instance variable

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetBarMoveColor function (u_st_splitbar)

This example calls the of_SetBarMoveColor function:

```
this.of_Register(tv_1, LEFT)

this.of_Register(lv_1, RIGHT)
this.of_SetBarColor(RGB(192, 192, 192))
this.of_SetBarMoveColor(RGB(0, 0, 0))
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetHorizontalPointer function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1444')}
```

Description

Specifies the name of the pointer that displays when the cursor is over a horizontal splitbar.

Access

Public

Syntax

instancename.**of_SetHorizontalPointer** (*pointername*)

Argument	Description
instancename	Instance name of u_st_splitbar
pointername	String specifying the pointer that displays when the cursor is over a horizontal splitbar. This can be one of the following: • Arrow! • Beam! • Cross! • Hourglass! • SizeNESW! • SizeNS! (default) • SizeNWSE! • SizeWE! • Uparrow! • Name of a customized cursor file (CUR extension). This file must be accessible at execution time

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_SetHorizontalPointer function (u_st_splitbar)

This example calls the of_SetHorizontalPointer function:

```
this.of_Register(tv_1, LEFT)

this.of_Register(lv_1, RIGHT)
this.of_SetHorizontalPointer ("SizeNS!")
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetMinObjectSize function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1446')}
```

Description

Specifies the minimum size (in PBUs) for registered objects.

Access

Public

Syntax

instancename.**of_SetMinObjectSize** (*minimumsize*)

Argument	Description
instancename	Instance name of u_st_splitbar
minimumsize	Integer specifying the minimum size (in PBUs) for registered objects

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_SetMinObjectSize function (u_st_splitbar)

This example calls the of_SetMinObjectSize function:

```
this.of_Register(tv_1, LEFT)

this.of_Register(lv_1, RIGHT)
this.of_SetBarColor(RGB(192,192,192))
this.of_SetBarMoveColor(RGB(128, 128, 128))
this.of_SetMinObjectSize(100)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetVerticalPointer function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1448')}
```

Description

Specifies the name of the pointer that displays when the cursor is over a vertical splitbar.

Access

Public

Syntax

instancename.**of_SetVerticalPointer** (*pointername*)

Argument	Description
instancename	Instance name of u_st_splitbar

pointername	String specifying the pointer that displays when the cursor is over a vertical splitbar. This can be one of the following: • Arrow! • Beam! • Cross! • Hourglass! • SizeNESW! • SizeNS! (default) • SizeNWSE! • SizeWE! • Uparrow! • Filename of a customized cursor file (CUR extension). This file must be accessible at execution time

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in the splitbar's Constructor event.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetVerticalPointer function (u_st_splitbar)

This example calls the of_SetVerticalPointer function:

```
this.of_Register(tv_1, LEFT)

this.of_Register(lv_1, RIGHT)
this.of_SetBarColor(RGB(192,192,192))
this.of_SetVerticalPointer("SizeWE!")
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_UpdateObjectData function (u_st_splitbar)

```
{button Object,JI(`>main',`bfccaeje')} {button
Examples,JI(`>Examples',`id_pfcoref_1450')}
```

Description

Updates the instance variables that maintain object coordinates.

Access

Protected

Syntax

instancename.**of_UpdateObjectData** ( )

Argument	Description
instancename	Instance name of u_st_splitbar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_UpdateObjectData function (u_st_splitbar)

This example is from the of_LButtonUp function:

```
...

li_deltax = li_pointerx - ii_prevpositionx
li_deltay = li_pointery - ii_prevpositiony
of_UpdateObjectData()
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

u_tabpg

```
{button Ancestor,JI(`>main',`bfcbbcea')} {button See also,PI(`',`id_pfcoref_1452')}
```

Description

Tab page visual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this visual object in the User Object painter as the ancestor for all tab pages. After defining the tab page's appearance and functionality, you then place these tab pages on tab user objects in the User Object painter. To insert a tab page object, click the right mouse button on a tab control, select Insert UserObject, and double-click on a u_tabpg descendant.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

u_tabpg

u_tab

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

Standard Class User Objects

About this chapter

This chapter describes the standard class user objects in PFC.

Contents

The standard class user objects are listed in alphabetical order. Each object's discussion includes an alphabetical listing of instance variables, events, and object functions.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

n_cn

{button See also,PI(`',`id_pfcoref_1455')} {button Functions,JI(`>list_win',`id_pfcoref_1456')}

Description

Connection object for use with all distributed PFC applications. You can either use this object as is or create descendants that include customized or extended functionality.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use n_cn whenever you would normally create a Connection object. By calling the of_Init function, you can easily initialize the Connection object.

To use n_cn:

1 Declare a variable of type n_cn (this example declares an instance variable):

```
n_cn    icn_connection
```

2 Create the Connection object:

```
icn_connection = CREATE n_cn
```

3 Call the of_Init function to initialize Connection object fields:

```
icn_connection.of_Init &

    (gnv_app.of_GetAppINIFile(),"Connect")
```

4 Continue the distributed application as appropriate.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_cn

n_trp

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

n_cn

of_Init function

of_MessageBox function

N_cn includes precoded object functions:

of_Init

of_MessageBox

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_Init function (n_cn)

{button Object,JI(`>main',`bfcebejd')} {button Examples,JI(`>Examples',`id_pfcoref_1458')}

Description

Initializes a Connection object's properties using values from an INI file section or registry key.

Access

Public

Syntax

instancename.**of_Init** (*fileorkey*, *section*)

Argument	Description
instancename	Instance name of n_cn
fileorkey	String specifying either the INI file or the registry key containing connection information. If you specify the INI file, you must also specify *section*
section	String specifying the INI file section containing connection information. If *fileorkey* specifies an INI file, you must specify this value; if *fileorkey* specifies a registry key, you cannot specify this value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The INI file section or registry key must contain the following keywords:

Application

ConnectString

Driver

Location

Options

Password

Trace

UserID

If the INI file section or registry key doesn't have a value, the function defaults the value to an empty string.

For complete information on distributed computing, see Application Techniques.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_Init function (n_cn)

This example calls the of_Init function (assuming an icn_connection instance variable):

```
Integer   li_return


icn_connection = CREATE n_cn
li_return = icn_connection.of_Init &
        ("c:\HKEY_CURRENT_USER\Software\" &
        + "Powersoft\EISUSER\Connect")
IF li_return = -1 THEN
        MessageBox("Connect", &
       "Remote connection error")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("Connection succeeded")
END IF
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_MessageBox function (n_cn)

```
{button Object,JI(`>main',`bfcebejd')} {button
Examples,JI(`>Examples',`id_pfcoref_1460')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_cn
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Connection objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_MessageBox function (n_cn)

This example calls the of_MessageBox function:

```
of_Messagebox('pfc_cn_dberror','Save', &
```

```
    as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

n_cxinfo

{button See also,PI(`',`id_pfcoref_1462')}

Description

ContextInformation nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder ContextInformation object.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

n_cxinfo

n_cxk

n_inet

n_ir

n_srv

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

n_cxk

{button See also,PI(`',`id_pfcoref_1464')}

Description

ContextKeyword nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder ContextKeyword object.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cxk

n_cxinfo

n_inet

n_ir

n_srv

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_dda

{button See also,PI(`',`id_pfcoref_1466')}

Description

DynamicDescriptionArea nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder DynamicDescriptionArea object.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

n_dda

n_dsa

n_err

n_msg

n_tr

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

n_ds

{button See also,PI(`',`id_pfcoref_1468')} {button Functions,JI(`>list_win',`id_pfcoref_1496')} {button Events,JI(`>list_win',`id_pfcoref_1470')} {button Instance variables,JI(`>list_win',`id_pfcoref_1469')}

Description

DataStore object for use with all PFC applications. This user object includes:

- Functions to enable and disable DataStore services
- Events and functions that call DataStore services
- Events and functions that are called by the logical unit of work service

You can either use this object asis or create descendants that include customized or extended functionality.

N_ds is a self-updating object.

Ancestry

Library

PFCMAIN.PBL

PFEAPSRV.PBL

Object relationships

n_cst_conversion

n_cst_dssrv

n_cst_dssrv_multitable

n_cst_dssrv_printpreview

n_cst_dssrv_report

n_cst_platform

n_tr

s_pagesetupattrib

s_printdlgattrib

w_master

Usage

Use n_ds whenever you would normally create a DataStore. N_ds has the same relationship to n_cst_dssrv as u_dw has to n_cst_dwsrv.

To use n_ds:

1 Declare a variable of type n_ds (this example declares an instance variable):

```
n_ds  ids_datastore
```

2 Create the DataStore:

```
ids_datastore = CREATE n_ds
```

3 Associate a DataWindow object with the DataStore:

```
ids_datastore.DataObject = "d_emplist"
```

4 Set the Transaction object by calling the of_SetTransObject function:

```
ids_datastore.of_SetTransObject(SQLCA)
```

5 (Optional) Enable DataStore services:

```
inv_datastore.of_SetPrintPreview(TRUE)

inv_datastore.of_SetReport(TRUE)
```

6 Add code to the pfc_Retrieve event to retrieve rows:

```
Return this.Retrieve()
```

7 Access data and perform other DataStore functions as needed. This example retrieves data:

```
inv_datastore.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with

HelpNDoc's Intuitive Interface

n_ds

n_cst_dwsrv

u_dw

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_ds

{button Functions,JI(`>list_win',`id_pfcoref_1496')} {button Events,JI(`>list_win',`id_pfcoref_1470')}

N_ds contains instance variables.

Instance variable	Description	Data type	Access	Usage
ib_append	Indicates whether the Retrieve function appends	Boolean	Protected	Set with of_SetAppend
ib_isupdateable	Indicates whether the DataStore is updatable	Boolean	Protected	Set with of_SetUpdateable
inv_base	Reference variable for basic DataStore service	n_cst_dssrv	Public	Use in dot notation to access n_cst_dssrv functions and events
inv_multitable	Reference variable for multitable update service	n_cst_dssrv_multitable	Public	Use in dot notation to access n_cst_dssrv_multitable functions and events
inv_printpreview	Reference variable for print preview service	n_cst_dssrv_printpreview	Public	Use in dot notation to access n_cst_dssrv_printpreview functions and events
inv_report	Reference variable for report service	n_cst_dssrv_report	Public	Use in dot notation to access n_cst_dssrv_report functions and events
ipo_updaterequestor	Update requestor	PowerObject	Protected	Set with of_SetUpdateRequestor
is_updatesallowed	Specifies allowable updates	String	Protected	Internal
itr_object	Transaction object used by the DataStore	n_tr	Public	Set with of_SetTransObject

Created with the Personal Edition of HelpNDoc: Free EPub producer

n_ds

{button Functions,JI(`>list_win',`id_pfcoref_1496')} {button Instance variables,JI(`>list_win',`id_pfcoref_1469')}

DBError event

Destructor event

pfc_PageSetup event

pfc_PageSetupDlg event
pfc_PostUpdate event
pfc_PrePageSetupDlg event
pfc_PrePrintDlg event
pfc_Print event
pfc_PrintDlg event
pfc_PrintImmediate event
pfc_PrintPreview event
pfc_ResetUpdate event
pfc_Retrieve event
pfc_Ruler event
pfc_Update event
pfc_UpdatePrep event
pfc_UpdatesPending event
pfc_Validation event
pfc_Zoom event
RetrieveStart event
SQLPreview event

N_ds includes precoded event scripts:

DBError
Destructor
pfc_PageSetup
pfc_PageSetupDlg
pfc_PostUpdate
pfc_PrePageSetupDlg
pfc_PrePrintDlg
pfc_Print
pfc_PrintDlg
pfc_PrintImmediate
pfc_PrintPreview
pfc_ResetUpdate
pfc_Retrieve
pfc_Ruler
pfc_Update
pfc_UpdatePrep
pfc_UpdatesPending
pfc_Validation
pfc_Zoom
RetrieveStart
SQLPreview

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

DBError event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Displays a message box informing the user that a database error occurred.

Usage

This event is called when there is a database error.

Because DBError calls the of_GetParentWindow function, a parent window is required. To let the DataStore know its parent window, you can call the of_SetParentWindow function after the DataStore creation.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

Destructor event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Destroys all existing DataStore service objects.

Usage

This event executes when the DataStore is destroyed.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

pfc_PageSetup event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Calls the pfc_PageSetupDlg event to display the Page Setup dialog box.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_PageSetupDlg event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Displays the Page Setup dialog box by calling the n_cst_platform of_PageSetupDlg function, passing the DataWindow's page display properties.

Syntax

instancename.Event **pfc_PageSetupDlg** (*attributes*)

Argument	Description
instancename	Instance name of n_ds
attributes	S_pagesetupattrib variable into which the event places page setup information. This argument is accessed through the *astr_pagesetup* argument (passed by reference)

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

This event is called by the pfc_PageSetup event.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn

How to Set Passwords

pfc_PostUpdate event (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1476')}

Description

Clears the DataStore update flags.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

You can extend this event to code additional post update processing.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

pfc_PostUpdate event (n_ds)

This example is from the of_PostUpdate function:

```
Return this.Event pfc_PostUpdate()
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

pfc_PrePageSetupDlg event (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1478')}

Description

Empty user event allowing you to modify the properties passed to the n_cst_platform of_PageSetupDlg function.

Syntax

instancename.Event **pfc_PrePageSetupDlg** (*attributes*)

Argument	Description
instancename	Instance name of n_ds
attributes	S_pagesetupattrib variable into which the event places additional page setup information. This argument is accessed through the *astr_pagesetup* argument (passed by reference)

Usage

This event is called by the pfc_PageSetupDlg event before calling the n_cst_platform of_PageSetupDlg function.

You can use this event to modify or extend the information passed in the s_pagesettupattrib structure.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

pfc_PrePageSetupDlg event (n_ds)

This example contains code you might add to the pfc_PrePageSetupDlg event:

```
// Sets page setup to portrait

astr_pagesetup.b_portraitorientation = TRUE
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

pfc_PrePrintDlg event (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1480')}
```

Description

Empty user event allowing you to modify the properties passed to the n_cst_platform of_PrintDlg function.

Syntax

instancename.Event **pfc_PrePrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of n_ds
attributes	S_printdlgattrib variable into which the event places additional printing information. This argument is accessed through the *astr_printdlg* argument (passed by reference)

Return value

None

Usage

Use this event to modify or extend the information passed in the s_printdlgattrib structure.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

pfc_PrePrintDlg event (n_ds)

This example contains code you might add to the pfc_PrePrintDlg event:

```
// Default copies to 1

astr_printdlg.l_copies = 1
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

pfc_Print event (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')}
```

Description

Calls the pfc_PrintDlg function and prints the DataStore, as specified in the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

pfc_PrintDlg event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Initializes the s_printdlgattrib structure with the DataStore's current settings, displays the Print dialog box by calling the n_cst_platform of_PrintDlg function, and resets the DataWindow's settings as specified by the user.

Syntax

instancename.Event **pfc_PrintDlg** (*attributes*)

Argument	Description
instancename	Instance name of n_ds
attributes	S_printdlgattrib variable into which the event places printing information. This argument is accessed through the *astr_printdlg* argument (passed by reference)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the pfc_Print event.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

pfc_PrintImmediate event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Prints the current DataStore without displaying the Print dialog box.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_PrintPreview event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Toggles the DataStore between preview and edit modes.

Return value

Boolean. Returns TRUE if the DataStore is placed in preview mode and FALSE if it is placed in edit mode.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

pfc_ResetUpdate event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Clears the DataStore's update flags.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The pfc_PostUpdate event calls this event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

pfc_Retrieve event (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1487')}

Description

Empty user event to contain all database retrieval logic.

Return value

Long. Returns the result of the Retrieve function.

Usage

You typically call the of_Retrieve function, which calls this event.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

pfc_Retrieve event (n_ds)

This example calls the pfc_Retrieve event:

```
ids_data = CREATE n_ds

ids_data.DataObject = "d_empall"
ids_data.of_SetTransObject(SQLCA)
IF ids_data.Event pfc_Retrieve() = -1 THEN
        SQLCA.of_Rollback()
ELSE
        SQLCA.of_Commit( )
END IF
```

This example shows the code you add to the pfc_Retrieve event to retrieve rows:

```
Return this.Retrieve( )
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

pfc_Ruler event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Toggles the DataStore between displaying and hiding rulers in print preview mode.

Return value

Boolean. Returns TRUE if print preview rulers are displayed and FALSE if they are hidden.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

pfc_Update event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Updates the DataStore. If the multitable update service is enabled, this event updates all specified tables.

Syntax

instancename.Event **pfc_Update** (*accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of n_ds
accepttext	Boolean specifying whether the DataStore control should automatically perform an AcceptText before performing the Update (TRUE) or not (FALSE)
resetflags	Boolean specifying whether the DataStore control should automatically reset the update flags (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this event to update a DataStore.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

pfc_UpdatePrep event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Empty user event to which you can add code that prepares for update.

Return value

Long. Return 1 if the update preparation succeeds and -1 to halt the update process.

Usage

The of_UpdatePrep function calls this function.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

pfc_UpdatesPending event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Determines if there are pending updates for the DataStore.

Return value

Integer. Returns 1 if there are pending updates for the DataStore and 0 if there are no pending updates.

Usage

This event is called by the of_UpdatesPending function.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

pfc_Validation event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Validates the DataStore, including checks for required fields.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Extend this event to perform DataStore-specific validation.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

pfc_Zoom event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Displays the w_zoom dialog box, allowing the user to control DataStore display while in print preview mode.

Return value

Integer. Returns the zoom level chosen by the user if the event succeeds, 0 if the user cancels out of the w_zoom dialog box, and -1 if an error occurs.

Usage

To use this event, you must enable the print preview service by calling the of_SetPrintPreview function.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project

Analyzer Features

RetrieveStart event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Determines whether PowerBuilder should append data to the end of the DataStore when retrieving.

Usage

This event executes just before the actual database retrieval. You can control whether PowerBuilder appends to the end of the DataStore when retrieving using the of_SetAppend function.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

SQLPreview event (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Description

Invokes the SQL Spy service, if enabled and controls which SQL statements are sent to the database.

Usage

This event executes just before any database access.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

n_ds

{button Events,JI(`>list_win',`id_pfcoref_1470')} {button Instance variables,JI(`>list_win',`id_pfcoref_1469')}

of_AcceptText function
of_CheckRequired function
of_GetAppend function
of_GetParentWindow function
of_IsUpdateable function
of_MessageBox function
of_PostUpdate function
of_Retrieve function
of_SetAppend function
of_SetBase function
of_SetMultiTable function
of_SetParentWindow function
of_SetPrintPreview function
of_SetReport function
of_SetTransObject function
of_SetUpdateable function
of_SetUpdateRequestor function
of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

N_ds includes precoded object functions:

- of_AcceptText
- of_CheckRequired
- of_GetAppend
- of_GetParentWindow
- of_IsUpdateable
- of_MessageBox
- of_PostUpdate
- of_Retrieve
- of_SetAppend
- of_SetBase
- of_SetMultiTable
- of_SetParentWindow
- of_SetPrintPreview
- of_SetReport
- of_SetTransObject
- of_SetUpdateable
- of_SetUpdateRequestor
- of_Update
- of_UpdatePrep
- of_UpdatesPending
- of_Validation

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_AcceptText function (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1498')}

Description

Performs an AcceptText function for the DataStore.

Access

Public

Syntax

instancename.**of_AcceptText** (*focusonerror*)

Argument	Description
instancename	Instance name of n_ds
focusonerror	Boolean indicating whether PFC sets focus to the DataStore when an error occurs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize accept text processing, extend the pfc_AcceptText event.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_AcceptText function (n_ds)

This example is from the n_cst_luw of_AcceptText function:

. . .

```
If lb_defined Then
        li_rc =  &
      lpo_tocheck.Function Dynamic of_AcceptText &
         (ab_focusonerror)
        If li_rc < 0 Then Return -1

...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_CheckRequired function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1500')}
```

Description

Determines if any of required columns contain NULL values.

Access

Public

Syntax

instancename.**of_CheckRequired** (*buffer*, *row*, *column*, *colname*, *updateonly*)

Argument	Description
instancename	Instance name of n_ds
buffer	DWBuffer enumerated data type specifying the DataStore buffer to check
row	Long specifying the first row to check and into which the function places the number of the row in error (passed by reference)
column	Integer specifying the first column to check and into which the function places the number of the column in error (passed by reference)
colname	String specifying the first column to check and into which the function places the name of the column in error (passed by reference)
updateonly	Boolean indicating whether to validate only those rows and columns that have changed (TRUE) or validate all rows and columns

Return value

Integer. Returns values as follows:

- **1** The required fields check was successful but errors were found; check the arguments for missing required fields
- **0** The required fields check was successful and no errors were found
- **-1** An error occurred

Usage

The pfc_Validation event calls this function.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_CheckRequired function (n_ds)

This example is from the n_ds pfc_Validation event:

```
...

li_rc = of_CheckRequired (primary!, ll_checkrow, &
   li_checkcolumn, ls_checkcolname, ib_updateonly)
if (li_rc < 0) or (ll_checkrow > 0) then return -1
...
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetAppend function (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1502')}

Description

Reports whether DataStore retrieves append to the end of the DataStore.

Access

Public

Syntax

instancename.**of_GetAppend** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Boolean. Returns TRUE if retrieves append to the end of the DataStore and FALSE if retrieves reset the DataStore before the retrieve.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_GetAppend function (n_ds)

This example calls the of_GetAppend function:

```
Boolean  lb_append


lb_append = ids_datasource.of_GetAppend()
...
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetParentWindow function (n_ds)

{button Object,JI(`>main',`bfcdidbb')} {button Examples,JI(`>Examples',`id_pfcoref_1504')}

Description

Retrieves a reference to the window containing this instance of n_ds.

Access

Public

Syntax

instancename.**of_GetParentWindow** (*window*)

Argument	Description
instancename	Instance name of n_ds
window	Window variable into which the function places a reference to the parent window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no parent window.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_GetParentWindow function (n_ds)

This example is from the pfc_PrintDlg event:

```
...

f_setplatform (lnv_platform, true)
this.of_GetParentWindow(lw_parent)
ll_rc = lnv_platform.of_PrintDlg(astr_printdlg,  &
   lw_parent)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_IsUpdateable function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1506')}
```

Description

Reports whether the DataStore is updatable.

Access

Public

Syntax

instancename.**of_IsUpdateable** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Boolean. Returns TRUE if the DataStore is updatable and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_IsUpdateable function (n_ds)

This example is from the pfc_UpdatesPending event:

```
...

if not of_IsUpdateable() then        return 0end if
...
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_MessageBox function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1508')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_ds
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in DataStore objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_MessageBox function (n_ds)

This example calls the of_MessageBox function:

```
of_Messagebox('ds_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_PostUpdate function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1510')}
```

Description

Calls the pfc_PostUpdate event, which clears update flags and allows you to code additional post-update processing.

Access

Public

Syntax

instancename.**of_PostUpdate** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize post-update processing, extend the pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_PostUpdate function (n_ds)

This example is from the n_cst_luw of_PostUpdate function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_PostUpdate()
```

. . .

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_Retrieve function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1512')}
```

Description

Calls the pfc_Retrieve event.

Access

Public

Syntax

instancename.**of_Retrieve** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Integer. Returns the number of rows retrieved if the function succeeds and -1 if an error occurs.

Usage

Call this function to perform DataStore retrieves. You must also code retrieve logic in the pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Retrieve function (n_ds)

This example calls the of_Retrieve function:

```
ids_data.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_SetAppend function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1514')}
```

Description

Specifies whether DataStore retrieves append to the end of the DataStore.

Access

Public

Syntax

instancename.**of_SetAppend** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean specifying whether DataStore retrieves append to the end of existing

rows (TRUE) or reset the DataStore before the retrieve (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetAppend function (n_ds)

This example calls the of_SetAppend function:

```
Integer  li_return


li_return = ids_datasource.of_SetAppend(FALSE)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_SetBase function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1516')}
```

Description

Enables or disables n_cst_dssrv, which provides basic DataStore services.

Access

Public

Syntax

instancename.**of_SetBase** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_dssrv object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to create or destroy an instance of n_cst_dssrv.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetBase function (n_ds)

This example calls the of_SetBase function:

```
Integer  li_return
```

```
li_return = ids_datastore.of_SetBase(TRUE)
IF li_return = -1 THEN
        MessageBox("DataStore", "Error with of_SetBase")
END IF
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetMultiTable function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1518')}
```

Description

Enables or disables n_cst_dssrv_multitable, which provides multitable update services.

Access

Public

Syntax

instancename.**of_SetMultiTable** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the multitable update service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dssrv_multitable.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_SetMultiTable function (n_ds)

This example calls the of_SetMultiTable function:

```
ids_data.of_SetMultiTable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_SetParentWindow function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1520')}
```

Description

Sets a reference to the parent window.

Access

Public

Syntax

instancename.**of_SetParentWindow** (*window*)

Argument	Description
instancename	Instance name of n_ds
window	Window variable containing the parent window

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Some n_ds print functionality requires a reference to a parent window.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetParentWindow function (n_ds)

This example calls the of_SetParentWindow function in a window Open event:

```
ids_data = CREATE n_ds

ids_data.DataObject = "d_empall"
ids_data.of_SetTransObject(SQLCA)
ids_data.of_SetParentWindow(this)
...
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetPrintPreview function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1522')}
```

Description

Enables or disables n_cst_dwsrv_printpreview, which provides the print preview service.

Access

Public

Syntax

instancename.**of_SetPrintPreview** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the print preview service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_printpreview.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetPrintPreview function (n_ds)

This example calls the of_SetPrintPreview function:

```
ids_data.of_SetPrintPreview(TRUE)
```

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_SetReport function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1524')}
```

Description

Enables or disables n_cst_dwsrv_report, which provides the reporting service.

Access

Public

Syntax

instancename.**of_SetReport** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the reporting service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to create or destroy an instance of n_cst_dwsrv_report.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_SetReport function (n_ds)

This example calls the of_SetReport function:

```
ids_data.of_SetReport(TRUE)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_SetTransObject function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1526')}
```

Description

Sets the Transaction object for the DataStore.

Access

Public

Syntax

instancename.**of_SetTransObject** (*transaction*)

Argument	Description
instancename	Instance name of n_ds
transaction	N_tr variable specifying the Transaction object to use for the DataStore

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_SetTransObject function (n_ds)

This example calls the of_SetTransObject function (it assumes you have associated n_tr with SQLCA in the Application painter):

```
Integer   li_return


li_return = ids_datastore.of_SetTransObject(SQLCA)
IF li_return = -1 THEN
        MessageBox("DataStore", &
       "Error with of_SetTransObject")
END IF
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_SetUpdateable function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1528')}
```

Description

Specifies whether the DataStore is updatable.

Access

Public

Syntax

instancename.**of_SetUpdateable** (*boolean*)

Argument	Description
instancename	Instance name of n_ds
boolean	Boolean indicating whether the DataStore is updatable (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to disable default save processing for DataStores that are not updatable.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetUpdateable function (n_ds)

This example calls the of_SetUpdateable function:

```
ids_data.of_SetUpdateable(FALSE)
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_SetUpdateRequestor function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1530')}
```

Description

Creates a reference to the object requesting an update within a logical unit of work.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_ds
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_SetUpdateRequestor function (n_ds)

This example is from the of_Update function:

```
...

If this.of_SetUpdateRequestor(apo_requestor) <0 Then
   Return -1
END IF
li_rc = this.of_Update(ab_accepttext, ab_resetflag)
this.of_SetUpdateRequestor(lpo_notvalid)
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_Update function (n_ds)

{button Object,JI(`>main',`bfcdidbb')}

Updates the DataStore. There are two syntaxes:

To	Use
Update data, optionally controlling update type	Syntax 1
Update data passing the requestor object	Syntax 2

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

Syntax 1 Update data, optionally controlling update type

Syntax 1 Update data, optionally controlling update type

{button Examples,JI(`>Examples',`id_pfcoref_1533')}

Description

Updates rows in the DataStore. With this syntax, you can optionally control the update types:

Insert

Update

Delete

Access

Public

Syntax

instancename.**of_Update** (*accepttext*, *resetflags* {, *insert*, *update*, *delete* })

Argument	Description
instancename	Instance name of n_ds
accepttext	Boolean indicating whether the DataStore should automatically perform an AcceptText before performing the update: TRUE—Perform AcceptText (default) FALSE—Do not perform AcceptText
resetflags	Boolean indicating whether *instancename* should automatically reset the update flags: TRUE—Reset the flags (default) FALSE—Do not reset the flags
insert (optional)	Boolean indicating whether to insert rows: TRUE—Insert rows (default) FALSE—Do not insert rows
update (optional)	Boolean indicating whether to modify changed rows: TRUE—Modify rows (default) FALSE—Do not modify rows
delete (optional)	Boolean indicating whether to delete rows: TRUE—Delete rows (default) FALSE—Do not delete rows

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update processing, extend the pfc_Update event.

For more information on update flags, see the Update function in the PowerScript Reference.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

Syntax 1 Update data, optionally controlling update type

This example calls the of_Update function:

```
Integer  li_return


li_return = ids_data.of_Update(TRUE, TRUE)
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

Syntax 2 Update data passing the requestor object

Syntax 2 Update data passing the requestor object

```
{button Examples,JI(`>Examples',`id_pfcoref_1535')}
```

Description

Updates rows in the DataStore, passing a reference to the requestor object.

Access

Public

Syntax

instancename.**of_Update** (*accepttext*, *resetflags*, *requestor*)

Argument	Description
instancename	Instance name of n_ds
accepttext	Boolean indicating whether the DataStore should automatically perform an AcceptText before performing the update: TRUE—Perform AcceptText (default) FALSE—Do not perform AcceptText
resetflags	Boolean indicating whether *instancename* should automatically reset the update flags: TRUE—Reset the flags (default) FALSE—Do not reset the flags
requestor	PowerObject containing the requestor object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

Syntax 2 Update data passing the requestor object

This example is from the n_cst_luw of_Update function:

```
...

If lb_defined Then
  li_rc = lpo_tocheck.Function Dynamic of_Update &
    (ab_accepttext,  ab_resetflag, &
      lpo_updaterequestor)
  If li_rc < 0 Then Return -1
  Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_UpdatePrep function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1537')}
```

Description

Calls the pfc_UpdatePrep event, which allows you to code additional update preparation logic.

Access

Public

Syntax

instancename.**of_UpdatePrep** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize update preparation processing, extend the pfc_UpdatePrep event.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_UpdatePrep function (n_ds)

This example is from the n_cst_luw of_UpdatePrep function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_UpdatePrep ()
  If li_rc < 0 Then Return -1
  Continue
End If
```

```
...
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_UpdatesPending function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1539')}
```

Description

Determines if there are updates pending in the DataStore.

Access

Public

Syntax

instancename.**of_UpdatesPending** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Integer. Returns values as follows:

- **1** Updates are pending
- **0** No updates pending
- **-1** An error occurred

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize pending updates processing, extend the pfc_UpdatesPending event.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_UpdatesPending function (n_ds)

This example calls the of_UpdatesPending function:

```
...

If lb_defined Then
        la_rc = lpo_tocheck.Dynamic of_UpdatesPending ()
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_Validation function (n_ds)

```
{button Object,JI(`>main',`bfcdidbb')} {button
Examples,JI(`>Examples',`id_pfcoref_1541')}
```

Description

Performs validation on the DataStore.

Access

Public

Syntax

instancename.**of_Validation** ( )

Argument	Description
instancename	Instance name of n_ds

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

N_cst_luw calls this function as part of the default save process. This function is part of the self-updating object API. To customize validation processing, extend the pfc_Validation event.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_Validation function (n_ds)

This example calls the of_Validation function:

```
...

If lb_defined Then
  li_rc =  &
    lpo_tocheck.Function Dynamic of_Validation()
...
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

n_dsa

```
{button See also,PI(`',`id_pfcoref_1543')}
```

Description

DynamicStagingArea nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder DynamicStagingArea object.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

n_dsa

n_dda

n_err

n_msg

n_tr

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

n_err

{button See also,PI(`',`id_pfcoref_1545')} {button Functions,JI(`>list_win',`id_pfcoref_1546')}

Description

Error nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEAPSRV.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder error object.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

n_err

n_dda

n_dsa

n_msg

n_tr

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

n_err

of_MessageBox function

N_err contains one precoded function:

of_MessageBox

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_MessageBox function (n_err)

{button Object,JI(`>main',`bfcbfhei')} {button Examples,JI(`>Examples',`id_pfcoref_1548')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_err
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Error objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_MessageBox function (n_err)

This example calls the of_MessageBox function:

```
of_Messagebox('err_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

n_inet

{button See also,PI(`',`id_pfcoref_1550')}

Description

Inet nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder Inet object.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

n_inet

n_cxinfo

n_cxk

n_ir

n_srv

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_ir

{button See also,PI(`',`id_pfcoref_1552')}

Description

InternetResult nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder InternetResult object.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

n_ir

n_cxinfo

n_cxk

n_inet

n_srv

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

n_ms

{button See also,PI(`',`id_pfcoref_1554')} {button Functions,JI(`>list_win',`id_pfcoref_1555')}

Description

MailSession nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder MailSession object.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

n_ms

n_ds

n_err

n_msg

n_pl

n_tr

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_ms

of_MessageBox function

N_ms contains one precoded function:

of_MessageBox

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_MessageBox function (n_ms)

{button Object,JI(`>main',`bfcdjbcg')} {button Examples,JI(`>Examples',`id_pfcoref_1557')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_ms
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information!

	• StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in MailSession objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_MessageBox function (n_ms)

This example calls the of_MessageBox function:

```
of_Messagebox('ms_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_msg

```
{button See also,PI(`',`id_pfcoref_1559')} {button
Functions,JI(`>list_win',`id_pfcoref_1561')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1560')}
```

Description

Message nonvisual user object ancestor.

Ancestry

pfc_n_msg
n_msg
Object functions

Public	of_CopyTo	Protected	of_MessageBox
Public	of_GetDoubleParm	Public	of_SetDoubleParm
Public	of_GetPowerObjectParm	Public	of_SetPowerObjectParm
Public	of_GetStringParm	Public	of_SetStringParm

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder Message object.

N_msg includes functions that provide enhanced behavior when passing numeric, string, or PowerObject values through the Message object. Call these functions to set and get values instead of accessing DoubleParm, StringParm, and PowerObjectParm directly.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

n_msg

n_ds

n_err

n_ms

n_pl

n_tr

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

n_msg

{button Functions,JI(`>list_win',`id_pfcoref_1561')}

N_msg includes instance variables:

Instance variable	Description	Data type	Access	Usage
idbl_parm	Contains passed numeric values	Double	Protected	Access with of_GetDoubleParm and of_SetDoubleParm
ipo_parm	Contains passed objects	PowerObject	Protected	Access with of_GetPowerObjectParm and of_SetPowerObjectParm
is_parm	Contains passed string values	String	Protected	Access with of_GetStringParm and of_SetStringParm

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

n_msg

{button Instance variables,JI(`>list_win',`id_pfcoref_1560')}

of_CopyTo function

of_GetDoubleParm function

of_GetPowerObjectParm function

of_GetStringParm function

of_MessageBox function

of_SetDoubleParm function

of_SetPowerObjectParm function

of_SetStringParm function

N_msg includes precoded functions:

of_CopyTo	of_MessageBox
of_GetDoubleParm	of_SetDoubleParm
of_GetPowerObjectParm	of_SetPowerObjectParm
of_GetStringParm	of_SetStringParm

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_CopyTo function (n_msg)

{button Object,JI(`>main',`bfcddbbg')} {button Examples,JI(`>Examples',`id_pfcoref_1563')}

Description

Copies the contents of the Message object to the specified Message object.

Access

Public

Syntax

instancename.**of_CopyTo** (*targetmsg*)

Argument	Description
instancename	Instance name of n_msg
targetmsg	N_msg-based Message object to which the function copies values

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to copy contents from one Message object to another. Call this function instead of simply assigning one object to another (which copies a reference, not the values).

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_CopyTo function (n_msg)

This example calls the of_CopyTo function (it assumes an imsg_back instance variable):

```
Integer  li_return


li_return = Message.of_CopyTo(imsg_back)
...
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetDoubleParm function (n_msg)

{button Object,JI(`>main',`bfcddbbg')} {button Examples,JI(`>Examples',`id_pfcoref_1565')}

Description

Retrieves the numeric value stored in the idbl_parm instance variable.

Access

Public

Syntax

instancename.**of_GetDoubleParm** ( )

Argument	Description
instancename	Instance name of n_msg

Return value

Double. Returns the idbl_parm instance variable.

Usage

Use this function in combination with of_SetDoubleParm instead of accessing Message.DoubleParm directly.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetDoubleParm function (n_msg)

This example calls the of_GetDoubleParm function:

```
Double ldbl_emp_id


ldbl_emp_id = Message.of_GetDoubleParm()
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetPowerObjectParm function (n_msg)

{button Object,JI(`>main',`bfcddbbg')} {button Examples,JI(`>Examples',`id_pfcoref_1567')}

Description

Retrieves the PowerObject value stored in the ipo_parm instance variable.

Access

Public

Syntax

instancename.**of_GetPowerObjectParm** ( )

Argument	Description
instancename	Instance name of n_msg

Return value

PowerObject. Returns the ipo_parm instance variable.

Usage

Use this function in combination with of_SetPowerObjectParm instead of accessing Message.PowerObjectParm directly.

You can use this function to access any object that descends from PowerObject.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetPowerObjectParm function (n_msg)

This example calls the of_GetPowerObjectParm function:

```
PowerObject lpo_obj

n_tr  ltr_trans

lpo_obj = Message.of_GetPowerObjectParm()
IF TypeOf.lpo_obj = n_tr THEN
   ltr_trans = lpo_obj
   dw_1.of_SetTransObject(ltr_trans)
...
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_GetStringParm function (n_msg)

```
{button Object,JI(`>main',`bfcddbbg')} {button
Examples,JI(`>Examples',`id_pfcoref_1569')}
```

Description

Retrieves the string value stored in the is_parm instance variable.

Access

Public

Syntax

instancename.**of_GetStringParm** ( )

Argument	Description
instancename	Instance name of n_msg

Return value

String. Returns the is_parm instance variable.

Usage

Use this function in combination with of_SetStringParm instead of accessing Message.StringParm directly.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_GetStringParm function (n_msg)

This example calls the of_GetStringParm function:

```
String ls_empname


ls_empname = Message.of_GetStringParm()
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_MessageBox function (n_msg)

```
{button Object,JI(`>main',`bfcddbbg')} {button
Examples,JI(`>Examples',`id_pfcoref_1571')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_msg
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!

default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Message objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_MessageBox function (n_msg)

This example calls the of_MessageBox function:

```
of_Messagebox('msg_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetDoubleParm function (n_msg)

```
{button Object,JI(`>main',`bfcddbbg')} {button
Examples,JI(`>Examples',`id_pfcoref_1573')}
```

Description

Sets the numeric value stored in the idbl_parm instance variable.

Access

Public

Syntax

instancename.**of_SetDoubleParm** (*parm*)

Argument	Description
instancename	Instance name of n_msg
parm	Double specifying the value to be saved

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function in combination with of_GetDoubleParm instead of accessing Message.DoubleParm directly.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_SetDoubleParm function (n_msg)

This example calls the of_SetDoubleParm function:

```
Double ldbl_emp_id


ldbl_emp_id = 599
Message.of_SetDoubleParm(ldbl_emp_id)
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetPowerObjectParm function (n_msg)

```
{button Object,JI(`>main',`bfcddbbg')} {button
Examples,JI(`>Examples',`id_pfcoref_1575')}
```

Description

Sets the PowerObject value stored in the ipo_parm instance variable.

Access

Public

Syntax

instancename.**of_SetPowerObjectParm** (*parm*)

Argument	Description
instancename	Instance name of n_msg
parm	PowerObject containing the instance to be saved

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function in combination with of_GetPowerObjectParm instead of accessing Message.PowerObjectParm directly.

You can use this function for any object that descends from PowerObject.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SetPowerObjectParm function (n_msg)

This example calls the of_SetPowerObjectParm function:

```
PowerObject lpo_obj


n_tr  ltr_trans

lpo_obj = n_tr
Message.of_SetPowerObjectParm(lpo_obj)
Open(w_deptinfo)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetStringParm function (n_msg)

```
{button Object,JI(`>main',`bfcddbbg')} {button
Examples,JI(`>Examples',`id_pfcoref_1577')}
```

Description

Sets the string value stored in the is_parm instance variable.

Access

Public

Syntax

instancename.**of_SetStringParm** (*parm*)

Argument	Description
instancename	Instance name of n_msg
parm	String specifying the value to be saved

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function in combination with of_GetStringParm instead of accessing Message.StringParm directly.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetStringParm function (n_msg)

This example calls the of_SetStringParm function:

```
Message.of_SetStringParm("w_products")

of_SendMessage("pfc_Open")
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

n_oo

```
{button See also,PI(`',`id_pfcoref_1579')}
```

Description

OLEObject nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder OLEObject object.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

n_oo

n_ostg

n_ostm

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

n_ostg

{button See also,PI(`',`id_pfcoref_1581')}

Description

OLEStorage nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder OLEStorage object.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

n_ostg

n_oo

n_ostm

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_ostm

{button See also,PI(`',`id_pfcoref_1583')}

Description

OLEStream nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder OLEStream object.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

n_ostm

n_oo

n_ostg

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_pl

{button See also,PI(`',`id_pfcoref_1585')} {button Functions,JI(`>list_win',`id_pfcoref_1586')}

Description

Pipeline nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder pipeline object.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

n_pl

n_ds

n_err

n_ms

n_msg

n_tr

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

n_pl

of_MessageBox function

N_pl contains one precoded function:

of_MessageBox

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_MessageBox function (n_pl)

{button Object,JI(`>main',`bfcdjicc')} {button Examples,JI(`>Examples',`id_pfcoref_1588')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_pl
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign!

- Exclamation!
- Question!
- None!

button Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Pipeline objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_MessageBox function (n_pl)

This example calls the of_MessageBox function:

```
of_Messagebox('pl_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

n_srv

```
{button See also,PI(`',`id_pfcoref_1590')}
```

Description

Service nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder Service object. The Service object is used in implementing extensions to the PowerBuilder context feature.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_srv

n_cxinfo

n_cxk

n_inet

n_ir

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

n_tmg

{button See also,PI(`',`id_pfcoref_1592')} {button Functions,JI(`>list_win',`id_pfcoref_1594')} {button Instance variables,JI(`>list_win',`id_pfcoref_1593')}

Description

Timing nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

n_cst_tmgmultiple

n_cst_tmgsingle

Usage

Use this nonvisual object instead of the standard PowerBuilder Timing object.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

n_tmg

n_tr

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

n_tmg

{button Functions,JI(`>list_win',`id_pfcoref_1594')}

N_tmg includes instance variables:

Instance variable	Description	Data type	Access	Usage
inv_multiple	Reference variable for multiple notify service	N_cst_tmgmultiple	Public	Call of_SetMultiple to enable
inv_single	Reference variable for single notify service	N_cst_tmgsingle	Public	Call of_SetSingle to enable

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

n_tmg

{button Instance variables,JI(`>list_win',`id_pfcoref_1593')}

of_SetMultiple function

of_SetSingle function

N_tmg includes precoded object functions:

of_SetMultiple

of_SetSingle

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetMultiple function (n_tmg)

{button Object,JI(`>main',`bfcbgdaf')} {button Examples,JI(`>Examples',`id_pfcoref_1596')}

Description

Enables or disables n_cst_tmgmultiple, which provides the multiple notify service.

Access

Public

Syntax

instancename.**of_SetMultiple** (*boolean*)

Argument	Description
instancename	Instance name of n_tmg
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_tmgmultiple object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You cannot use both n_cst_tmgsingle and n_cst_tmgmultiple at the same time.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_SetMultiple function (n_tmg)

This example calls the of_SetMultiple function:

```
Integer  li_return


li_return = itmg_timer.of_SetMultiple(TRUE)
IF li_return = -1 THEN
        MessageBox("Timer", "Error with of_SetMultiple")
END IF
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetSingle function (n_tmg)

```
{button Object,JI(`>main',`bfcbgdaf')} {button
Examples,JI(`>Examples',`id_pfcoref_1598')}
```

Description

Enables or disables n_cst_tmgsingle, which provides the single notify service.

Access

Public

Syntax

instancename.**of_SetSingle** (*boolean*)

Argument	Description
instancename	Instance name of n_tmg
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) an instance of the n_cst_tmgsingle object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You cannot use both n_cst_tmgsingle and n_cst_tmgmultiple at the same time.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetSingle function (n_tmg)

This example calls the of_SetSingle function:

```
Integer  li_return


li_return = itmg_timer.of_SetSingle(TRUE)
IF li_return = -1 THEN
        MessageBox("Timer", "Error with of_SetSingle")
END IF
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

n_tr

```
{button See also,PI(`',`id_pfcoref_1600')} {button
Functions,JI(`>list_win',`id_pfcoref_1604')} {button
Events,JI(`>list_win',`id_pfcoref_1602')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1601')}
```

Description

Transaction object for use with all PFC applications. You can use this object as is, or create DBMS- or application-specific descendants that include customized or extended functionality.

N_tr includes integration with the SQL Spy debugging service.

For more information on using SQL Spy, see the PFC User's Guide.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Object relationships

n_cst_trregistration

Usage

Use n_tr functions instead of native SQL transaction management statements. For example, to connect to the database, use of_Connect instead of the CONNECT statement.

To register an n_tr-based Transaction object with the transaction registration service, call the

n_cst_trregistration of_Register function.To use n_tr:

1 If the Transaction object is not SQLCA, create it:

```
// Assumes an itr_security instance variable

itr_security = CREATE n_tr
```

2 (Optional) If you are using the transaction registration service:

- Register all Transaction objects:

```
gnv_app.inv_trregistration.of_Register(SQLCA)

// Assumes an itr_security instance variable
gnv_app.inv_trregistration.of_Register &
                (itr_security)
```

- Establish a transaction name for use with the transaction registration service:

```
// Assumes an itr_security instance variable

SQLCA.of_SetName("SQLCA")
itr_security.of_SetName("Security")
```

3 Initialize the ib_autorollback instance variable, which specifies what to do if the application closes (or the object is otherwise destroyed) while the transaction is still connected:

```
SQLCA.of_SetAutoRollback(TRUE)

itr_security.of_SetAutoRollback(FALSE)
```

4 Call n_tr functions as needed.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_tr

n_cst_trregistration

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

n_tr

{button Functions,JI(`>list_win',`id_pfcoref_1604')} {button Events,JI(`>list_win',`id_pfcoref_1602')}

N_tr includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autorollback	Specifies whether the Destructor event issues a COMMIT or a ROLLBACK if the transaction is still connected	Boolean	Protected	The Destructor event uses this event to determine whether to call of_Commit or of_Rollback: • TRUE — Call of_Rollback • FALSE (default) — Call of_Commit Set with of_SetAutoRollback. This controls how n_tr handles transactions if the application

			closes (or the object is otherwise destroyed) while the transaction is still connected
ib_trace	Specifies whether trace is enabled	Boolean	Protected	Call of_GetTrace to access this value (default is FALSE)
is_name	A name used to identify the transaction	String	Protected	You can reuse transactions between windows by passing this value (using OpenWithParm) when opening a new window. The new window can use the passed value with the n_cst_trregistration of_GetByName function to access the Transaction object Call of_GetName and of_SetName to access this value

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

n_tr

{button Functions,JI(`>list_win',`id_pfcoref_1604')} {button Instance variables,JI(`>list_win',`id_pfcoref_1601')}

Destructor event

N_tr includes a precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

Destructor event (n_tr)

{button Object,JI(`>main',`bfcdfjgb')}

Description

If the instance is still connected to a database, this event commits or rolls back the transaction, depending on the ib_autorollback instance variable. It then disconnects the transaction.

Usage

This event's functionality is meant to ensure efficient use of system resources. However, it's best to commit, rollback, and disconnect explicitly using this object's of_Commit, of_Rollback, and of_Disconnect functions.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

n_tr

{button Events,JI(`>list_win',`id_pfcoref_1602')} {button Instance variables,JI(`>list_win',`id_pfcoref_1601')}

of_Begin function

of_Commit function

of_Connect function

of_CopyTo function

of_Disconnect function

of_DistinctValues function

of_End function
of_Execute function
of_GetAutoRollback function
of_GetName function
of_GetSqlState function
of_GetTrace function
of_Init function
of_IsConnected function
of_MessageBox function
of_Rollback function
of_SetAutoRollback function
__of_SetLogidAndPassword__function
of_SetName function
of_SetTrace function
__of_SetUser__function
__of_SetUserIdAndPassword__function

N_tr includes precoded object functions:

of_Begin
of_Commit
of_Connect
of_CopyTo
of_Disconnect
of_DistinctValues
of_End
of_Execute
of_GetAutoRollback
of_GetName
of_GetSqlState
of_GetTrace
of_Init
of_IsConnected
of_MessageBox
of_Rollback
of_SetAutoRollback
of_SetLogidAndPassword
of_SetName
of_SetTrace
of_SetUser
of_SetUserIdAndPassword

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Begin function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')}

Description

Empty function into which you can code DBMS-specific BEGIN TRANSACTION statements in n_tr descendants.

Access

Public

Syntax

instancename.**of_Begin** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Always returns -1. Add DBMS-specific returns values in your n_tr descendant.

Usage

Call this function to begin a database transaction.

You should connect to the database before issuing this function. Use of_Connect to connect to the database.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Commit function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')} {button Examples,JI(`>Examples',`id_pfcoref_1607')}

Description

Issues a COMMIT statement.

Access

Public

Syntax

instancename.**of_Commit** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Returns the SQLCODE value from the COMMIT statement.

Usage

Call this function instead of the COMMIT statement to make any changes to the database permanent and end a logical unit of work.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Commit function (n_tr)

This example calls the of_Commit function:

```
IF dw_sheet.Update( ) = -1 THEN

        itr_trans.of_Rollback( )
        MessageBox("Update", "Update failed")
ELSE
        itr_trans.of_Commit( )
        gnv_app.of_GetFrame( ).SetMicroHelp &
       ("Update succeeded")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_Connect function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1609')}
```

Description

Connects to the database.

Access

Public

Syntax

instancename.**of_Connect** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Returns the SQLCODE value from the CONNECT statement.

Usage

Call this function instead of the CONNECT statement to connect the transaction to the database.

You must initialize the Transaction object before calling this function. The fields initialized vary, depending on your DBMS. You can call the of_Init function to initialize the Transaction object.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_Connect function (n_tr)

This example initializes itr_security fields and connects to the database:

```
String  ls_dbms, ls_database, ls_logid, ls_logpass

String  ls_servername
Long    ll_return

itr_security.DBMS = "Syb"
itr_security.Database = "agora"
itr_security.LogID = "williamk"
itr_security.LogPass = "billpass"
itr_security.ServerName = "MUSTANG"

ll_return = itr_security.of_Connect()
IF ll_return <> 0 THEN
        MessageBox("Connect", "Connect error")
END IF
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_CopyTo function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1611')}
```

Description

Copies the contents of the Transaction object to the specified Transaction object.

Access

Public

Syntax

instancename.**of_CopyTo** (*targettrans*)

Argument	Description
instancename	Instance name of n_tr
targettrans	N_tr-based Transaction object to which the function copies values

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to copy contents from one Transaction object to another. Call this function instead of simply assigning one object to another (which copies a reference, not the values).

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_CopyTo function (n_tr)

This example calls the of_CopyTo function (it assumes an itr_back instance variable):

```
Integer  li_return


li_return = SQLCA.of_CopyTo(itr_back)
...
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_Disconnect function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1613')}
```

Description

Disconnects from the database.

Access

Public

Syntax

instancename.**of_Disconnect** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Returns the SQLCODE value from the DISCONNECT statement.

Usage

Call this function instead of the DISCONNECT statement to disconnect the transaction from the database.

Be sure to check the return value to ensure that the function succeeded.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_Disconnect function (n_tr)

This example disconnects from the database:

```
Long  ll_return


ll_return = itr_security.of_Disconnect()
IF ll_return <> 0 THEN
        MessageBox("Disconnect", "Disconnect error")
END IF
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_DistinctValues function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1615')}
```

Description

Retrieves distinct values for the specified database column.

Access

Public

Syntax

instancename.**of_DistinctValues** (*table*, *column*, *values*)

Argument	Description
instancename	Instance name of n_tr
table	String specifying the database table
column	String specifying the column for which the function returns distinct values
values	Unbounded string array into which the function places distinct values for *column*

Return value

Long. Returns the number of elements in the *values* array.

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_DistinctValues function (n_tr)

This calls the of_DistinctValues function:

```
Long  ll_return

String  ls_values[ ]

ll_return = SQLCA.of_DistinctValues &
        ("employee", "dept_id", ls_values)
...
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_End function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')}

Description

Empty function into which you can code DBMS-specific END TRANSACTION statements in n_tr descendants.

Access

Public

Syntax

instancename.**of_End** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Always returns -1. Add DBMS-specific returns values in your n_tr descendant.

Usage

Call this function to end a database transaction.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_Execute function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')} {button Examples,JI(`>Examples',`id_pfcoref_1618')}

Description

Executes a specified SQL statement.

Access

Public

Syntax

instancename.**of_Execute** (*sqlstatement*)

Argument	Description
instancename	Instance name of n_tr
sqlstatement	String containing the SQL statement to execute

Return value

Long. Returns the SQLCODE returned by the EXECUTE IMMEDIATE statement. A value of -10 indicates

that there is no database connection.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_Execute function (n_tr)

This example calls the of_Execute function:

```
Long  ll_return

String  ls_sql

ls_sql = "DELETE from employee WHERE dept_id = 100"
ll_return = SQLCA.of_Execute(ls_sql)
...
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetAutoRollback function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1620')}
```

Description

Reports whether autorollback is enabled.

Access

Public

Syntax

instancename.**of_GetAutoRollback** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Boolean. Returns TRUE if autorollback is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetAutoRollback function (n_tr)

This example calls the of_GetAutoRollback function:

```
IF SQLCA.of_GetAutoRollback() THEN

        MessageBox("Transaction", &
      "Autorollback is enabled")
ELSE
        MessageBox("Transaction", &
       "Autorollback is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_GetName function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1622')}
```

Description

Retrieves the transaction name, as specified by the of_SetName function.

Access

Public

Syntax

instancename.**of_GetName** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

String. Returns the transaction name.

Usage

N_cst_trregistration functions call this function to access the Transaction object name.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_GetName function (n_tr)

This example is from the n_cst_trregistration of_GetByName function:

```
...

FOR li_cnt = 1 to li_upperbound
  IF istr_trans[li_cnt].b_used AND &
    IsValid (istr_trans[li_cnt].tr_object) THEN
      ls_name = &
        istr_trans[li_cnt].tr_object.of_GetName()
        IF ls_name = as_name THEN
          atr_obj = istr_trans[li_cnt].tr_object
          lb_found = TRUE
          EXIT
        END IF
  END IF
NEXT
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetSqlState function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1624')}
```

Description

Retrieves the SQL state string returned by the DBMS.

Access

Public

Syntax

instancename.**of_GetSqlState** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

String. Returns the SQL state string returned by the DBMS.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetSqlState function (n_tr)

This example calls the of_GetSqlState function:

```
String  ls_sqlstate


ls_sqlstate = SQLCA.of_GetSqlState()
MessageBox("SQL State", &
        "SQL state is: " + ls_sqlstate)
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_GetTrace function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1626')}
```

Description

Reports whether the PowerBuilder DBMS trace is enabled.

Access

Public

Syntax

instancename.**of_GetTrace** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Boolean. Returns TRUE if trace is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetTrace function (n_tr)

This example calls the of_GetTrace function:

```
IF SQLCA.of_GetTrace() THEN

        MessageBox("Transaction", "Trace is enabled")
ELSE
        MessageBox("Transaction", "Trace is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_Init function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1628')}
```

Description

Initializes the n_tr-based Transaction object with the passed values.

Access

Public

Syntax

instancename.**of_Init** (*fileorkey*, *section*)

Argument	Description
instancename	Instance name of n_tr
fileorkey	String specifying the name of the ini file or registry key containing connection information. If you specify an INI file, you must also specify *section*
section	String specifying the INI file section containing connection information. If *fileorkey* specifies a registry key, you cannot specify this value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to initialize n_tr before connecting to the database. The INI-file section or registry key must include the following keywords (with DBMS-specific values as appropriate):

DBMS

Database

LogID

LogPass

ServerName

UserID

DatabasePassword

Lock

DbParm

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_Init function (n_tr)

This example calls the of_Init function:

```
String  ls_file, ls_section

Long    ll_return

ls_file = "c:\pbapp\pbapp.ini"
ls_section = "securityDB"

itr_security.of_Init &
        (ls_file, ls_section)
ll_return = itr_security.of_Connect()
IF ll_return <> 0 THEN
        MessageBox("Connect", "Connect error")
END IF
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_IsConnected function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1630')}
```

Description

Determines whether the n_tr instance is connected to a database.

Access

Public

Syntax

instancename.**of_IsConnected** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Boolean. Returns TRUE if the n_tr instance is connected to a database and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_IsConnected function (n_tr)

This example calls the of_IsConnected function:

```
Long  ll_return


IF NOT itr_security.of_IsConnected() THEN
        ll_return = itr_security.of_Connect( )
        IF ll_return <> 0 THEN
       MessageBox("Connect", "Connect error")
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_MessageBox function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1632')}
```

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_tr
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Transaction objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_MessageBox function (n_tr)

This example calls the of_MessageBox function:

```
of_Messagebox('tr_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_Rollback function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')} {button Examples,JI(`>Examples',`id_pfcoref_1634')}

Description

Rolls back the database transaction.

Access

Public

Syntax

instancename.**of_Rollback** ( )

Argument	Description
instancename	Instance name of n_tr

Return value

Long. Returns 0 if the function succeeds, -10 if the transaction is not connected and any other nonzero value if an error occurs.

Usage

Call this function instead of the ROLLBACK statement to reverse all uncommitted changes.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_Rollback function (n_tr)

This example calls the of_Rollback function:

```
IF dw_sheet.Update() = -1 THEN

        itr_trans.of_Rollback()
        MessageBox("Update", "Update failed")
ELSE
        itr_trans.of_Commit()
        gnv_app.of_GetFrame().SetMicroHelp &
       ("Update succeeded")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetAutoRollback function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1636')}
```

Description

Controls whether autorollback is enabled.

If autorollback is enabled, the n_tr Destructor event issues a ROLLBACK for a connected transaction. If autorollback is disabled, the n_tr Destructor event issues a COMMIT.

Access

Public

Syntax

instancename.**of_SetAutoRollback** (*boolean*)

Argument	Description
instancename	Instance name of n_tr
boolean	Boolean indicating whether autorollback is enabled (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_SetAutoRollback function (n_tr)

This example calls the of_SetAutoRollback function:

```
SQLCA.of_SetAutoRollback(TRUE)
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_SetLogidAndPassword function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button See also,PI(`',`id_pfcoref_1638')}
```

Description

Sets the property values of the Transaction object for LogID and LogPass.

Access

Public

Syntax

instancename.**of_SetLogidAndPassword** (*loginid* , *logpassword*)

Argument	Description
instancename	Instance name of n_tr
loginid	String specifying the name of the login ID
logpassword	String specifying the name of the login password

Return value

None

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_SetLogidAndPassword function (n_tr)

of_Init

of_SetUser

of_SetUserIdAndPassword

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetName function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')} {button Examples,JI(`>Examples',`id_pfcoref_1640')}

Description

Specifies the transaction name, which is used by the transaction registration service.

Access

Public

Syntax

instancename.**of_SetName** (*name*)

Argument	Description
instancename	Instance name of n_tr
name	String specifying a name for the transaction

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify a transaction name when you are using the transaction registration service.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_SetName function (n_tr)

This example calls the of_SetName function:

```
SQLCA.of_SetName("SQLCA")

itr_security.of_SetName("Security")
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetTrace function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1642')}
```

Description

Specifies whether the PowerBuilder DBMS trace is enabled.

Access

Public

Syntax

instancename.**of_SetTrace** (*boolean*)

Argument	Description
instancename	Instance name of n_tr
boolean	Boolean specifying whether trace is enabled (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds, 0 if trace is already in the specified state, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetTrace function (n_tr)

This example calls the of_SetTrace function to enable trace:

```
SQLCA.of_SetTrace(TRUE)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_SetUser function (n_tr)

```
{button Object,JI(`>main',`bfcdfjgb')} {button
Examples,JI(`>Examples',`id_pfcoref_1644')} {button See
also,PI(`',`id_pfcoref_1645')}
```

Description

Specifies the DBMS user ID and password (DBPass).

Access

Public

Syntax

instancename.**of_SetUser** (*userid*, *password*)

Argument	Description
instancename	Instance name of n_tr
userid	String specifying the user ID (Transaction object UserID property)
password	String specifying the password (Transaction object DBPass property)

Return value

None

Usage

Use this function for ODBC database connections. For native connections, use of_SetLogidAndPassword or of_SetUserIdAndPassword, depending on the DBMS.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetUser function (n_tr)

This example, which is from an n_cst_appmanager pfc_Logon event, calls the of_SetUser function:

```
SQLCA.of_SetUser(as_userid, as_password)

IF SQLCA.of_Connect() >= 0 THEN
        Return 1
ELSE
        MessageBox (iapp_object.DisplayName, &
       "Connect failed")
        Return -1
END IF
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_SetUser function (n_tr)

of_SetLogidAndPassword

of_SetUserIdAndPassword

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetUserIdAndPassword function (n_tr)

{button Object,JI(`>main',`bfcdfjgb')} {button See also,PI(`',`id_pfcoref_1647')}

Description

Sets the property values of the Transaction object for UserID and DBPass.

Access

Public

Syntax

instancename.**of_SetUserIDAndPassword** (*userid* , *password*)

Argument	Description
instancename	Instance name of n_tr
userid	String specifying the name of the user's login ID
password	String specifying the name of the user's login password

Return value

None

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetUserIdAndPassword function (n_tr)

of_Init

of_SetLogidAndPassword

of_SetUser

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

n_trp

{button See also,PI(`',`id_pfcoref_1649')} {button Functions,JI(`>list_win',`id_pfcoref_1650')}

Description

Transport nonvisual user object ancestor.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

Use this nonvisual object instead of the standard PowerBuilder Transport object.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

n_trp

n_cn

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

n_trp

of_MessageBox function

N_trp contains one precoded function:

of_MessageBox

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_MessageBox function (n_trp)

{button Object,JI(`>main',`cbbdfgjf')} {button Examples,JI(`>Examples',`id_pfcoref_1652')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_trp
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! • StopSign! • Exclamation! • Question! • None!
button	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default	Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in Transport objects.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_MessageBox function (n_trp)

This example calls the of_MessageBox function:

```
of_Messagebox('trp_dberror','Save', &
```

```
    as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

Custom Class User Objects

About this chapter

This chapter describes the custom class user objects in PFC.

Contents

The user objects are listed in alphabetical order. Each object's discussion includes an alphabetical listing of instance variables, events, and object functions.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

n_base

{button See also,PI(`',`id_pfcoref_1656')} {button Functions,JI(`>list_win',`id_pfcoref_1658')} {button Instance variables,JI(`>list_win',`id_pfcoref_1657')} {button Descendants,JI(`>list_win',`id_pfcoref_1655')}

Description

Ancestor object for all PFC custom class user objects.

Ancestry

Library

PFCMAIN.PBL

PFEMAIN.PBL

Usage

PFC uses this object as the ancestor for all custom class user objects.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

n_base

All PFC custom class user objects descend from n_base.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

n_base

u_base

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

n_base

{button Functions,JI(`>list_win',`id_pfcoref_1658')}

N_base includes instance variables:

Instance variable	Description	Data type	Access	Usage
CONTINUE_ACTION	Constant set to 1	Integer	Public	Internal
FAILURE	Constant set to -1	Integer	Public	Internal
NO_ACTION	Constant set to 0	Integer	Public	Internal
PREVENT_ACTION	Constant set to 0	Integer	Public	Internal
SUCCESS	Constant set to 1	Integer	Public	Internal

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

n_base

{button Instance variables,JI(`>list_win',`id_pfcoref_1657')}

of_MessageBox function

N_base includes a precoded function:

of_MessageBox

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_MessageBox function (n_base)

{button Object,JI(`>main',`cbbbdaij')} {button Examples,JI(`>Examples',`id_pfcoref_1660')}

Description

Displays a MessageBox.

Access

Protected

Syntax

instancename.**of_MessageBox** (*id*, *title*, *message*, *icon*, *button*, *default*)

Argument	Description
instancename	Instance name of n_base
id	String specifying an ID for the message
title	String specifying the title of the MessageBox
message	String specifying the message text
icon	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are:

- Information!
- StopSign!
- Exclamation!
- Question!
- None!

button Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are:

- OK!
- OKCancel!
- YesNo!
- YesNoCancel!
- RetryCancel!
- AbortRetryIgnore!

default Integer specifying the number of the button you want to be the default button

Return value

Integer. Returns 1 if the function succeeds -1 if an error occurs.

Usage

Override this function to control MessageBox behavior in PFC custom class user objects. You can either override this function in n_base (which affects all PFC custom class user objects) or override it in the extension level of an individual custom class user object.

The *id* argument is not used in the default implementation.

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_MessageBox function (n_base)

This example is from the n_cst_luw of_DBError function:

```
of_Messagebox('pfc_luw_dberror','Save', &

   as_error, StopSign!, Ok!, 1)
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

n_cst_appmanager

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1662')}
{button Functions,JI(`>list_win',`id_pfcoref_1691')} {button
Events,JI(`>list_win',`id_pfcoref_1664')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1663')}
```

Description

N_cst_appmanager is the application manager and functions as a substitute for the Application object. It contains many useful functions as well as reference variables for application services.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_apppreference

n_cst_debug

n_cst_dwcache

n_cst_error

n_cst_mru

n_cst_security

n_cst_trregistration

w_about

w_frame

w_logon

w_splash

Usage To use n_cst_appmanager:

1 (Optional) Access the extension-level n_cst_appmanager user object and create a descendant

application manager.

2 Define a global variable, gnv_app, of type n_cst_appmanager (or your customized descendant).

```
n_cst_appmanager    gnv_app
```

3 Add PowerScript code to your application's Open event to create an instance of n_cst_appmanager and call the pfc_Open event, passing the commandline argument:

```
gnv_app = CREATE n_cst_appmanager

gnv_app.Event pfc_Open(commandline)
```

4 Add PowerScript code to the Constructor event to selectively enable application services:

Preference service—of_SetAppPreference

Debug service—of_SetDebug

DataWindow caching service—of_SetDwCache

Most recently used object service—of_SetMRU

Error handling service—of_SetError

Transaction registration service—of_SetTrRegistration

Security service—of_SetSecurity

5 Add PowerScript code to the pfc_Open event to open the initial window.

6 Add code to the Constructor event in n_cst_appmanager (or your customized descendant) to initialize instance variables for version, company, and INI file.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

n_cst_appmanager

n_cst_apppreference

n_cst_debug

n_cst_dwcache

n_cst_error

n_cst_mru

n_cst_security

n_cst_trregistration

Created with the Personal Edition of HelpNDoc: Easily create Help documents

n_cst_appmanager

{button Functions,JI(`>list_win',`id_pfcoref_1691')} {button Events,JI(`>list_win',`id_pfcoref_1664')}

N_cst_appmanager includes instance variables:

Instance variable	Description	Data type	Access	Usage
iapp_object	Application object associated with n_cst_appmanager	Application	Public	Use to access application attributes
ib_microhelp	Reports whether the application supports	Boolean	Protected	Call of_GetMicrohelp and of_SetMicrohelp to

	MicroHelp			access
ienv_object	The Environment object, which contains information such as screen height, screen width, and operating system	Environment	Public	Use instead of repeated calls to the GetEnvironment function
inv_appref	Reference variable for the preference service	n_cst_apppreference	Public	Use in dot notation to access n_cst_apppreference functions
inv_debug	Reference variable for the debug service	n_cst_debug	Public	Use in dot notation to access n_cst_debug functions
inv_dwcache	Reference variable for data caching services	n_cst_dwcache	Public	Use in dot notation to access n_cst_dwcache functions
inv_error	Reference variable for the error service	n_cst_error	Public	Use in dot notation to access n_cst_error functions
inv_mru	Reference variable for the most recently used object service	n_cst_mru	Public	Use in dot notation to access n_cst_mru functions
inv_security	Reference variable for the security service	n_cst_security	Public	Use in dot notation to access n_cst_security functions
inv_trregistration	Reference variable for the transaction registration service	n_cst_trregistration	Public	Use in dot notation to access n_cst_trregistration functions
is_appinifile	The name of the application INI file	String	Protected	Use in profile functions (such as ProfileString) to specify the name of the application INI file (typically includes database connection profile) Call of_GetAppIniFile and of_SetAppIniFile to access
is_appkey	The name of the registry key for application information	String	Protected	Use in PowerScript functions (such as RegistryGet) to specify the name of the application's registry key (typically includes database connection profile) Call of_GetAppKey and of_SetAppKey to access
is_copyright	Application-specific copyright information	String	Protected	Call of_GetCopyright and of_SetCopyright to access The w_about window displays this variable automatically
is_helpfile	The name of the application's Help file	String	Protected	Use in the ShowHelp function Call of_GetHelpFile and of_SetHelpFile access
is_logo	The name of the image displayed in the application's About box	String	Protected	Call of_GetLogo and of_SetLogo to access
is_userid	User information	String	Protected	Call of_GetUserID and

				of_SetUserID to access
is_userinifile	The name of the user INI file	String	Protected	Use in profile functions (such as ProfileString) to access information in the user INI file (typically contains user-specific information, such as toolbar settings and window position) Call of_GetUserIniFile and of_SetUserIniFile to access
is_userkey	The name of the registry key for user information	String	Protected	User information (typically includes toolbar settings and window position) Call of_GetUserKey and of_SetUserKey to access
is_version	Application-specific version information	String	Protected	Call of_GetVersion and of_SetVersion to access The w_about window displays this variable automatically
iw_frame	Frame window	w_frame	Protected	Use to get the active frame window This is set automatically in the w_frame Activate event Call of_GetFrame to access

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

n_cst_appmanager

{button Functions,JI(`>list_win',`id_pfcoref_1691')} {button Instance variables,JI(`>list_win',`id_pfcoref_1663')}

Constructor event

Destructor event

pfc_Close event

pfc_ConnectionBegin event

pfc_ConnectionEnd event

pfc_Exit event

pfc_Idle event

pfc_Logon event

pfc_Open event

pfc_PreAbout event

pfc_PreLogonDlg event

pfc_PreSplash event

pfc_SystemError event

N_cst_appmanager includes precoded events:

Constructor	pfc_Logon

Destructor
pfc_Close
pfc_ConnectionBegin
pfc_ConnectionEnd
pfc_Exit
pfc_Idle
pfc_Open
pfc_PreAbout
pfc_PreLogonDlg
pfc_PreSplash
pfc_SystemError

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

Constructor event (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1666')}

Description

Initializes the iapp_object and ienv_object instance variables.

Usage

Initialize application-wide instance variables in this event. Depending on your application's needs, you initialize the following:

Instance variable	Initialization function
is_appinifile	of_SetAppIniFile
is_appkey	of_SetAppKey
is_appinifile	of_SetAppIniFile
is_helpfile	of_SetHelpFile
is_userinifile	of_SetUserIniFile
is_userkey	of_SetUserKey
is_version	of_SetVersion

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

Constructor event (n_cst_appmanager)

This example initializes selected instance variables:

```
of_SetAppIniFile("c:\eis\eisapp.ini")

of_SetUserIniFile("c:\eis\eisuser.ini")
of_SetHelpFile("c:\eis\eis.hlp")
of_SetVersion("1.1")
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

Destructor event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1668')}
```

Description

Destroys the service objects associated with an instance of n_cst_appmanager.

Usage

Use this event to destroy any other user objects associated with n_cst_appmanager.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

Destructor event (n_cst_appmanager)

This example checks for the existence of the inv_app_logic custom class user object and destroys it if an instance exists:

```
IF IsValid(gnv_app.inv_app_logic) THEN

        DESTROY gnv_app.inv_app_logic
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

pfc_Close event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1670')}
```

Description

Application manager Close event.

Usage

To use this event:

1 Call pfc_Close from the application object's Close event.

2 Add application close logic to pfc_Close.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

pfc_Close event (n_cst_appmanager)

This example disconnects from the database:

```
Integer   li_return


IF IsValid itr_app_trans THEN
        li_return = itr_app_trans.of_Disconnect()
        IF li_return <> 0 THEN
       MessageBox("Disconnect Error", &
          itr_app_trans.SqlErrText)
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

pfc_ConnectionBegin event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1672')}
```

Description

Application manager ConnectionBegin event. The ConnectionBegin event is triggered by a distributed application when a client application attempts to establish a connection to a server application. This event is triggered only in a server application running in a distributed computing environment.

Syntax

instancename.EVENT **pfc_ConnectionBegin** (*userid*, *password*, *connectstring*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
userid	String specifying the user ID. From within the pfc_ConnectionBegin event, access this value through the *as_userid* argument
password	String specifying the password. From within the pfc_ConnectionBegin event, access this value through the *as_password* argument
connectstring	String containing the connectstring. From within the pfc_ConnectionBegin event, access this value through the *as_connectstring* argument

Return value

ConnectPrivilege. Returns one of the following:

ConnectPrivilege!

ConnectWithAdminPrivilege!

NoConnectPrivilege!

Usage

To use this event:

1. Call pfc_ConnectionBegin from the application object's ConnectionBegin event, passing the *userid*, *password*, and *connectstring* arguments.
2. Add connection logic to pfc_ConnectionBegin, returning the appropriate connect privilege.
3. In the application object's ConnectionBegin event, return the connect privilege.

For more information on distributed computing, see Application Techniques.

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

pfc_ConnectionBegin event (n_cst_appmanager)

This example returns the client's connection privilege:

```
CHOOSE CASE as_userid

         CASE "adm"
        Return ConnectWithAdminPrivilege!
         CASE "ctl","mmw","jdb"
        Return ConnectPrivilege!
         CASE ELSE
        Return NoConnectPrivilege!
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

pfc_ConnectionEnd event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1674')}
```

Description

Application manager ConnectionEnd event. The ConnectionEnd event is triggered by a distributed application when a client application's connection is terminated. This event is triggered only in a server application running in a distributed computing environment.

Usage

To use this event:

1 Call pfc_ConnectionEnd from the application object's ConnectionEnd event.

2 Add logic to pfc_ConnectionEnd.

For more information on distributed PowerBuilder, see Application Techniques.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

pfc_ConnectionEnd event (n_cst_appmanager)

This example disconnects from the database:

```
Integer   li_return


IF IsValid itr_app_trans THEN
        li_return = itr_app_trans.of_Disconnect()
END IF
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

pfc_Exit event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1676')}
```

Description

Event to close the frame window, shutting down the application.

Usage

Add code to this event to perform the appropriate end-of-application processing (for example, closing the frame window.)

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

pfc_Exit event (n_cst_appmanager)

This example closes the frame window:

```
w_frame    lw_frame


lw_frame = of_GetFrame()
Close(lw_frame)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

pfc_Idle event (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1678')}

Description

Application manager Idle event.

Usage

To use this event:

1 Call pfc_Idle from the application object's Idle event.

2 Add application idle logic to pfc_Idle.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_Idle event (n_cst_appmanager)

This example triggers the pfc_Exit event to shut down the application when the pfc_Idle event is triggered:

```
this.Event pfc_Exit()
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

pfc_Logon event (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1680')}

Description

Application manager logon event. This event is called by the w_logon dialog box when the user clicks OK.

Syntax

instancename.EVENT **pfc_Logon** (*userid*, *password*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
userid	String specifying the user ID. From within the pfc_Logon event, access this value through the *as_userid* argument
password	String specifying the password. From within the pfc_Logon event, access this value through *as_password* argument

Return value

Integer. Returns 1 if the logon succeeds and -1 if the logon fails.

Usage

Add code to use this event to log on to the database using the passed user ID and password.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

pfc_Logon event (n_cst_appmanager)

This example takes the passed user ID and password and uses them to log on to the database (assuming an itr_default transaction object):

```
itr_default.of_SetUser(as_userid, as_password)

IF itr_default.of_Connect() >= 0 THEN
        Return 1
ELSE
        Return -1
END IF
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

pfc_Open event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1682')}
```

Description

Application manager Open event.

Syntax

instancename.EVENT **pfc_Open** (*commandline*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
commandline	String containing the command-line options specified when the program was invoked

Usage

To use this event:

1. Call pfc_Open from the Application object's Open event (after creating gnv_app).
2. Add application open logic to pfc_Open.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_Open event (n_cst_appmanager)

This example enables transaction registration and opens the w_test_frame window:

```
// Enable transaction registration services
```

```
this.of_SetTrRegistration(TRUE)

// Register SQLCA
inv_trregistration.of_Register(SQLCA)

// Now open the frame
Open(w_test_frame)
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

pfc_PreAbout event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1684')}
```

Description

Event to control display of the application's About dialog box. This event copies application, logo, version, and copyright information to the n_cst_aboutattrib object, which is used in the About dialog box.

Syntax

instancename.EVENT **pfc_PreAbout** (*attributes*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
attributes	N_cst_aboutattrib variable into which the event places application, logo, version, and copyright information. This argument is accessed through the *anv_aboutattrib* argument (passed by reference)

Usage

This event is triggered when the user selects Help>About in a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

pfc_PreAbout event (n_cst_appmanager)

This example is from the of_About function:

```
n_cst_aboutattrib   lnv_aboutattrib


this.Event pfc_PreAbout(lnv_aboutattrib)
Return OpenWithParm (w_about, lnv_aboutattrib)
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_PreLogonDlg event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1686')}
```

Description

Event to control display of the w_logon dialog box. This event copies information to the n_cst_logonattrib structure object.

Syntax

instancename.EVENT **pfc_PreLogonDlg** (*attributes*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
attributes	N_cst_logonattrib variable into which the event places user ID, application, and logo information. This argument is accessed through the *anv_logonattrib* argument (passed by reference)

Usage

This event is called by the of_LogonDlg function. Extend or update *attributes* to control display of the w_logon dialog box.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

pfc_PreLogonDlg event (n_cst_appmanager)

This example is from the of_LogonDlg function:

```
Integer    li_rc

String     ls_userid
n_cst_logonattrib    lnv_logonattrib

this.Event pfc_PreLogonDlg(lnv_logonattrib)
...
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_PreSplash event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1688')}
```

Description

Event to control display of the application's splash screen.

Syntax

instancename.Event **pfc_PreSplash** (*attributes*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
attributes	N_cst_splashattrib variable into which the event places application, logo, version, and copyright information. This argument is accessed through the *anv_splashattrib* argument (passed by reference)

Usage

This event is called by the of_Splash function.

This event copies application, logo, version, and copyright information to the n_cst_splashattrib object, which is used in the splash window.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

pfc_PreSplash event (n_cst_appmanager)

This example is from the of_Splash function:

```
n_cst_splashattrib   lnv_splashattrib


lnv_splashattrib.ii_secondsvisible = &
        ai_secondsvisible
this.Event pfc_PreSplash(lnv_splashattrib)

OpenWithParm (w_splash, lnv_splashattrib)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

pfc_SystemError event (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1690')}
```

Description

Application manager SystemError event.

Usage

To use this event:

1 Call pfc_SystemError from the application object's SystemError event.

2 (Optional) Add system error logic to pfc_SystemError.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

pfc_SystemError event (n_cst_appmanager)

This example displays information from the Error object:

```
MessageBox("System Error", &

         "Error Number: " + String(Error.Number) &
         + "~r~n" &
         + "Message: " + Error.Text + "~r~n" &
         + "Where: " + Error.WindowMenu + "~r~n" &
         + "Object: " + Error.Object + "~r~n" &
         + "Event: " + Error.ObjectEvent + "~r~n" &
         + "Line: " + String(Error.Line) )
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cst_appmanager

{button Events,JI(`>list_win',`id_pfcoref_1664')} {button Instance variables,JI(`>list_win',`id_pfcoref_1663')}

of_About function

of_GetAppIniFile function

of_GetAppKey function

of_GetCopyright function

of_GetFrame function

of_GetHelpFile function

of_GetLogo function

of_GetMicrohelp function

of_GetUserID function

of_GetUserIniFile function

of_GetUserKey function

of_GetVersion function

of_IsRegistryAvailable function

of_LogonDlg function

of_SetAppIniFile function

of_SetAppKey function

of_SetAppPreference function

of_SetCopyright function

of_SetDebug function

of_SetDwCache function

of_SetError function

of_SetFrame function

of_SetHelpFile function

of_SetLogo function

of_SetMicrohelp function

of_SetMRU function

of_SetSecurity function

of_SetTrRegistration function

of_SetUserID function

of_SetUserIniFile function

of_SetUserKey function

of_SetVersion function

of_Splash function

N_cst_appmanager includes precoded object functions:

- of_About
- of_GetAppIniFile
- of_GetAppKey
- of_GetCopyright
- of_GetFrame
- of_GetHelpFile
- of_GetLogo
- of_GetMicrohelp
- of_GetUserID
- of_GetUserIniFile
- of_GetUserKey
- of_GetVersion
- of_IsRegistryAvailable
- of_SetCopyright
- of_SetDebug
- of_SetDwCache
- of_SetError
- of_SetFrame
- of_SetHelpFile
- of_SetLogo
- of_SetMicrohelp
- of_SetMRU
- of_SetSecurity
- of_SetTrRegistration
- of_SetUserID
- of_SetUserIniFile

of_LogonDlg
of_SetAppIniFile
of_SetAppKey
of_SetAppPreference
of_SetUserKey
of_SetVersion
of_Splash

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_About function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1693')}

Description

Displays the w_about dialog box.

Access

Public

Syntax

instancename.**of_About** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC calls this function when the user selects Help>About from the menu bar of a menu descended from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_About function (n_cst_appmanager)

This example is from the m_master Help>About Clicked event:

```
IF IsValid (gnv_app) THEN

        gnv_app.of_About()
END IF
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetAppIniFile function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1695')}
```

Description

Retrieves the name of the application INI file as established by the of_SetAppIniFile function.

Access

Public

Syntax

*instancename.***of_GetAppIniFile** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_appinifile instance variable, which contains the name of the application-level INI file (specified using the of_SetAppIniFile function).

Usage

Call this function in profile functions (such as ProfileString) to access information in the application INI file. The application INI file typically contains application wide information, such as the database connection profile.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_GetAppIniFile function (n_cst_appmanager)

This example uses the of_GetAppIniFile function to retrieve database connection information:

```
SQLCA.dbms=ProfileString &

        (gnv_app.of_GetAppIniFile(), &
       "Database","DBMS"," ")
SQLCA.database=ProfileString &
        (gnv_app.of_GetAppIniFile(), &
       "Database","Database"," ")
SQLCA.servername=ProfileString &
        (gnv_app.of_GetAppIniFile(), &
       "Database","ServerName"," ")
SQLCA.logid=ProfileString &
        (gnv_app.of_GetAppIniFile(), &
       "Database","LogID"," ")
SQLCA.logpass=ProfileString &
        (gnv_app.of_GetAppIniFile(), &
       "Database","LogPassword"," ")
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_GetAppKey function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1697')}
```

Description

Retrieves the registry key for application information as established by the of_SetAppKey function.

Access

Public

Syntax

*instancename.***of_GetAppKey** ( )

Argument	Description

instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_appkey instance variable.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetAppKey function (n_cst_appmanager)

This example calls the of_GetAppKey function:

```
String     ls_appkey


ls_appkey = gnv_app.of_GetAppKey()
MessageBox("Application", &
        "Application key is:~r~n" + ls_appkey)
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_GetCopyright function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1699')}
```

Description

Retrieves the copyright statement as established by the of_SetCopyright function.

Access

Public

Syntax

instancename.**of_GetCopyright** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_copyright instance variable.

Usage

Call this function to access the application's copyright statement, which is contained in the is_copyright instance variable.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetCopyright function (n_cst_appmanager)

This example calls the of_GetCopyright function:

```
String     ls_copyright
```

```
ls_copyright = gnv_app.of_GetCopyright()
MessageBox("Application", &
        "Copyright is:~r~n" + ls_copyright)
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetFrame function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1701')}

Description

Retrieves the active frame window as established by the of_SetFrame function.

Access

Public

Syntax

*instancename.***of_GetFrame** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

W_frame. Returns the application's active frame window.

Usage

Call this function in PowerScript functions that require the frame window.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetFrame function (n_cst_appmanager)

This example uses the of_GetFrame function in a SetMicroHelp function:

```
gnv_app.of_GetFrame().SetMicroHelp("Connecting...")
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetHelpFile function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1703')}

Description

Retrieves the name of the application's online Help file as established by the of_SetHelpFile function.

Access

Public

Syntax

*instancename.***of_GetHelpFile** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the name of the application's online Help file.

Usage

Call this function instead of hard coding the online Help filename in the PowerScript ShowHelp function.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_GetHelpFile function (n_cst_appmanager)

This example uses the of_GetHelpFile function as part of a PowerScript ShowHelp function that displays the main Help topic:

```
ShowHelp(gnv_app.of_GetHelpFile(), Index!)
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_GetLogo function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1705')}

Description

Retrieves the name of the logo as established by the of_SetLogo function.

Access

Public

Syntax

instancename.**of_GetLogo** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_logo instance variable.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetLogo function (n_cst_appmanager)

This example calls the of_GetLogo function:

```
String    ls_logo


ls_logo = gnv_app.of_GetLogo()
MessageBox("Application", &
        "Logo is:~r~n" + ls_logo)
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help

Authoring Tool

of_GetMicrohelp function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1707')}
```

Description

Retrieves the application's current MicroHelp behavior as established by the of_SetMicrohelp function.

Access

Public

Syntax

instancename.**of_GetMicrohelp** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

Boolean. Returns TRUE if MicroHelp is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetMicrohelp function (n_cst_appmanager)

This example calls the of_GetMicrohelp function:

```
IF gnv_app.of_GetMicrohelp() THEN

        MessageBox("Application", &
       "Microhelp is enabled")
ELSE
        MessageBox("Application", &
       "Microhelp is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetUserID function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1709')}
```

Description

Retrieves the current user's ID as established by the of_SetUserID function.

Access

Public

Syntax

*instancename.***of_GetUserID** ( )

Argument	Description

instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the ID of the current user, which is contained in the is_userid instance variable.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_GetUserID function (n_cst_appmanager)

This example uses the of_GetUserID function to populate the st_user static text field:

```
st_version.text = gnv_app.of_GetVersion()

st_user.text = gnv_app.of_GetUserID()
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetUserIniFile function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1711')}
```

Description

Retrieves the name of the user INI file as established by the of_SetUserIniFile function.

Access

Public

Syntax

*instancename.***of_GetUserIniFile** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_userinifile instance variable, which contains the name of the user-specific INI file.

Usage

Call this function in profile functions (such as ProfileString) to access information in the user INI file.

The user INI file typically contains user-specific information, such as toolbar settings and window position.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_GetUserIniFile function (n_cst_appmanager)

This example calls the of_GetUserIniFile function to name the user INI file in the n_cst_winsrv_preference of_Save function:

```
this.inv_preference.of_Save &
```

```
(gnv_app.of_GetUserIniFile(), "Position")
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetUserKey function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1713')}
```

Description

Retrieves the registry key for user information as established by the of_SetUserKey function.

Access

Public

Syntax

instancename.**of_GetUserKey** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the is_userkey instance variable.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetUserKey function (n_cst_appmanager)

This example calls the of_GetUserKey function:

```
String    ls_userkey


ls_userkey = gnv_app.of_GetUserKey()
MessageBox("Application", &
        "User key is:~r~n" + ls_userkey)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetVersion function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1715')}
```

Description

Retrieves the current version as established by the of_SetVersion function.

Access

Public

Syntax

*instancename.***of_GetVersion** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

String. Returns the application version, which is contained in the is_version instance variable.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_GetVersion function (n_cst_appmanager)

This example uses the of_GetVersion function to populate the st_version static text field:

```
st_version.text = gnv_app.of_GetVersion()

st_user.text = gnv_app.of_GetUserID()
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_IsRegistryAvailable function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1717')}
```

Description

Reports whether the workstation supports the registry.

Access

Public

Syntax

instancename.**of_IsRegistryAvailable** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

Boolean. Returns TRUE if the workstation is running Windows and FALSE if it is not.

Usage

You can use this function to add cross-platform support to an application, writing information to either the registry or an INI file, depending on the platform.

If you never want to use the registry PFC uses this function internally to determine whether to access the registry or an INI file. If your application never uses the registry, override this function's extension-level descendant to always return FALSE.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_IsRegistryAvailable function (n_cst_appmanager)

This example calls the of_IsRegistryAvailable function:

```
String    ls_setting

Integer   li_return

IF gnv_app.of_IsRegistryAvailable() THEN
        registryGet(gnv_app.of_GetUserKey(), &
       "ToolbarSettings", ls_setting)
        IF ls_setting = "" THEN ls_setting = "TRUE"
ELSE
        ls_setting = &
       ProfileString(gnv_app.of_GetUserIniFile(), &
       "ToolbarSettings", "Visible", "TRUE")
END IF
MessageBox("Application", "Visible setting is " &
        + ls_setting)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_LogonDlg function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1719')}
```

Description

Displays the w_logon dialog box and then calls the pfc_Logon event, allowing you to log the user on to the database.

Access

Public

Syntax

instancename.**of_LogonDlg** ( )

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)

Return value

Integer. Returns 1 if the function succeeds, 0 if the user cancels out of the dialog box, and -1 if an error occurs.

Usage

If you call this function, you must also add code to pfc_Logon to perform the actual database logon.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_LogonDlg function (n_cst_appmanager)

This example is from a frame window's pfc_Open event:

```
of_Splash (1)

Open(w_frame)
IF of_LogonDlg() = 0 THEN
        this.Event pfc_Exit()
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetAppIniFile function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1721')}
```

Description

Specifies the application INI file. The application INI file contains application-wide settings, such as database connection information. N_cst_appmanager maintains this setting in the is_appinifile instance variable.

Access

Public

Syntax

*instancename.***of_SetAppIniFile** (*inifilename*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
inifilename	String specifying the fully qualified name of the application INI file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You should call this function at application startup, typically in the n_cst_appmanager Constructor event.

Your application accesses the application INI filename through the of_GetAppIniFile function.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetAppIniFile function (n_cst_appmanager)

This example calls the of_SetAppIniFile function in the n_cst_appmanager Constructor event (since it's called from within the object, it doesn't require the gnv_app prefix):

```
of_SetAppIniFile("c:\eis\eisapp.ini")
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_SetAppKey function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1723')}

Description

Specifies the registry key for application information.

Access

Public

Syntax

*instancename.***of_SetAppKey** (*registrykey*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
registrykey	String containing the registry key

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The application registry key is contained in the is_appkey instance variable.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_SetAppKey function (n_cst_appmanager)

This example calls the of_SetAppKey function:

```
String   ls_appkey


ls_appkey = "HKEY_CURRENT_USER\Software\EISAPP"
gnv_app.of_SetAppKey(ls_appkey)
gnv_app.of_GetFrame().SetMicroHelp &
        ("Application key set successfully")
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetAppPreference function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1725')}
```

Description

Enables or disables the application preference service. The application preference service is implemented through the n_cst_apppreference user object. You reference this instance of n_cst_apppreference through the inv_appref instance variable.

Access

Public

Syntax

*instancename.***of_SetAppPreference** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the application preference service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetAppPreference function (n_cst_appmanager)

This example enables the security service:

```
gnv_app.of_SetAppPreference(TRUE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetCopyright function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1727')}

Description

Sets the copyright statement that displays in the w_about dialog box.

Access

Public

Syntax

instancename.**of_SetCopyright** (*copyrighttext*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
copyrighttext	String specifying the copyright text

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetCopyright function (n_cst_appmanager)

This example calls the of_SetCopyright function:

```
String    ls_copyright


ls_copyright = &
        "Acme Software, Inc. All rights reserved"
gnv_app.of_SetCopyright(ls_copyright)
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetDebug function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1729')}

Description

Enables or disables the debugging service. The debugging service is implemented through the n_cst_debug user object. You reference this instance of n_cst_debug through the inv_debug instance

variable.

Access

Public

Syntax

*instancename.***of_SetDebug** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the PFC debugging service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetDebug function (n_cst_appmanager)

This example calls the of_SetDebug function:

```
gnv_app.of_SetDebug(TRUE)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_SetDwCache function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1731')}

Description

Enables or disables the data caching service. The data caching service is implemented through the n_cst_dwcache user object. You reference this instance of n_cst_dwcache through the inv_dwcache instance variable.

Access

Public

Syntax

*instancename.***of_SetDwCache** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the data caching service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetDwCache function (n_cst_appmanager)

This example enables the data caching service:

```
gnv_app.of_SetDwCache(TRUE)
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_SetError function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1733')}

Description

Enables or disables the error service. The error service is implemented through the n_cst_error user object. You reference this instance of n_cst_error through the inv_error instance variable.

Access

Public

Syntax

*instancename.***of_SetError** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app).
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the error service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetError function (n_cst_appmanager)

This example enables the error service:

```
gnv_app.of_SetError(TRUE)
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetFrame function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1735')}

Description

Assigns the active frame window to the iw_frame instance variable.

Access

Public

Syntax

*instancename.***of_SetFrame** (*framewindow*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
framewindow	W_frame variable specifying the frame window

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The w_frame Activate event calls this function to establish the iw_frame instance variable.

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_SetFrame function (n_cst_appmanager)

This example is from the w_frame Activate event and establishes the active frame window:

```
IF IsValid (gnv_app) THEN

        gnv_app.of_SetFrame(this)
END IF
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetHelpFile function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1737')}
```

Description

Specifies the application's Help file. N_cst_appmanager maintains this setting in the is_helpfile instance variable.

Access

Public

Syntax

*instancename.***of_SetHelpFile** (*filename*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
filename	String specifying the fully qualified name of the online Help file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You should call this function at application startup, typically in the n_cst_appmanager Constructor event. Your application accesses the Help filename through the of_GetHelpFile function.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_SetHelpFile function (n_cst_appmanager)

This example calls the of_SetHelpFile function in the n_cst_appmanager Constructor event (since it's called from within the object, it doesn't require the gnv_app prefix):

```
of_SetHelpFile("c:\eis\eisapp.hlp")
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_SetLogo function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1739')}

Description

Specifies the name of the logo that displays in the w_about dialog box.

Access

Public

Syntax

instancename.**of_SetLogo** (*logoname*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
logoname	String specifying the name of the image file containing the logo. This must either be a fully qualified filename or reside in a directory on the system path

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetLogo function (n_cst_appmanager)

This example calls the of_SetLogo function.

```
String     ls_logo


ls_logo = "bubbles.bmp"
gnv_app.of_SetLogo(ls_logo)
```

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_SetMicrohelp function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1741')}

Description

Enables or disables automatic MicroHelp display.

Access

Public

Syntax

instancename.**of_SetMicrohelp** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) default MicroHelp display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetMicrohelp function (n_cst_appmanager)

This example calls the of_SetMicrohelp function:

```
gnv_app.of_SetMicrohelp(TRUE)
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_SetMRU function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1743')}

Description

Enables or disables the most recently used object service. The most recently used object service is implemented through the n_cst_mru user object. You reference this instance of n_cst_mru through the inv_mru instance variable.

Access

Public

Syntax

*instancename.***of_SetMRU** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the most recently used object service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_SetMRU function (n_cst_appmanager)

This example enables the most recently used object service:

```
gnv_app.of_SetMRU(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_SetSecurity function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1745')}

Description

Enables or disables the security service. The security service is implemented through the n_cst_security user object. You reference this instance of n_cst_security through the inv_security instance variable.

Access

Public

Syntax

*instancename.***of_SetSecurity** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the security service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_SetSecurity function (n_cst_appmanager)

This example enables the security service:

```
gnv_app.of_SetSecurity(TRUE)
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetTrRegistration function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1747')}

Description

Enables or disables the transaction registration service. The transaction registration service is implemented through the n_cst_trregistration user object. You reference this instance of through the inv_trregistration instance variable.

Access

Public

Syntax

*instancename.***of_SetTrRegistration** (*boolean*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) the transaction registration service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_SetTrRegistration function (n_cst_appmanager)

This example enables the transaction registration service:

```
gnv_app.of_SetTrRegistration(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_SetUserID function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1749')}

Description

Saves the passed user name in the is_userid instance variable.

Access

Public

Syntax

*instancename.***of_SetUserID** (*userid*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
userid	String specifying the user id

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to establish the user ID of the current user.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SetUserID function (n_cst_appmanager)

This example sets the current user equal to the user ID entered in the sle_user SingleLineEdit:

```
IF sle_user.text <> "" THEN

        gnv_app.of_SetUserID(sle_user.text)
END IF
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetUserIniFile function (n_cst_appmanager)

```
{button Object,JI(`>main',`cbbccbai')} {button
Examples,JI(`>Examples',`id_pfcoref_1751')}
```

Description

Specifies the user INI file. The user INI file contains user-specific settings, such as window position information. N_cst_appmanager maintains this setting in the is_userinifile instance variable.

Access

Public

Syntax

*instancename.***of_SetUserIniFile** (*inifilename*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
inifilename	String specifying the fully qualified name of the user INI file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You should call this function at application startup, typically in the n_cst_appmanager Constructor event.

Your application accesses the application INI filename through the of_GetUserIniFile function.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetUserIniFile function (n_cst_appmanager)

This example calls the of_SetUserIniFile function in the n_cst_appmanager Constructor event (since it's called from within the object, it doesn't require the gnv_app prefix):

```
of_SetUserIniFile("c:\eis\eisuser.ini")
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_SetUserKey function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1753')}

Description

Specifies the registry key for user information.

Access

Public

Syntax

instancename.**of_SetUserKey** (*registrykey*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
registrykey	String containing the registry key

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to set the user's registry key, which is contained in the is_userkey instance variable.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetUserKey function (n_cst_appmanager)

This example calls the of_SetUserKey function:

```
String   ls_userkey


ls_userkey = "HKEY_CURRENT_USER\Software\EISUSER"
gnv_app.of_SetUserKey(ls_userkey)
gnv_app.of_GetFrame().SetMicroHelp &
        ("User key set successfully")
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetVersion function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1755')}

Description

Specifies the application version. N_cst_appmanager maintains this setting in the is_version instance variable.

Access

Public

Syntax

*instancename.***of_SetVersion** (*version*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
version	String specifying the version

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You should call this function at application startup, typically in the n_cst_appmanager Constructor event.

Your application accesses the application version through the of_GetVersion function.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetVersion function (n_cst_appmanager)

This example calls the of_SetVersion function in the n_cst_appmanager Constructor event (since it's called from within the object, it doesn't require the gnv_app prefix):

```
of_SetVersion("Version 2.1B")
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_Splash function (n_cst_appmanager)

{button Object,JI(`>main',`cbbccbai')} {button Examples,JI(`>Examples',`id_pfcoref_1757')}

Description

Displays the w_splash window for the specified number of seconds.

Access

Public

Syntax

*instancename.***of_Splash** (*secondsvisible*)

Argument	Description
instancename	Global variable of type n_cst_appmanager (must be gnv_app)
secondsvisible	Integer specifying the number of seconds to display the w_splash window

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To use this function:

1 (Optional) Modify the w_splash extension-level window to display site-specific information.

2 (Optional) Extend the pfc_PreSplash event to dynamically modify w_splash.

3 In the n_cst_appmanager Constructor event, call functions to specify application, copyright, logo, and version information.

4 In the pfc_Open event, call this function just before opening the main window.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_Splash function (n_cst_appmanager)

This example calls the of_Splash function:

```
of_Splash(1)
```

```
Open(w_tut_frame)
IF of_LogonDlg() = 0 THEN
        this.Event pfc_Exit()
END IF
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_cst_apppreference

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1759')}
{button Functions,JI(`>list_win',`id_pfcoref_1764')} {button
Events,JI(`>list_win',`id_pfcoref_1761')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1760')}
```

Description

Application preference service. When enabled, you can use n_cst_apppreference to save and restore application and user information using either an INI file or the Windows registry. N_cst_apppreference saves the following *application* information:

User key

MicroHelp

Help file

Version

Logo bitmap

Copyright notice

DDETimeOut property

DisplayName property

DWMessageTitle property

MicrohelpDefault property

RightToLeft property

ToolbarFrameTitle property

ToolbarPopMenuText property

ToolbarSheetTitle property

ToolbarUserControl property

N_cst_apppreference can also save the following *user* information:

ToolbarText property

ToolbarTips property

User ID

N_cst_apppreference automatically loads settings when the application opens and stores them when the application closes. This information is stored in either the registry (available on Windows platforms only) or an INI file (available on all platforms).

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_appatrib

n_cst_conversion

n_cst_inifile

n_cst_string

Usage

Use this object to save and restore application information.

To use n_cst_apppreference:

1 Enabled n_cst_apppreference by calling the n_cst_appmanager of_SetAppPreference function (this example is from an n_cst_appmanager Constructor event):

```
this.of_SetAppPreference(TRUE)
```

2 Specify the platform-specific repository for application preferences. This example from an application manager Constructor event saves application preferences in the registry or INI file, depending on the execution platform. It assumes you've already established n_cst_appmanager specifications for application key, user key, application INI file, and user INI file:

```
IF this.of_IsRegistryAvailable() THEN

   this.inv_appref.of_SetAppKey &
```

```
        (this.of_GetAppKey())
      this.inv_appref.of_SetUserKey &
        (this.of_GetUserKey())
   ELSE
      this.inv_appref.of_SetAppINIFile &
        (this.of_GetAppINIFile())
      this.inv_appref.of_SetUserINIFile &
        (this.of_GetUserINIFile())
   END IF
```

3 Specify the types of information to save by calling the of_SetRestoreApp and of_SetRestoreUser functions:

```
this.inv_appref.of_SetRestoreApp(TRUE)

this.inv_appref.of_SetRestoreUser(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

n_cst_apppreference

n_cst_appmanager

n_cst_winsrv_preference

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

n_cst_apppreference

{button Functions,JI(`>list_win',`id_pfcoref_1764')} {button Events,JI(`>list_win',`id_pfcoref_1761')}

N_cst_apppreference includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_restoreapp	Controls whether the service saves and restores application-wide settings	Boolean	Protected	Set with of_SetRestoreApp
ib_restoreuser	Controls whether the service saves and restores user-specific settings	Boolean	Protected	Set with of_SetRestoreUser
inv_appmanager	Reference to application manager	n_cst_appmanager	Protected	Used to access application information
is_appinifile	INI file that contains application information	String	Protected	Set with of_SetAppINIFile
is_appkey	Registry key that contains application information	String	Protected	Set with of_SetAppKey
is_apppref section	INI file section or registry key for application information	String	Protected	Internal. Default is AppPref
is_userinifile	INI file that contains user information	String	Protected	Set with of_SetUserINIFile
is_userkey	Registry key that contains application information	String	Protected	Set with of_SetUserKey
is_userpref	INI file or registry key for user information	String	Protected	Internal. Default is AppUserPref

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

n_cst_apppreference

{button Functions,JI(`>list_win',`id_pfcoref_1764')} {button Instance variables,JI(`>list_win',`id_pfcoref_1760')}

pfc_Close event

pfc_Open event

N_cst_apppreference includes precoded events:

pfc_Close

pfc_Open

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

pfc_Close event (n_cst_apppreference)

{button Object,JI(`>main',`cbbcahej')}

Description

Saves application and user properties when the application closes.

Syntax

*application.instancename.*EVENT**pfc_Close** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the application closes; it is called by the n_cst_appmanager pfc_Close event if n_cst_apppreference is enabled. It saves application and user properties as specified by the of_SetRestoreApp and of_SetRestoreUser functions.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_Open event (n_cst_apppreference)

{button Object,JI(`>main',`cbbcahej')}

Description

Restores application and user properties when the application opens.

Syntax

*application.instancename.*EVENT**pfc_Open** (*commandline*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
commandline	String containing the command-line options specified when the program was invoked

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event executes when the application opens; it is called by the n_cst_appmanager pfc_Open event if n_cst_apppreference is enabled. It restores application and user properties as specified by the of_SetRestoreApp and of_SetRestoreUser functions, which you typically call in the n_cst_appmanager Constructor event.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cst_apppreference

{button Events,JI(`>list_win',`id_pfcoref_1761')} {button Instance variables,JI(`>list_win',`id_pfcoref_1760')}

of_IsRestoreApp function

of_IsRestoreUser function

of_Restore function

of_RestoreApp function

of_RestoreUser function

of_Save function

of_SaveApp function

of_SaveUser function

of_SetAppIniFile function

of_SetAppKey function

of_SetRequestor function

of_SetRestoreApp function

of_SetRestoreUser function

of_SetUserIniFile function

of_SetUserKey function

N_cst_apppreference contains precoded object functions:

of_IsRestoreApp
of_RestoreUser
of_Restore
of_RestoreApp
of_RestoreUser
of_Save
of_SaveApp
of_SaveUser
of_SetAppIniFile
of_SetAppKey
of_SetRequestor
of_SetRestoreApp
of_SetRestoreUser
of_SetUserIniFile
of_SetUserKey

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_IsRestoreApp function (n_cst_apppreference)

{button Object,JI(`>main',`cbbcahej')} {button Examples,JI(`>Examples',`id_pfcoref_1766')}

Description

Reports whether n_cst_apppreference saves and restores application settings.

Access

Public

Syntax

application.instancename.**of_IsRestoreApp** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)

Return value

Boolean. Returns TRUE if the service saves and restores application settings and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_IsRestoreApp function (n_cst_apppreference)

This example calls the of_IsRestoreApp function:

```
n_cst_conversion lnv_conversion

Boolean lb_appinfo

lb_appinfo = &
gnv_app.inv_appref.of_IsRestoreApp()
MessageBox("App Preferences", &
  "Save app info is " &
    + lnv_conversion.of_String(lb_appinfo))
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_IsRestoreUser function (n_cst_apppreference)

{button Object,JI(`>main',`cbbcahej')} {button Examples,JI(`>Examples',`id_pfcoref_1768')}

Description

Reports whether n_cst_apppreference saves and restores user settings.

Access

Public

Syntax

application.instancename.**of_IsRestoreUser** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)

instancename	Instance name of n_cst_appreference (the n_cst_appmanager default for this is inv_appref)

Return value

Boolean. Returns TRUE if the service saves and restores user settings and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_IsRestoreUser function (n_cst_appreference)

This example calls the of_IsRestoreUser function:

```
n_cst_conversion lnv_conversion

Boolean lb_userinfo

lb_userinfo = &
gnv_app.inv_appref.of_IsRestoreUser()
MessageBox("App Preferences", &
  "Save user info is " &
    + lnv_conversion.of_String(lb_userinfo))
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_Restore function (n_cst_appreference)

{button Object,JI(`>main',`cbbcahej')}

Restores application and user settings from the registry or an INI file:

To	Use
Restore settings from the registry	Syntax 1
Restore settings from an INI file	Syntax 2

Other syntaxes There are two additional protected versions of the of_Restore function. These are for internal use.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

Syntax 1 Restore settings from the registry

Syntax 1 Restore settings from the registry

{button Examples,JI(`>Examples',`id_pfcoref_1771')}

Description

Restores application and user settings from the registry.

Access

Public

Syntax

application.instancename.**of_Restore** (*processapp*, *registrykey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
processapp	Boolean indicating whether to restore application settings (TRUE) or user settings (FALSE)
registrykey	String specifying the registry key in which to restore settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If n_cst_apppreference is enabled, the n_cst_apppreference pfc_Open event calls this function automatically.

This syntax is for Windows platforms only. Use Syntax 2 to restore settings from an INI file.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

Syntax 1 Restore settings from the registry

This example is from the pfc_Open event:

```
...

IF ib_restoreapp THEN
  IF (is_appkey <> "") THEN
    li_rc = of_Restore (TRUE, is_appkey)
  ELSEIF (is_appinifile <> "") THEN
    li_rc = of_Restore(TRUE, &
    is_appinifile, is_appref)
  ELSE
    Return 0
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

Syntax 2 Restore settings from an INI file

Syntax 2 Restore settings from an INI file

`{button Examples,JI(`>Examples',`id_pfcoref_1773')}`

Description

Restores application and user settings from an INI file.

Access

Public

Syntax

application.*instancename*.**of_Restore** (*processapp*, *inifile*, *inisection*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)

instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
processapp	Boolean indicating whether to restore application settings (TRUE) or user settings (FALSE)
inifile	String specifying the INI file from which to restore settings
inisection	String specifying the INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If n_cst_apppreference is enabled, the n_cst_apppreference pfc_Open event calls this function automatically.

This syntax is for all platforms. Use Syntax 1 to restore settings from the registry.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

Syntax 2 Restore settings from an INI file

This example is from the pfc_Open event:

```
...

IF ib_restoreapp THEN
  IF (is_appkey <> "") THEN
    li_rc = of_Restore(TRUE, is_appkey)
  ELSEIF (is_appinifile <> "") THEN
    li_rc = of_Restore (TRUE, &
      is_appinifile, is_appref )
  ELSE
    Return 0
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_RestoreApp function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1775')}
```

Description

Restores application information from either the registry or an INI file.

Access

Protected

Syntax

application.instancename.**of_RestoreApp** (*useregistry*, *keyorinifile*, *section*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)

useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file (FALSE)
keyorinifile	String specifying either the registry key or the INI file from which to restore settings
section	String specifying the section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_RestoreApp function (n_cst_apppreference)

This example is from the of_Restore function:

```
...

IF ab_processapp THEN
  li_rc =  of_RestoreApp (ab_useregistry, &
    as_keyorini, as_inisection)
ELSE
  li_rc = of_RestoreUser(ab_useregistry, &
    as_keyorini, as_inisection
END IF
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_RestoreUser function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1777')}
```

Description

Restores user information from either the registry or an INI file.

Access

Protected

Syntax

application.*instancename*.**of_RestoreUser** (*useregistry*, *keyorinifile*,)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file (FALSE)
keyorinifile	String specifying either the registry key or the INI file from which to restore settings
section	String specifying the section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_RestoreUser function (n_cst_apppreference)

This example is from the of_Restore function:

```
...

IF ab_processapp THEN
  li_rc = of_RestoreApp(ab_useregistry, &
  as_keyorini, as_inisection)
ELSE
  li_rc = of_RestoreUser (ab_useregistry, &
  as_keyorini, as_inisection)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Save function (n_cst_apppreference)

{button Object,JI(`>main',`cbbcahej')}

Saves window, toolbar, and menu settings in the registry or an INI file. There are two syntaxes:

To	Use
Save settings in the registry	Syntax 1
Save settings in an INI file	Syntax 2

Other syntaxes There are two additional protected versions of the of_Save function. These are for internal use.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

Syntax 1 Save settings in the registry

Syntax 1 Save settings in the registry

{button Examples,JI(`>Examples',`id_pfcoref_1780')}

Description

Saves application and user settings in the registry.

Access

Public

Syntax

application.instancename.**of_Save** (*processapp*, *registrykey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for

	this is inv_appref)
processapp	Boolean indicating whether to save application settings (TRUE) or user settings (FALSE)
registrykey	String specifying the registry key in which to save settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If n_cst_apppreference is enabled, the n_cst_apppreference pfc_Close event calls this function automatically.

This syntax is for the Windows platforms only. Use Syntax 2 to save settings in an INI file.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

Syntax 1 Save settings in the registry

This example is from the pfc_Close event:

```
...

IF ib_restoreapp THEN
  IF (is_appkey <> "") THEN
    li_rc = of_Save(TRUE, is_appkey)
  ELSEIF (is_appinifile <> "") THEN
    li_rc = of_Save(TRUE, is_appinifile, &
      is_appprefsection)
  ELSE
    Return 0
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

Syntax 2 Save settings in an INI file

Syntax 2 Save settings in an INI file

`{button Examples,JI(`>Examples',`id_pfcoref_1782')}`

Description

Saves application and user settings in an INI file.

Access

Public

Syntax

application.instancename.**of_Save** (*processapp*, *inifile*, *section*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
processapp	Boolean indicating whether to save application settings (TRUE) or user settings (FALSE)

inifile	String specifying the INI file in which to save settings
section	String specifying the INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If n_cst_apppreference is enabled, the n_cst_apppreference pfc_Close event calls this function automatically.

This syntax is for all platforms. Use Syntax 1 to save settings in the registry.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

Syntax 2 Save settings in an INI file

This example is from the pfc_Close event:

```
...

IF ib_restoreapp THEN
  IF (is_appkey <> "") THEN
    li_rc = of_Save(TRUE, is_appkey)
  ELSEIF (is_appinifile <> "") THEN
    li_rc = of_Save(TRUE, is_appinifile, &
      is_appprefsection)
  ELSE
    Return 0
  END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_SaveApp function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1784')}
```

Description

Saves application information in either the registry or an INI file.

Access

Protected

Syntax

application.instancename.**of_SaveApp** (*useregistry*, *keyorinifile*, *section*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is appref)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file (FALSE)
keyorinifile	String specifying the registry key or INI file in which to save settings
section	String specifying the INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SaveApp function (n_cst_apppreference)

This example calls the of_Save function:

```
...

IF ab_ProcessApp THEN
  li_rc = of_SaveApp (ab_useregistry, &
    as_keyorini, as_inisection)
ELSE
  li_rc = of_SaveUser(ab_useregistry, &
    as_keyorini, as_inisection)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SaveUser function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1786')}
```

Description

Saves user information in either the registry or an INI file.

Access

Protected

Syntax

application.instancename.**of_SaveUser** (*useregistry*, *keyorinifile*, *section*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file (FALSE)
keyorinifile	String specifying the registry key or INI file in which to save settings
section	String specifying the registry key or INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_SaveUser function (n_cst_appreference)

This example calls the of_SaveUser function:

```
...

IF ab_ProcessApp THEN
   li_rc = of_SaveApp(ab_useregistry, &
      as_keyorini, as_inisection)
ELSE
   li_rc = of_SaveUser(ab_useregistry, &
      as_keyorini, as_inisection)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_SetAppIniFile function (n_cst_appreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1788')}
```

Description

Specifies the name of the application INI file, which contains application preferences.

Access

Public

Syntax

*application.instancename.***of_SetAppIniFile** (*inifilename*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_appreference (the n_cst_appmanager default for this is inv_appref)
inifilename	String specifying the fully qualified name of the application INI file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The INI file you set for application preferences is typically the same as the n_cst_appmanager application INI file.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_SetAppIniFile function (n_cst_appreference)

This example from an n_cst_appmanager Constructor event calls the of_SetAppINIFile function:

```
...

IF this.of_IsRegistryAvailable() THEN
```

```
    this.inv_appref.of_SetAppKey &
      (this.of_GetAppKey())
    this.inv_appref.of_SetUserKey &
      (this.of_GetUserKey())
  ELSE
    this.inv_appref.of_SetAppINIFile &
      (this.of_GetAppINIFile())
    this.inv_appref.of_SetUserINIFile &
      (this.of_GetUserINIFile())
  END IF
  ...
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetAppKey function (n_cst_appreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1790')}
```

Description

Specifies the name of the registry key for application information. N_cst_appreference uses this key by default on Windows platforms.

Access

Public

Syntax

application.*instancename*.**of_SetAppKey** (*registrykey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_appreference (the n_cst_appmanager default for this is inv_appref)
registrykey	String containing the registry key

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The registry key you set for application information is typically the same as the n_cst_appmanager application key.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetAppKey function (n_cst_appreference)

This example calls the of_SetAppKey function:

```
  ...

  IF this.of_IsRegistryAvailable() THEN
    this.inv_appref.of_SetAppKey &
      (this.of_GetAppKey())
    this.inv_appref.of_SetUserKey &
      (this.of_GetUserKey())
  ELSE
    this.inv_appref.of_SetAppINIFile &
      (this.of_GetAppINIFile())
```

```
    this.inv_appref.of_SetUserINIFile &
      (this.of_GetUserINIFile())
  END IF
  ...
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_SetRequestor function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1792')}
```

Description

Associates n_cst_appmanager with n_cst_apppreference.

Access

Public

Syntax

application.instancename.**of_SetRequestor** (*requestor*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
requestor	N_cst_appmanager instance to associate with this instance of n_cst_apppreference

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The n_cst_appmanager of_SetAppPreference function calls this function.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_SetRequestor function (n_cst_apppreference)

This example is from the n_cst_appmanager of_SetAppPreference function:

```
  ...

  IF ab_Switch THEN
    IF IsNull(inv_appref) &
      OR NOT IsValid (inv_appref) THEN
        inv_appref = CREATE n_cst_apppreference
        inv_appref. of_SetRequestor (this)
    Return 1
  END IF
  ...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetRestoreApp function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1794')}
```

Description

Specifies whether n_cst_apppreference restores application settings.

Access

Public

Syntax

application.*instancename*.**of_SetRestoreApp** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
boolean	Boolean specifying whether to save application preferences (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You typically call this function in the n_cst_appmanager Constructor event, just after enabling n_cst_apppreference.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetRestoreApp function (n_cst_apppreference)

This example calls the of_SetRestoreApp function:

```
...

IF this.of_IsRegistryAvailable() THEN
  this.inv_appref.of_SetAppKey &
    (this.of_GetAppKey())
  this.inv_appref.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_appref.of_SetAppINIFile &
    (this.of_GetAppINIFile())
  this.inv_appref.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
this.inv_appref.of_SetRestoreApp (TRUE)
this.inv_appref.of_SetRestoreUser(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetRestoreUser function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1796')}
```

Description

Specifies whether n_cst_apppreference restores user settings.

Access

Public

Syntax

application.instancename.**of_SetRestoreUser** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
boolean	Boolean specifying whether to save user preferences (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You typically call this function in the n_cst_appmanager Constructor event, just after enabling n_cst_apppreference.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetRestoreUser function (n_cst_apppreference)

This example calls the of_SetRestoreUser function:

```
...

this.of_SetAppPreference(TRUE)
IF this.of_IsRegistryAvailable() THEN
  this.inv_appref.of_SetAppKey &
    (this.of_GetAppKey())
  this.inv_appref.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_appref.of_SetAppINIFile &
    (this.of_GetAppINIFile())
  this.inv_appref.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
this.inv_appref.of_SetRestoreApp(TRUE)
this.inv_appref.of_SetRestoreUser( TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_SetUserIniFile function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1798')}
```

Description

Specifies the name of the INI file for user information.

Access

Public

Syntax

*application.instancename.***of_SetUserIniFile** (*inifilename*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
inifilename	String specifying the fully qualified name of the user INI file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The INI file for user information is typically the same as the n_cst_appmanager user INI file.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetUserIniFile function (n_cst_apppreference)

This example calls the of_SetUserIniFile function:

```
...

this.of_SetAppPreference(TRUE)
IF this.of_IsRegistryAvailable() THEN
  this.inv_appref.of_SetAppKey &
    (this.of_GetAppKey())
  this.inv_appref.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_appref.of_SetAppINIFile &
    (this.of_GetAppINIFile())
  this.inv_appref.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetUserKey function (n_cst_apppreference)

```
{button Object,JI(`>main',`cbbcahej')} {button
Examples,JI(`>Examples',`id_pfcoref_1800')}
```

Description

Specifies the name of the registry key for user information. N_cst_apppreference uses this key by default on Windows platforms.

Access

Public

Syntax

application.instancename.**of_SetUserKey** (*registrykey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default for this is inv_appref)
registrykey	String containing the registry key

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The registry key for user information is typically the same as the n_cst_appmanager user key.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetUserKey function (n_cst_apppreference)

This example calls the of_SetUserKey function:

```
...

this.of_SetAppPreference(TRUE)
IF this.of_IsRegistryAvailable() THEN
  this.inv_appref.of_SetAppKey &
    (this.of_GetAppKey())
  this.inv_appref.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_appref.of_SetAppINIFile &
    (this.of_GetAppINIFile())
  this.inv_appref.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_color

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1802')}
```

Description

Color object. This object contains a set of constants you can reference to specify color values.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use this object:

1 Declare a variable of type n_cst_color.

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements:

```
n_cst_color lnv_color
```

2 Use n_cst_color constants as needed:

```
rte_1.SetTextColor  &

   (lnv_color.CYAN)
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

n_cst_color

N_cst_color includes instance variables:

Instance variable	Description	Data type	Access	Usage

APPLICATION_ WORKSPACE	Constant set to 268435456	Integer	Public	Specify colors
BLACK	Constant set to RGB(0, 0, 0)	Integer	Public	Specify colors
BLUE	Constant set to RGB(0, 0, 255)	Integer	Public	Specify colors
BROWN	Constant set to RGB(128, 128, 0)	Integer	Public	Specify colors
BUTTONFACE	Constant set to 78682240	Integer	Public	Specify colors
CYAN	Constant set to RGB(0, 255, 255)	Integer	Public	Specify colors
DARK_BLUE	Constant set to RGB(0, 0, 128)	Integer	Public	Specify colors
DARK_CYAN	Constant set to RGB(0, 128, 128)	Integer	Public	Specify colors
DARK_GRAY	Constant set to RGB(128, 128, 128)	Integer	Public	Specify colors
DARK_GREEN	Constant set to RGB(0, 128, 0)	Integer	Public	Specify colors
DARK_MAGENTA	Constant set to RGB(128, 0, 128)	Integer	Public	Specify colors
DARK_RED	Constant set to RGB(128, 0, 0)	Integer	Public	Specify colors
GREEN	Constant set to RGB(0, 255, 0)	Integer	Public	Specify colors
LIGHT_GRAY	Constant set to RGB(192, 192, 192)	Integer	Public	Specify colors
MAGENTA	Constant set to RGB(255, 0, 255)	Integer	Public	Specify colors
RED	Constant set to RGB(255, 0, 0)	Integer	Public	Specify colors
TRANSPARENT	Constant set to 553648127	Integer	Public	Specify colors
WHITE	Constant set to RGB(255, 255, 255)	Integer	Public	Specify colors
WINDOW_ BACKGROUND	Constant set to 1087434968	Integer	Public	Specify colors
WINDOW_TEXT	Constant set to 33554592	Integer	Public	Specify colors
YELLOW	Constant set to RGB(255, 255, 0)	Integer	Public	Specify colors

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

n_cst_conversion

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1804')} {button Functions,JI(`>list_win',`id_pfcoref_1805')}

Description

Data type conversion service. This service provides functions you can call to convert values from one data type to another. For example, you can call the of_Boolean function to convert an integer or a string into a boolean value.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use conversion functions:

1 Declare a variable of type n_cst_conversion.

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements:

```
n_cst_conversion    inv_conversion
```

2 Call conversion service functions as needed.

This example assumes an inv_conversion instance variable:

```
String     ls_fulltext

Boolean    lb_fulltext

ls_fulltext = ProfileString &
            (gnv_app.of_GetUserIniFile( ), &
       "Display", "FullText", "Yes")
lb_fulltext = &
            inv_conversion.of_Boolean( ls_fulltext )
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

n_cst_conversion

n_cst_numerical

n_cst_string

Created with the Personal Edition of HelpNDoc: Free Kindle producer

n_cst_conversion

of_Boolean function
of_Button function
of_Date function
of_DWItemStatus function
of_Icon function
of_Integer function
of_OSType function
of_SQLPreviewType function
of_String function
of_Time function
of_ToolbarAlignment function
of_WindowState function

N_cst_conversion includes precoded object functions:

of_Boolean	of_OSType
of_Button	of_SQLPreviewType
of_Date	of_String
of_DWItemStatus	of_Time
of_Icon	of_ToolbarAlignment
of_Integer	of_WindowState

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_Boolean function (n_cst_conversion)

{button Object,JI(`>main',`cbbebegb')} {button Examples,JI(`>Examples',`id_pfcoref_1807')}

Description

Returns a boolean representation of the passed integer or string.

Access

Public

Syntax

instancename.**of_Boolean** (*stringorint*)

Argument	Description
instancename	Instance name of n_cst_conversion
stringorint	String or integer to be converted to a boolean value

Return value

Boolean. Returns values as follows:

- **If *stringorint* is an integer** Returns TRUE if *stringorint* is 1, FALSE if *stringorint* is 0, and NULL if *stringorint* is any other value or NULL.
- **If *stringorint* is a string** Returns TRUE if *stringorint* is true, t, yes, y, or 1. Returns FALSE if

stringorint is false, f, no, n or 0. This function returns NULL if *stringorint* is any other value or NULL.

Usage

Call this function to convert a string or integer to a boolean value.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_Boolean function (n_cst_conversion)

This example calls the of_Boolean function to convert an INI file value to a boolean. It assumes an inv_conversion instance variable:

```
String    ls_fulltext

Boolean   lb_fulltext

ls_fulltext = ProfileString &
        (gnv_app.of_GetUserIniFile(), &
       "Display", "FullText", "Yes")
lb_fulltext = &
        inv_conversion.of_Boolean(ls_fulltext)
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_Button function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1809')}
```

Description

Converts a string value to a Button enumerated data type.

Access

Public

Syntax

instancename.**of_Button** (*string*, *button*)

Argument	Description
instancename	Instance name of n_cst_conversion
string	String or integer to be converted to a button. *String* must be one of the following: OK OKCancel YesNo YesNoCancel RetryCancel AbortRetryIgnore
button	Button enumerated data type to contain the converted string (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The error service calls this function to convert error message properties into the buttons displayed on message boxes.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_Button function (n_cst_conversion)

This example calls the of_Button function:

```
...

IF ll_row > 0 THEN
        inv_conversion.of_Button &
       (ids_messages.object.button[ll_row], &
       inv_errorpass.ie_buttonstyle)
        inv_conversion.of_Icon &
       (ids_messages.object.icon[ll_row], &
       inv_errorpass.ie_icon)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_Date function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1811')}
```

Description

Converts a string value in date or datetime format to a date data type.

Access

Public

Syntax

instancename.**of_Date** (*string*)

Argument	Description
instancename	Instance name of n_cst_conversion
string	String in date or datetime format to be converted to a date data type

Return value

Date. Returns a date if the function succeeds, 1900-01-01if *string* is an invalid date or datetime, and NULL if *string* is NULL.

Usage

Compare this function with the PowerScript function, which requires a string containing a date value as the argument.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Date function (n_cst_conversion)

This example calls the of_Date function:

```
String    ls_datetimeval = "07/28/71 12:35:14"

Date      ld_date
Time      ltm_time
n_cst_conversion   lnv_conversion

ld_date = lnv_conversion.of_Date(ls_datetimeval)
ltm_time = lnv_conversion.of_Time(ls_datetimeval)
...
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_DWItemStatus function (n_cst_conversion)

{button Object,JI(`>main',`cbbebegb')} {button Examples,JI(`>Examples',`id_pfcoref_1813')}

Description

Converts a string value to a dwItemStatus enumerated data type.

Access

Public

Syntax

instancename.**of_DWItemStatus** (*originalvalue*, *dwitemstatus*)

Argument	Description
instancename	Instance name of n_cst_conversion
originalvalue	String to be converted to the dwItemStatus enumerated data type. Valid values are: DataModified New NewModified NotModified
dwitemstatus	DWItemStatus enumerated data type to contain the converted string (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if *originalvalue* is not a valid value, and NULL if *originalvalue* is NULL.

Usage

The DataWindow Properties dialog box calls this function to convert a string to a DWItemStatus enumerated data type.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_DWItemStatus function (n_cst_conversion)

This example calls the of_DWItemStatus function:

```
Integer   li_rc

Long   ll_currow
String   ls_desiredstatus
dwItemStatus le_desiredstatus
n_cst_conversion lnv_conversion
```

```
ll_currow = dw_requestorview.GetRow()
IF ll_currow > 0 THEN
   ls_desiredstatus = "NotModified"
   li_rc = lnv_conversion.of_DWItemStatus  &
      (ls_desiredstatus, le_desiredstatus)
...
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_Icon function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1815')}
```

Description

Converts a string value to an Icon enumerated data type.

Access

Public

Syntax

instancename.**of_Icon** (*string*, *icon*)

Argument	Description
instancename	Instance name of n_cst_conversion
string	String or integer to be converted to an icon. *String* must be one of the following: None Question Information StopSign Exclamation
icon	Icon enumerated data type to contain the converted string (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The error service calls this function to convert error message properties into the icons displayed on message boxes.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_Icon function (n_cst_conversion)

This example calls the of_Icon function:

```
...

IF ll_row > 0 THEN
        inv_conversion.of_Button &
       (ids_messages.object.button[ll_row], &
       inv_errorpass.ie_buttonstyle)
```

```
         inv_conversion.of_Icon &
        (ids_messages.object.icon[ll_row], &
        inv_errorpass.ie_icon)
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_Integer function (n_cst_conversion)

{button Object,JI(`>main',`cbbebegb')} {button Examples,JI(`>Examples',`id_pfcoref_1817')}

Description

Converts a boolean argument to an integer value (converts TRUE to 1 and FALSE to 0).

Access

Public

Syntax

instancename.**of_Integer** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_conversion
boolean	Boolean to be converted to an integer

Return value

Integer. Returns 1 if *boolean* is TRUE and 0 if *boolean* is FALSE.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_Integer function (n_cst_conversion)

This example calls of_Integer to convert a boolean value to an integer (assuming an inv_conversion instance variable):

```
Integer   li_boolean


li_boolean = inv_conversion.of_Integer &
        (cbx_minimize.Checked)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_OSType function (n_cst_conversion)

{button Object,JI(`>main',`cbbebegb')} {button Examples,JI(`>Examples',`id_pfcoref_1819')}

Description

Converts a string value to an OSTypes enumerated data type.

Access

Public

Syntax

instancename.**of_OSType** (*originalvalue*, *ostype*)

Argument	Description

instancename	Instance name of n_cst_conversion
originalvalue	String to be converted to the OSType enumerated data type. Valid values are: AIX HPUX Macintosh (obsolete) OSF1 (obsolete) SOL2 Windows WindowsNT
ostype	OSTypes variable into which the function returns the value (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if *originalvalue* is not a valid value, and NULL if *originalvalue* is NULL.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_OSType function (n_cst_conversion)

This example calls the of_OSType function:

```
OSTypes  lost_type

String   ls_original
Integer  li_return
n_cst_conversion  lnv_conversion

ls_original = "Windows"
li_return = lnv_conversion.of_OSType  &
 (ls_original, lost_type)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SQLPreviewType function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1821')}
```

Description

Converts a string value to the SQLPreviewType enumerated data type.

Access

Public

Syntax

instancename.**of_SQLPreviewType** (*originalvalue*, *sqlpreview*)

Argument	Description
instancename	Instance name of n_cst_conversion
originalvalue	String to be converted to the SQLPreviewType enumerated data type. Valid values are: Insert

	Update Delete Retrieve
sqlpreview	SQLPreviewType variable into which the function returns the value (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if *originalvalue* is not a valid value, and NULL if *originalvalue* is NULL.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_SQLPreviewType function (n_cst_conversion)

This example calls the of_SQLPreviewType function:

```
SQLPreviewType   lsql_type

String    ls_statement

ls_statement = "Insert"
inv_conversion.of_SQLPreviewType &
   (ls_statement, lsql_type)
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_String function (n_cst_conversion)

{button Object,JI(`>main',`cbbebegb')}

Converts various data types to a string. There are two syntaxes, depending on the original data type:

To	Use
Convert a boolean to a string	Syntax 1
Convert SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes to a string	Syntax 2

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

Syntax 1 To convert a boolean to a string

Syntax 1 To convert a boolean to a string

{button Examples,JI(`>Examples',`id_pfcoref_1824')}

Description

Creates a string from a boolean.

Access

Public

Syntax

instancename.**of_String** (*boolean* {, *returntype* })

Argument	Description
instancename	Instance name of n_cst_conversion
boolean	Boolean value to be converted to a string
returntype (optional)	String specifying how the function formats the return value. Valid values are: • TRUEFALSE Returns TRUE or FALSE (default) • TF Returns T or F • YESNO Returns YES or NO • YN Returns Y or N • ZEROONE Returns 1 or 0

Return value

String. Returns a string corresponding to the passed boolean value. The string's contents vary depending on the *returntype* argument.

Usage

Use Syntax 2 to convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes to a string.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

Syntax 1 To convert a boolean to a string

This example calls the of_String function:

```
Date       ldt_date

Boolean    lb_leapyear

ldt_date = Today( )
lb_leapyear = inv_datetime.of_IsLeapYear(ldt_date)
MessageBox("Leap Year Test", &
        "Leap year = " + &
       inv_conversion.of_String(lb_leapyear,'YESNO'))
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

Syntax 2 To convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes

Syntax 2 To convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes
`{button Examples,JI(`>Examples',`id_pfcoref_1826')}`

Description

Creates a string from a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes enumerated variable.

Access

Public

Syntax

instancename.**of_String** (*input*)

Argument	Description
instancename	Instance name of n_cst_conversion
input	SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes enumerated variable to be converted to a string

Return value

String. Returns values as follows:

- **If *input* is a SQLPreviewType** Returns one of the following values:

  Delete

  Insert

  Retrieve

  Update

  ! (invalid argument)Returns one of the following values:

- **If *input* is a ToolbarAlignment** Returns one of the following values:

  Bottom

  Floating

  Left

  Right

  Top

  ! (invalid argument)

- **If *input* is an Icon** Returns one of the following values:

  None

  Information

  StopSign

  Information

  Exclamation

  ! (invalid argument)

- **If *input* is a Button** Returns one of the following values:

  OK

  OKCancel

  YesNo

  YesNoCancel

  RetryCancel

  AbortRetryIgnore

  ! (invalid argument)

- **If *input* is a DWItemStatus** Returns one of the following values:

  DataModified

  New

  NewModified

  NotModified

  ! (invalid argument)

- **If *input* is a WindowState** Returns one of the following values:

  Maximized

  Minimized

  Normal

  ! (invalid argument)

- **If *input* is an OSTypes** Returns one of the following values:

  AIX

  HPUX

  Macintosh (obsolete)

  OSF1 (obsolete)

  SOL2

  Windows

  WindowsNT

  ! (invalid argument)

Usage

Call this function to convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes enumerated variable to a string.

Use Syntax 1 to convert a boolean to a string.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

Syntax 2 To convert a SQLPreviewType, ToolbarAlignment, Icon, Button, DWItemStatus, WindowState, or OSTypes

This example calls the of_String function to convert a ToolbarAlignment to a string:

```
String     ls_string


ls_string = inv_conversion.of_String &
        (gnv_app.of_GetFrame().ToolbarAlignment)
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_Time function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1828')}
```

Description

Converts a string value in time or datetime format to a time data type.

Access

Public

Syntax

instancename.**of_Time** (*string*)

Argument	Description

instancename	Instance name of n_cst_conversion
string	String in time or datetime format to be converted to a time data type

Return value

Time. Returns a time if the function succeeds, 00:00:00.000000 if *string* is an invalid time or datetime, and NULL if *string* is NULL.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_Time function (n_cst_conversion)

This example calls the of_Time function:

```
String    ls_datetimeval = "07/28/71 12:35:14"

Date      ld_date
Time      ltm_time
n_cst_conversion   lnv_conversion

ld_date = lnv_conversion.of_Date(ls_datetimeval)
ltm_time = lnv_conversion.of_Time(ls_datetimeval)
...
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_ToolbarAlignment function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1830')}
```

Description

Converts a string value to the ToolbarAlignment enumerated data type.

Access

Public

Syntax

instancename.**of_ToolbarAlignment** (*originalvalue*, *toolbaralign*)

Argument	Description
instancename	Instance name of n_cst_conversion
originalvalue	String to be converted to the SQLPreviewType enumerated data type. Valid values are: Bottom Floating Left Right Top
toolbaralign	ToolbarAlignment variable into which the function returns the value (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if *originalvalue* is not a valid value, and NULL if *originalvalue* is NULL.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_ToolbarAlignment function (n_cst_conversion)

This example calls the of_ToolbarAlignment function:

```
ToolbarAlignment   le_alignment

Integer            li_index, li_rc
n_cst_conversion   lnv_conversion

li_index = of_GetListBoxIndex &
        (lb_toolbar.SelectedItem())
IF li_index > 0 THEN
        li_rc = lnv_conversion.of_ToolbarAlignment &
       (This.text, le_alignment)
        IF li_rc = 1 THEN
       istr_toolbar[li_index].e_alignment = &
          le_alignment
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_WindowState function (n_cst_conversion)

```
{button Object,JI(`>main',`cbbebegb')} {button
Examples,JI(`>Examples',`id_pfcoref_1832')}
```

Description

Converts a string value to a WindowState enumerated data type.

Access

Public

Syntax

instancename.**of_WindowState** (*string*, *windowstate*)

Argument	Description
instancename	Instance name of n_cst_conversion
string	String or integer to be converted to a windowstate. *String* must be one of the following: Maximized Minimized Normal
windowstate	WindowState enumerated data type to contain the converted string (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_WindowState function (n_cst_conversion)

This example is from the n_cst_error of_GetError function:

```
WindowState    lws_state

Integer        li_return
n_cst_conversion lnv_conversion

li_return = lnv_conversion.of_WindowState &
        ("maximized", lws_state)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cst_datetime

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1834')}
{button Functions,JI(`>list_win',`id_pfcoref_1835')}
```

Description

Date/time service. This service provides functions that you can call to perform calculations with dates. For example, you can call the of_SecondsAfter function to determine the number of seconds between two date/time values.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use date/time functions:

1 Declare a variable of type n_cst_datetime.

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements:

```
n_cst_datetime    inv_datetime
```

2 Call date/time service functions as needed.

This example assumes an inv_datetime instance variable:

```
Long    ll_seconds, ll_days


ll_seconds = Long(sle_seconds.Text)
ll_days = inv_datetime.of_Days(ll_seconds)

MessageBox("Date/Time", String(ll_seconds) &
            + " seconds is equal to " + &
       String(ll_days) + " days.")
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

n_cst_datetime

n_cst_conversion

n_cst_filesrv

n_cst_numerical

n_cst_platform

n_cst_sql

n_cst_string

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

n_cst_datetime

of_DayOfWeek function

of_Days function

of_FirstDayOfMonth function

of_Gregorian function

of_Hours function

of_IsLeapYear function

of_IsValid function

of_IsWeekDay function

of_IsWeekEnd function

of_Julian function

of_JulianDayNumber function

of_LastDayOfMonth function

of_MilliSecsAfter function

of_MonthName function

of_MonthsAfter function

of_RelativeDateTime function

of_RelativeMonth function

of_RelativeYear function

of_SecondsAfter function

of_Wait function

of_WeekNumber function

of_WeeksAfter function

of_YearsAfter function

N_cst_datetime includes precoded object functions:

of_DayOfWeek
of_Days
of_FirstDayOfMonth
of_Gregorian
of_Hours
of_IsLeapYear
of_IsValid
of_IsWeekDay
of_IsWeekEnd
of_Julian
of_JulianDayNumber
of_LastDayOfMonth
of_MilliSecsAfter
of_MonthName
of_MonthsAfter
of_RelativeDateTime
of_RelativeMonth
of_RelativeYear
of_SecondsAfter
of_Wait
of_WeekNumber
of_WeeksAfter
of_YearsAfter

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_DayOfWeek function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1837')}

Description

Determines the day of the week for the passed date.

Access

Public

Syntax

instancename.**of_DayOfWeek** (*sourcedate*)

Argument	Description
instancename	Instance name of n_cst_datetime
sourcedate	Date variable that contains the day to be determined

Return value

Integer. Returns values, as follows:

1 Sunday

2 Monday

3 Tuesday

4 Wednesday

5 Thursday

6 Friday

7 Saturday

If *sourcedate* is invalid, the function returns -1; if *sourcedate* is NULL, the function returns NULL.

Usage

Call this function to convert a date variable into a weekday.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_DayOfWeek function (n_cst_datetime)

This example calls the of_DayOfWeek function:

```
Date      ldt_date

Integer   li_day
String    ls_days[ ] = &
        {"Sunday", "Monday", "Tuesday", "Wednesday", &
       "Thursday", "Friday", "Saturday"}

ldt_date = Today()
li_day = inv_datetime.of_DayOfWeek(ldt_date)
MessageBox("Convert Date to Day", &
        "Today is " + ls_days[li_day])
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_Days function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1839')}
```

Description

Given the number of seconds, calculates the equivalent number of days.

Access

Public

Syntax

instancename.**of_Days** (*seconds*)

Argument	Description
instancename	Instance name of n_cst_datetime
seconds	Long specifying the number of seconds to be converted to days

Return value

Long. Returns the number of days for *seconds*. If *seconds* is invalid, the function returns -1; if *seconds* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_Days function (n_cst_datetime)

This example calls the of_Days function:

```
Long   ll_seconds, ll_days


ll_seconds = Long(sle_seconds.Text)
ll_days = inv_datetime.of_Days(ll_seconds)
MessageBox("Date/Time", &
        String(ll_seconds) + " seconds is equal to " + &
       String(ll_days) + " days.")
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_FirstDayOfMonth function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1841')}

Description

Given a date, determines the first date of the month.

Access

Public

Syntax

instancename.**of_FirstDayOfMonth** (*sourcedate*)

Argument	Description
instancename	Instance name of n_cst_datetime
sourcedate	Date for which the date of the first day of the month is returned

Return value

Date. Returns the date of the first day of the month. If *sourcedate* is invalid, the function returns 1900-01-01; if *sourcedate* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_FirstDayOfMonth function (n_cst_datetime)

This example calls the of_FirstDayOfMonth function:

```
Date   ldt_date, ldt_firstday


ldt_date = Today( )
ldt_firstday = &
        inv_datetime.of_FirstDayOfMonth(ldt_date)
        MessageBox("First day of the month", &
        "Today is " + String(ldt_date) + &
       " - First day of the month is " + &
          String(ldt_firstday))
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_Gregorian function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1843')}
```

Description

Converts a Julian date to a Gregorian date.

Access

Public

Syntax

instancename.**of_Gregorian** (*juliandate*)

Argument	Description
instancename	Instance name of n_cst_datetime
juliandate	Long containing the Julian date to be converted to Gregorian (the basis for *juliandate* is January 1, 0000)

Return value

Date. Returns the Gregorian date that corresponds to *juliandate*. If *juliandate* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_Gregorian function (n_cst_datetime)

This example calls the of_Gregorian function:

```
Long   ll_julian

Date   ldt_gregorian

ll_julian = Long(sle_julian.Text)
ldt_gregorian = inv_datetime.of_Gregorian &
        (ll_julian)
        MessageBox("Julian to Gregorian", &
       "Julian: " + String(ll_julian) + &
          " is Gregorian: " + String(ldt_gregorian))
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_Hours function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1845')}
```

Description

Converts seconds to hours.

Access

Public

Syntax

instancename.**of_Hours** (*seconds*)

Argument	Description
instancename	Instance name of n_cst_datetime
seconds	Long containing the seconds value to be converted

Return value

Long. Returns the number of hours for *seconds*. If *seconds* is invalid, the function returns -1; if *seconds* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_Hours function (n_cst_datetime)

This example calls the of_Hours function:

```
Long   ll_seconds, ll_hours


ll_seconds = Long(sle_seconds.Text)
ll_hours = inv_datetime.of_Hours(ll_seconds)
MessageBox("Date/Time", &
        String(ll_seconds) + " seconds is equal to " + &
       String(ll_hours) + " hours.")
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_IsLeapYear function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1847')}
```

Description

Determines whether the passed date is in a leap year.

Access

Public

Syntax

instancename.**of_IsLeapYear** (*sourcedate*)

Argument	Description
instancename	Instance name of n_cst_datetime
sourcedate	Date variable containing the date to be tested

Return value

Boolean. Returns TRUE if *sourcedate* is in a leap year, FALSE if it is not, and NULL if it is NULL.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_IsLeapYear function (n_cst_datetime)

This example calls the of_IsLeapYear function:

```
Date       ldt_date

Boolean    lb_leapyear

ldt_date = Today( )
lb_leapyear = inv_datetime.of_IsLeapYear(ldt_date)
MessageBox("Leap Year Test", &
        "Leap year = " + &
       inv_conversion.of_String(lb_leapyear,'YESNO'))
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_IsValid function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1849')}
```

Description

Reports whether a passed argument is a valid date, DateTime, or time.

Access

Public

Syntax

instancename.**of_IsValid** (*source*)

Argument	Description
instancename	Instance name of n_cst_datetime
source	Date, DateTime, or Time value to be tested

Return value

Boolean. Returns TRUE if *source* is a valid date, DateTime, or time; FALSE if it is not; and NULL if *source* is NULL.

Usage

Call this function to ensure valid data before updating the database or calling functions.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_IsValid function (n_cst_datetime)

This example calls the of_IsValid function:

```
Boolean    lb_valid


lb_valid = &
        inv_datetime.of_IsValid(sle_date.Text)
IF NOT lb_valid THEN
        MessageBox("Date/Time", &
```

```
        sle_date.text + " is not a valid date")
END IF
```

Date function always returns valid date If you cast the user-entered string to Date format (`Date (sle_date.Text)`), the of_IsValid function will always return true. This is because Date will return 1900-01-01 for any invalid date.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_IsWeekDay function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1851')}

Description

Determines if a passed date is a weekday.

Access

Public

Syntax

instancename.**of_IsWeekDay** (*source*)

Argument	Description
instancename	Instance name of n_cst_datetime
source	Date variable to be tested

Return value

Boolean. Returns TRUE if *source* is a weekday, FALSE if it is not, and NULL if *source* is NULL.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_IsWeekDay function (n_cst_datetime)

This example calls the of_IsWeekDay function:

```
Date       ldt_date

Boolean    lb_weekday

ldt_date = Today()
lb_weekday = inv_datetime.of_IsWeekDay(ldt_date)
IF lb_weekday THEN
        MessageBox("Weekday Test", String(ldt_date) &
       + " is a weekday")
ELSE
        MessageBox("Weekday Test", String(ldt_date) &
       + " is not a weekday")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_IsWeekEnd function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1853')}

Description

Determines if a passed date is on a weekend.

Access

Public

Syntax

instancename.**of_IsWeekEnd** (*source*)

Argument	Description
instancename	Instance name of n_cst_datetime
source	Date variable to be tested

Return value

Boolean. Returns TRUE if *source* is on a weekend, FALSE if it is not, and NULL if *source* is NULL.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_IsWeekEnd function (n_cst_datetime)

This example calls the of_IsWeekEnd function:

```
Date      ldt_date

Boolean   lb_weekend

ldt_date = Today( )
lb_weekend = inv_datetime.of_IsWeekEnd(ldt_date)
IF lb_weekend THEN
        MessageBox("Weekend Test", String(ldt_date) &
       + " is a weekend")
ELSE
        MessageBox("Weekend Test", String(ldt_date) &
       + " is not a weekend")
END IF
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_Julian function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1855')}
```

Description

Converts a Gregorian date to a Julian date.

Access

Public

Syntax

instancename.**of_Julian** (*gregoriandate*)

Argument	Description
instancename	Instance name of n_cst_datetime
gregoriandate	Date containing the Gregorian date to be converted to Julian (the basis for *gregoriandate* is January 1, 0000)

Return value

Long. Returns the Julian date that corresponds to *gregoriandate*. If *gregoriandate* is invalid, the function returns -1; if it is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Julian function (n_cst_datetime)

This example calls the of_Julian function:

```
Date    ldt_gregorian

Long    ll_julian

ldt_gregorian = Today( )
ll_julian = inv_datetime.of_Julian &
        (ldt_gregorian)
        MessageBox("Gregorian to Julian", &
       "Gregorian: " + String(ldt_gregorian) + &
          " is Julian: " + String(ll_julian))
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_JulianDayNumber function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1857')}
```

Description

Given a date, this function determines the day number, within the current year.

Access

Public

Syntax

instancename.**of_JulianDayNumber** (*source*)

Argument	Description
instancename	Instance name of n_cst_datetime
source	Date for which day number is returned

Return value

Long. Returns the day number within the current year.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_JulianDayNumber function (n_cst_datetime)

This example calls the of_JulianDayNumber function:

```
Date    ldt_gregorian
```

```
Long   ll_julian

ldt_gregorian = Today( )
ll_julian = inv_datetime.of_JulianDayNumber &
        (ldt_gregorian)
        MessageBox("Gregorian to Julian", &
       "Gregorian: " + String(ldt_gregorian) + &
          " is day number: " + String(ll_julian))
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_LastDayOfMonth function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1859')}

Description

Given a date, this function determines the last date of the date's month.

Access

Public

Syntax

instancename.**of_LastDayOfMonth** (*sourcedate*)

Argument	Description
instancename	Instance name of n_cst_datetime
sourcedate	Date for which the date of the last day of the month is returned

Return value

Date. Returns the date of the last day of the month. If *sourcedate* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_LastDayOfMonth function (n_cst_datetime)

This example calls the of_LastDayOfMonth function:

```
Date   ldt_date, ldt_lastday


ldt_date = Today( )
ldt_lastday = &
        inv_datetime.of_LastDayOfMonth(ldt_date)
MessageBox("Last day of the month", &
        "Today is " + String(ldt_date) + &
       " - Last day of the month is " + &
          String(ldt_lastday) )
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_MilliSecsAfter function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1861')}
```

Description

Calculates the number of milliseconds between two times.

Access

Public

Syntax

instancename.**of_MilliSecsAfter** (*starttime*, *endtime*)

Argument	Description
instancename	Instance name of n_cst_datetime
starttime	Time variable containing the starting time
endtime	Time variable containing the ending time

Return value

Long. Returns the number of milliseconds between *starttime* and *endtime*. If *endtime* is less than *starttime*, this value is negative. If either argument is NULL, the function returns a NULL.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_MilliSecsAfter function (n_cst_datetime)

This example calls the of_MilliSecsAfter function:

```
Time   lt_start, lt_finish


Long   ll_between, ll_loop, ll_count

lt_start = Now( )
For ll_loop = 1 to 10000
        ll_count++
NEXT
lt_finish = Now( )
ll_between = inv_datetime.of_MilliSecsAfter &
        (lt_start, lt_finish)
        MessageBox("Date/Time", String(ll_between) &
       + " millisecs between " + String(lt_start) &
          + " and " + String(lt_finish) )
```

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_MonthName function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1863')}
```

Description

Given the month number or a date, calculates the month name.

Access

Public

Syntax

instancename.**of_MonthName** (*numberordate*)

Argument	Description
instancename	Instance name of n_cst_datetime
numberordate	Date variable or month number for which the function returns the month name

Return value

String. Returns the month name.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_MonthName function (n_cst_datetime)

This example calls the of_MonthName function:

```
Date   ldt_date

String ls_name
n_cst_datetime lnv_datetime

ldt_date = Today()

ls_name = lnv_datetime.of_MonthName &
        (ldt_date)
MessageBox("Date/Time", ls_name)
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_MonthsAfter function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1865')}
```

Description

Calculates the number of whole months between two dates.

Access

Public

Syntax

instancename.**of_MonthsAfter** (*startdate*, *enddate*)

Argument	Description
instancename	Instance name of n_cst_datetime
startdate	Date variable containing the start date
enddate	Date variable containing the end date

Return value

Long. Returns the number of months between *startdate* and *enddate*. If *enddate* is less than *startdate*, this value is negative. If either argument is NULL or invalid, the function returns a NULL.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_MonthsAfter function (n_cst_datetime)

This example calls the of_MonthsAfter function:

```
Date   ldt_start, ldt_finish

Long   ll_between

ldt_start = Date(sle_startmonth.text)
ldt_finish = Date(sle_endmonth.text)

ll_between = inv_datetime.of_MonthsAfter &
        (ldt_start, ldt_finish)
MessageBox("Date/Time", String(ll_between) &
        + " months between " + sle_startmonth.text &
       + " and " + sle_endmonth.text )
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_RelativeDateTime function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1867')}
```

Description

Determines a date/time relative to a given DateTime.

Access

Public

Syntax

instancename.**of_RelativeDateTime** (*start*, *offset*)

Argument	Description
instancename	Instance name of n_cst_datetime
start	Datetime variable that the function uses as the starting point
offset	Long representing the number of seconds between *start* and the returned relative date/time (can be either positive or negative)

Return value

Datetime. Returns the date/time *offset* number of seconds before or after *start*. If *start* is invalid, the function returns 1900-01-01; if *start* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_RelativeDateTime function (n_cst_datetime)

This example calls the of_RelativeDateTime function:

```
Datetime   ldtm_start, ldtm_new
```

```
Long       ll_between

ldtm_start = DateTime(Today( ), Now( ) )
ll_between = Long(sle_relative.text)

ldtm_new = inv_datetime.of_RelativeDateTime &
        (ldtm_start, ll_between)
MessageBox("Date/Time", String(ldtm_new) &
        + " is " + sle_relative.text &
       + " seconds before/after " + string(ldtm_start))
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_RelativeMonth function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1869')}
```

Description

Calculates a date, plus or minus a given number of months from a given date. For example, three months from 6/13/97 is 9/13/97.

Access

Public

Syntax

instancename.**of_RelativeMonth** (*start*, *offset*)

Argument	Description
instancename	Instance name of n_cst_datetime
start	Date variable that the function uses as the starting point
offset	Long representing the number of months between *start* and the returned relative date (can be either positive or negative)

Return value

Date. Returns a date the specified number of months before or after *start*. If *start* is invalid, the function returns 1900-01-01; if *start* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_RelativeMonth function (n_cst_datetime)

This example calls the of_RelativeMonth function:

```
Date   ldt_start, ldt_new


Long   ll_between

ldt_start = Today( )
ll_between = Long(sle_relative.text)

ldt_new = inv_datetime.of_RelativeMonth &
        (ldt_start, ll_between)
MessageBox("Date/Time", String(ldt_new) &
        + " is " + sle_relative.text &
       + " months before/after " + string(ldt_start )
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_RelativeYear function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1871')}
```

Description

Calculates a date, plus or minus a given number of years from a given date. For example, three years from 6/13/97 is 6/13/00.

Access

Public

Syntax

instancename.**of_RelativeYear** (*start*, *offset*)

Argument	Description
instancename	Instance name of n_cst_datetime
start	Date variable that the function uses as the starting point
offset	Long representing the number of years between *start* and the returned relative date (can be either positive or negative)

Return value

Date. Returns a date the specified number of years before or after *start*. If *start* is invalid, the function returns 1900-01-01; if *start* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_RelativeYear function (n_cst_datetime)

This example calls the of_RelativeYear function. It assumes an inv_datetime instance variable:

```
Date   ldt_start, ldt_new

Long   ll_between

ldt_start = Today( )
ll_between = Long(sle_relative.text)

ldt_new = inv_datetime.of_RelativeYear &
        (ldt_start, ll_between)
MessageBox("Date/Time", String(ldt_new) &
        + " is " + sle_relative.text &
       + " years before/after " + string(ldt_start))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_SecondsAfter function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1873')}
```

Description

Calculates the number of seconds between two date/times.

Access

Public

Syntax

instancename.**of_SecondsAfter** (*starttime*, *endtime*)

Argument	Description
instancename	Instance name of n_cst_datetime
starttime	Datetime variable containing the starting time
endtime	Datetime variable containing the ending time

Return value

Long. Returns the number of seconds between *starttime* and *endtime*. If *endtime* is less than *starttime*, this value is negative. If either argument is NULL or invalid, the function returns a NULL.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SecondsAfter function (n_cst_datetime)

This example calls the of_SecondsAfter function:

```
Datetime   ldtm_start, ldtm_finish

Long       ll_between, ll_loop, ll_count

ldtm_start = DateTime(Today( ), Now( ) )
For ll_loop = 1 to 100000
        ll_count++
NEXT
ldtm_finish = DateTime(Today( ), Now( ) )
ll_between = inv_datetime.of_SecondsAfter &
        (ldtm_start, ldtm_finish)
        MessageBox("Date/Time", String(ll_between) &
       + " seconds between " + String(ldtm_start) &
          + " and " + String(ldtm_finish) )
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_Wait function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')}
```

Stops processing temporarily. There are two syntaxes:

To	Use
Wait until a specified date/time	Syntax 1
Wait a specified number of seconds	Syntax 2

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

Syntax 1 Wait until a specified date/time

Syntax 1 Wait until a specified date/time

{button Examples,JI(`>Examples',`id_pfcoref_1876')}

Description

Stops processing until a specified date/time is reached.

Access

Public

Syntax

instancename.**of_Wait** (*waituntil*)

Argument	Description
instancename	Instance name of n_cst_datetime
waituntil	Datetime variable that must be reached before processing will continue

Return value

Integer. Returns 1 when the wait finishes, -1 if *waituntil* is invalid, or NULL if *waituntil* is NULL.

Usage

Use Syntax 2 to wait a specified number of seconds.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

Syntax 1 Wait until a specified date/time

This example calls the of_Wait function. It assumes an inv_datetime instance variable:

```
Datetime   ldtm_start, ldtm_wait


Long       ll_wait
Integer    li_return

ldtm_start = DateTime(Today( ), Now( ) )
ll_wait = Long(sle_wait.text)
ldtm_wait = inv_datetime.of_RelativeDateTime &
        (ldtm_start, ll_wait)
gnv_app.of_GetFrame( ).SetMicroHelp &
        ("Begin wait: " + String(Now()))
li_return = inv_datetime.of_Wait(ldtm_wait)
gnv_app.of_GetFrame().SetMicroHelp("End wait: " &
        + String(Now ()))
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

Syntax 2 Wait a specified number of seconds

Syntax 2 Wait a specified number of seconds

{button Examples,JI(`>Examples',`id_pfcoref_1878')}

Description

Stops processing for a specified number of seconds.

Access

Public

Syntax

instancename.**of_Wait** (*waitseconds*)

Argument	Description
instancename	Instance name of n_cst_datetime
waitseconds	UnsignedLong specifying the number of seconds to wait

Return value

Integer. Returns 1 when the wait finishes, -1 if *waituntil* is invalid, and NULL if *waituntil* is NULL.

Usage

Use Syntax 1 to wait until a specified date/time.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

Syntax 2 Wait a specified number of seconds

This example calls the of_Wait function. It assumes an inv_datetime instance variable:

```
Datetime   ldtm_start, ldtm_wait


Long       ll_wait
Integer    li_return

ll_wait = Long(sle_wait.text)
gnv_app.of_GetFrame( ).SetMicroHelp("Begin wait: " &
        + String(Now()))
li_return = inv_datetime.of_Wait(ll_wait)
gnv_app.of_GetFrame().SetMicroHelp("End wait: " &
        + String(Now ()))
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_WeekNumber function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1880')}
```

Description

Calculates the whole weeks between the first day of the year and the specified date.

Access

Public

Syntax

instancename.**of_WeekNumber** (*date*)

Argument	Description
instancename	Instance name of n_cst_datetime
date	Date variable containing the date for which the week number is returned

Return value

Long. Returns the number of whole weeks between the first day of the year and the specified date. If *date* is invalid, the function returns -1; if *date* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_WeekNumber function (n_cst_datetime)

This example calls the of_WeekNumber function. It assumes an inv_datetime instance variable:

```
Date    ldt_date

Long    ll_weeknumber

ldt_date = Today()
ll_weeknumber = inv_datetime.of_WeekNumber(ldt_date)
MessageBox("Week Number", String(ldt_date) &
        + " is week number " + String(ll_weeknumber) )
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_WeeksAfter function (n_cst_datetime)

```
{button Object,JI(`>main',`cbbecheb')} {button
Examples,JI(`>Examples',`id_pfcoref_1882')}
```

Description

Calculates the number of whole weeks between two dates.

Access

Public

Syntax

instancename.**of_WeeksAfter** (*startdate*, *enddate*)

Argument	Description
instancename	Instance name of n_cst_datetime
startdate	Date variable containing the start date
enddate	Date variable containing the end date

Return value

Long. Returns the number of weeks between *startdate* and *enddate*. If *enddate* is less than *startdate*, this value is negative; if either argument is NULL or invalid, the function returns a NULL.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_WeeksAfter function (n_cst_datetime)

This example calls the of_WeeksAfter function. It assumes an inv_datetime instance variable:

```
Date    ldt_start, ldt_finish

Long    ll_between
```

```
ldt_start = Date(sle_startweek.text)
ldt_finish = Date(sle_endweek.text)

ll_between = inv_datetime.of_WeeksAfter &
        (ldt_start, ldt_finish)
MessageBox("Date/Time", String(ll_between) &
        + " weeks between " + sle_startweek.text &
       + " and " + sle_endweek.text )
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_YearsAfter function (n_cst_datetime)

{button Object,JI(`>main',`cbbecheb')} {button Examples,JI(`>Examples',`id_pfcoref_1884')}

Description

Calculates the number of whole years between two dates.

Access

Public

Syntax

instancename.**of_YearsAfter** (*startdate*, *enddate*)

Argument	Description
instancename	Instance name of n_cst_datetime
startdate	Date variable containing the start date
enddate	Date variable containing the end date

Return value

Long. Returns the number of years between *startdate* and *enddate*. If *enddate* is less than *startdate*, this value is negative; if either argument is NULL or invalid, the function returns a NULL.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_YearsAfter function (n_cst_datetime)

This example calls the of_YearsAfter function. It assumes an inv_datetime instance variable:

```
Date   ldt_start, ldt_finish

Long   ll_between

ldt_start = Date(sle_startdate.text)
ldt_finish = Date(sle_enddate.text)
ll_between = inv_datetime.of_YearsAfter &
        (ldt_start, ldt_finish)
MessageBox("Date/Time", String(ll_between) &
         " years between " + sle_startdate.text &
       + " and " + sle_enddate.text )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

n_cst_debug

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1886')}
{button Functions,JI(`>list_win',`id_pfcoref_1891')} {button
Events,JI(`>list_win',`id_pfcoref_1888')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1887')}
```

Description

Debugging object. This object includes:

- The reference variable for the SQL SPY debugging service
- A function to enable or disable the DataWindow Properties window
- Log window capabilities

When this object is instantiated, PFC displays debugging messages in certain situations.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_sqlspy

n_ds

u_dw

w_debuglog

Usage

To use this object:

1 Enable the debugging service by calling the n_cst_appmanager of_SetDebug function:

```
gnv_app.of_SetDebug(TRUE)
```

Once enabled, the service captures all entries to the log, even if you don't open the w_debuglog window.

2 (Optional) Enable the SQL Spy service by calling the n_cst_debug of_SetSQLSpy function:

```
gnv_app.inv_debug.of_SetSQLSpy(TRUE)
```

3 (Optional) Log debugging messages:

```
gnv_app.inv_debug.of_Message &

                ("Opening window w_test")
```

4 (Optional) Display logged messages:

```
gnv_app.inv_debug.of_OpenLog(TRUE)
```

5 (Optional) Enable the DataWindow Properties window by calling the n_cst_debug of_SetDWProperty function:

```
gnv_app.inv_debug.of_SetDWProperty(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

n_cst_debug

n_cst_appmanager

n_cst_error

Created with the Personal Edition of HelpNDoc: Free Kindle producer

n_cst_debug

{button Functions,JI(`>list_win',`id_pfcoref_1891')} {button Events,JI(`>list_win',`id_pfcoref_1888')}

N_cst_debug includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_alwaysontop	Specifies whether the service displays the debug window on top of other windows	Boolean	Protected	Call of_SetAlwaysOnTop and of_GetAlwaysOnTop to access
PFC_BUILD_DATE	Build date	Date	Public	Informational
PFC_FIXES	PFC revision level	Integer	Public	Informational
PFC_MAJOR	PFC major revision level	Integer	Public	Informational
PFC_MINOR	PFC minor revision	Integer	Public	Informational
PFC_NAME	PFC title	String	Public	Informational
PFC_BUILD_TIME	Build time	Time	Public	Informational

ids_debuglog	DataStore containing the debug log	n_ds	Public	Used by w_debuglog to display debugging messages
inv_sqlspy	Reference to SQL Spy debugging object	n_cst_sqlspy	Public	Internal

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

n_cst_debug

{button Functions,JI(`>list_win',`id_pfcoref_1891')} {button Instance variables,JI(`>list_win',`id_pfcoref_1887')}

Constructor event

Destructor event

N_cst_debug includes precoded events:

Constructor

Destructor

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

Constructor event (n_cst_debug)

{button Object,JI(`>main',`cbbbdaijx')}

Description

Creates an instance of ids_debuglog.

Usage

This event enables the debug log.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

Destructor event (n_cst_debug)

{button Object,JI(`>main',`cbbbdaijx')}

Description

Performs clean up.

Usage

This event destroys all objects used by the debugging service.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

n_cst_debug

{button Events,JI(`>list_win',`id_pfcoref_1888')} {button Instance variables,JI(`>list_win',`id_pfcoref_1887')}

of_ClearLog function

of_GetAlwaysOnTop function

of_IsLogOpen function

of_Message function

of_OpenLog function

of_PrintLog function

of_SetAlwaysOnTop function

of_SetDWProperty function

of_SetSQLSpy function

N_cst_debug includes precoded functions:

of_ClearLog
of_GetAlwaysOnTop
of_IsLogOpen
of_Message
of_OpenLog
of_PrintLog
of_SetAlwaysOnTop
of_SetDWProperty
of_SetSQLSpy

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_ClearLog function (n_cst_debug)

{button Object,JI(`>main',`cbbbdaijx')} {button Examples,JI(`>Examples',`id_pfcoref_1893')}

Description

Clears all data from the ids_debuglog DataStore.

Access

Public

Syntax

instancename.**of_ClearLog** ( )

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The w_debuglog window calls this function to clear the debugging log.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_ClearLog function (n_cst_debug)

This example is from the w_debuglog cb_clear Clicked event:

```
gnv_app.inv_debug.of_ClearLog()
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetAlwaysOnTop function (n_cst_debug)

{button Object,JI(`>main',`cbbbdaijx')} {button Examples,JI(`>Examples',`id_pfcoref_1895')}

Description

Reports whether the w_debuglog window always displays on top of other windows.

Access

Public

Syntax

instancename.**of_GetAlwaysOnTop** ( )

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)

Return value

Boolean. Returns TRUE if the w_debuglog window is always on top and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetAlwaysOnTop function (n_cst_debug)

This example calls the of_GetAlwaysOnTop function:

```
Boolean   ib_ontop


ib_ontop = gnv_app.inv_debug.of_GetAlwaysOnTop()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_IsLogOpen function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1897')}
```

Description

Reports whether the w_debuglog window is currently open.

Access

Public

Syntax

instancename.**of_IsLogOpen** ( )

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)

Return value

Boolean. Returns TRUE if the w_debuglog window is open and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_IsLogOpen function (n_cst_debug)

This example calls the of_IsLogOpen function:

```
Boolean    ib_open


ib_open = gnv_app.inv_debug.of_IsLogOpen()
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_Message function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1899')}
```

Description

Adds an entry to the debug log.

Access

Public

Syntax

instancename.**of_Message** (*message*)

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)
message	String containing the text to be added to the debug log

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_Message function (n_cst_debug)

This example calls the of_Message function:

```
Integer    li_return


li_return = gnv_app.inv_debug.of_Message &
        ("Login Error for: " + gnv_app.of_GetUserID())
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_OpenLog function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1901')}
```

Description

Opens or closes the w_debuglog window.

Access

Public

Syntax

instancename.**of_OpenLog** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)
boolean	Boolean specifying whether to open (TRUE) or close (FALSE) the w_debuglog window

Return value

Integer. Returns the value of the PowerScript Open or Close function if the function succeeds or -1 if any argument's value is NULL.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_OpenLog function (n_cst_debug)

This example calls the of_OpenLog function:

```
gnv_app.inv_debug.of_OpenLog(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_PrintLog function (n_cst_debug)

{button Object,JI(`>main',`cbbbdaijx')} {button Examples,JI(`>Examples',`id_pfcoref_1903')}

Description

Prints the debug log.

Access

Public

Syntax

instancename.**of_PrintLog** ( )

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_PrintLog function (n_cst_debug)

This example calls the of_PrintLog function:

```
Integer   li_return


li_return = gnv_app.inv_debug.of_PrintLog()

IF li_return = -1 THEN
        MessageBox("Debug Log", "Error printing log")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("Log printed successfully")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_SetAlwaysOnTop function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1905')}
```

Description

Controls whether the w_debuglog window always displays on top of other windows.

Access

Public

Syntax

instancename.**of_SetAlwaysOnTop** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)
boolean	Boolean indicating whether to always display w_debuglog on top of other windows (TRUE) or to let other windows display on top of w_debuglog (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetAlwaysOnTop function (n_cst_debug)

This example calls the of_SetAlwaysOnTop function:

```
...
```

```
gnv_app.inv_debug.of_SetAlwaysOnTop(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_SetDWProperty function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1907')}
```

Description

Enables or disables display of the DataWindow Properties window.

Access

Public

Syntax

instancename.**of_SetDWProperty** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)
boolean	Boolean indicating whether to enable (TRUE) or disable (FALSE) display of the DataWindow Properties window

Return value

Integer. Returns 1 if the function succeeds, 0 if no action is taken, and -1 if an error occurs.

Usage

While running an application, you display the DataWindow Properties window by right-clicking over a DataWindow and selecting DataWindow Properties from the popup menu.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetDWProperty function (n_cst_debug)

This example calls the of_SetDWProperty function:

```
gnv_app.of_SetDebug(TRUE)

gnv_app.inv_debug.of_SetDWProperty(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetSQLSpy function (n_cst_debug)

```
{button Object,JI(`>main',`cbbbdaijx')} {button
Examples,JI(`>Examples',`id_pfcoref_1909')}
```

Description

Starts or stops the SQL Spy service.

Access

Public

Syntax

instancename.**of_SetSQLSpy** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_debug (the n_cst_appmanager default for this is inv_debug)
boolean	Boolean indicating whether to start (TRUE) or stop (FALSE) the SQL Spy service

Return value

Integer. Returns 1 if the function succeeds, 0 if no action is taken, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetSQLSpy function (n_cst_debug)

This example calls the of_SetSQLSpy function:

```
gnv_app.of_SetDebug(TRUE)

gnv_app.inv_debug.of_SetSQLSpy(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_cst_dropdown

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1911')}
{button Functions,JI(`>list_win',`id_pfcoref_1913')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1912')}
```

Description

Dropdown service. The u_calculator and u_calendar objects use this object to control dropdown behavior when used with DataWindow columns and EditMasks.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

PFC objects use this object to control dropdown behavior. For usage information, see u_calculator and u_calendar.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

n_cst_dropdown

u_calculator

u_calendar

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

n_cst_dropdown

{button Functions,JI(`>list_win',`id_pfcoref_1913')}

N_cst_dropdown includes instance variables:

Instance variable	Description	Data type	Access	Usage
iu_requestor	Requester object	UserObject	Protected	Control associated with this instance of the dropdown service
DWSTYLE_BOX	Constant set to 1	Integer	Protected	Internal
DWSTYLE_SHADOWBOX	Constant set to 2	Integer	Protected	Internal
DWSTYLE_LOWERED	Constant set to 3	Integer	Protected	Internal
DWSTYLE_RAISED	Constant set to 4	Integer	Protected	Internal
STYLE_BOX	Constant set to 5	Integer	Protected	Internal
STYLE_SHADOWBOX	Constant set to 6	Integer	Protected	Internal
STYLE_LOWERED	Constant set to 7	Integer	Protected	Internal
STYLE_RAISED	Constant set to 8	Integer	Protected	Internal
DW_HSPLITBAR_WIDTH	Constant set to 9	Integer	Protected	Internal
TAB_BORDER	Constant set to 10	Integer	Protected	Internal
MISC_XPOSITION	Constant set to 11	Integer	Protected	Internal
MISC_YPOSITION	Constant set to 12	Integer	Protected	Internal
DWMISC_XPOSITION	Constant set to 13	Integer	Protected	Internal
DWMISC_YPOSITION	Constant set to 14	Integer	Protected	Internal
DWDETAIL_HEIGHT	Constant set to 15	Integer	Protected	Internal
BORDER_CHECK	Constant set to 16	Integer	Protected	Internal

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_dropdown

{button Instance variables,JI(`>list_win',`id_pfcoref_1912')}

of_GetParentPosition function

of_GetParentWindow function

of_GetSystemSetting function

of_Position function

of_SetRequestor function

N_cst_dropdown contains precoded object functions:

of_GetParentPosition	of_Position
of_GetParentWindow	of_SetRequestor
of_GetSystemSetting	

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetParentPosition function (n_cst_dropdown)

{button Object,JI(`>main',`cbbbjdee')} {button Examples,JI(`>Examples',`id_pfcoref_1915')}

Description

Retrieves the x and y coordinates for the parent object in relationship to the window on which it is placed.

Access

Public

Syntax

instancename.**of_GetParentPosition** (*control*, *x*, *y*)

Argument	Description
instancename	Instance name of n_cst_dropdown
control	DragObject whose parent position is returned
x	Integer into which the function places the parent's x coordinate (passed by reference)
y	Integer into which the function places the parent's y coordinate (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Position function calls this function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetParentPosition function (n_cst_dropdown)

This example is from the of_Position function:

```
...

of_GetParentWindow(adrg_object, lw_parent)
IF IsNull(lw_parent) OR NOT IsValid(lw_parent) THEN
   Return -1
END IF
of_GetParentPosition &
   (adrg_object, li_parentx, li_parenty)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_GetParentWindow function (n_cst_dropdown)

```
{button Object,JI(`>main',`cbbbjdee')} {button
Examples,JI(`>Examples',`id_pfcoref_1917')}
```

Description

Retrieves the window containing the current object.

Access

Protected

Syntax

instancename.**of_GetParentWindow** (*control*, *window*)

Argument	Description
instancename	Instance name of n_cst_dropdown
control	DragObject whose window is returned
window	Window variable into which the function places a reference to the window containing *control*. If there is no parent window, this argument returns NULL (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetParentWindow function (n_cst_dropdown)

This example is from the of_Position function:

```
...

of_GetParentWindow (adrg_object, lw_parent)
IF IsNull(lw_parent) OR NOT IsValid(lw_parent) THEN
   Return -1
END IF
of_GetParentPosition &
   (adrg_object, li_parentx, li_parenty)
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetSystemSetting function (n_cst_dropdown)

```
{button Object,JI(`>main',`cbbbjdee')} {button
Examples,JI(`>Examples',`id_pfcoref_1919')}
```

Description

Retrieves the platform-specific setting.

Access

Protected

Syntax

instancename.**of_GetSystemSetting** (*settingtype*)

Argument	Description
instancename	Instance name of n_cst_dropdown
settingtype	Integer or n_cst_dropdown constant specifying the setting to be returned: • **1 or DWSTYLE_BOX** • **2 or DWSTYLE_SHADOWBOX** • **3 or DWSTYLE_LOWERED** • **4 or DWSTYLE_RAISED** • **5 or STYLE_BOX** • **6 or STYLE_SHADOWBOX** • **7 or STYLE_LOWERED** • **8 or STYLE_RAISED** • **9 or DW_HSPLITBAR_WIDTH** • **10 or TAB_BORDER** • **11 or MISC_XPOSITION** • **12 or MISC_YPOSITION** • **13 or DWMISC_XPOSITION** • **14 or DWMISC_YPOSITION** • **15 or DWDETAIL_HEIGHT** • **16 or BORDER_CHECK**

Return value

Integer. Returns the platform-specific setting.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_GetSystemSetting function (n_cst_dropdown)

This example is from the of_GetParentPosition function:

```
...

CHOOSE CASE luo_parent.BorderStyle
CASE StyleBox!
        li_border = of_GetSystemSetting(STYLE_BOX)
CASE StyleShadowBox!
        li_border = &
       of_GetSystemSetting(STYLE_SHADOWBOX)
CASE StyleLowered!
        li_border = &
       of_GetSystemSetting(STYLE_LOWERED)
CASE StyleRaised!
        li_border = &
       of_GetSystemSetting(STYLE_RAISED)
END CHOOSE
```

```
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_Position function (n_cst_dropdown)

{button Object,JI(`>main',`cbbbjdee')} {button Examples,JI(`>Examples',`id_pfcoref_1921')}

Description

Updates the position of the requestor object based on the current position of the passed control.

Access

Public

Syntax

instancename.**of_Position** (*control*, *makevisible*)

Argument	Description
instancename	Instance name of n_cst_dropdown
control	DragObject containing the control used to calculate the new position
makevisible	Boolean indicating whether the dropdown object should be made visible after calculating a new position

Return value

Integer. Returns values as follows:

- 1 Success
- -1 An error occurred
- -2 The requested functionality is not supported
- -3 Unable to calculate a valid position

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_Position function (n_cst_dropdown)

This example from the u_calendar of_DropDown function calls the of_Position function:

```
...

li_rc = inv_dropdown. of_Position &
   (idrg_requestor, FALSE)
IF li_rc < 0 THEN Return -1
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetRequestor function (n_cst_dropdown)

{button Object,JI(`>main',`cbbbjdee')} {button Examples,JI(`>Examples',`id_pfcoref_1923')}

Description

Associates this instance of n_cst_dropdown with a dropdown object (such as u_calendar).

Access

Public

Syntax

instancename.**of_SetRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_cst_dropdown
requestor	UserObject variable containing a reference to the dropdown object to associate with this instance of n_cst_dropdown

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetRequestor function (n_cst_dropdown)

This example calls the of_SetRequestor function:

```
Integer li_rc


IF IsNull (ab_switch) THEN Return -1
  IF ab_switch THEN
    IF IsNull(inv_dropdown) OR NOT &
      IsValid(inv_dropdown) THEN
        inv_dropdown = CREATE n_cst_dropdown
        inv_dropdown.of_SetRequestor(this)
        li_rc = 1
    END IF
  ELSE
    IF IsValid (inv_dropdown) THEN
      DESTROY inv_dropdown
      li_rc = 1
    END IF
  END IF
Return li_rc
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

n_cst_dssrv

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1926')}
{button Descendants,JI(`>list_win',`id_pfcoref_1925')}
```

Description

Base DataStore service object.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Usage

Call the functions in this object to obtain basic information about a DataStore and its contents.

N_cst_dssrv is identical to n_cst_dwsrv, the base DataWindow service object.

For complete information on the instance variables, events, and functions in n_cst_dssrv, see n_cst_dwsrv.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

n_cst_dssrv

n_cst_dssrv_multitable

n_cst_dssrv_printpreview

n_cst_dssrv_report

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_cst_dssrv

n_cst_dwsrv

n_ds

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

n_cst_dssrv_multitable

{button Ancestor,JI(`>main',`cbbdedee')} {button See also,PI(`',`id_pfcoref_1928')}

Description

A collection of functions that facilitate the updating of DataStores that contain rows from more than one table.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Usage

Use this object to handle update of multiple tables within a DataStore.

N_cst_dssrv_multitable is identical to n_cst_dwsrv_multitable, the DataWindow multitable update service object.

For complete information on the instance variables, events, and functions in n_cst_dssrv_multitable, see n_cst_dwsrv_multitable.

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

n_cst_dssrv_multitable

n_cst_dssrv

n_cst_dssrv_printpreview

n_cst_dssrv_report

n_cst_dwsrv_multitable

n_ds

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

n_cst_dssrv_printpreview

{button Ancestor,JI(`>main',`cbbdedee')} {button See also,PI(`',`id_pfcoref_1930')}

Description

Contains functions that allow you to control print preview.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Usage

Use this object to provide print preview functionality for DataStores.

N_cst_dssrv_printpreview is identical to n_cst_dwsrv_printpreview, the DataWindow print preview service object.

For complete information on the instance variables, events, and functions in n_cst_dssrv_printpreview, see n_cst_dwsrv_printpreview.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

n_cst_dssrv_printpreview

n_cst_dssrv

n_cst_dssrv_multitable

n_cst_dssrv_report

n_cst_dwsrv_printpreview

n_ds

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

n_cst_dssrv_report

{button Ancestor,JI(`>main',`cbbdedee')} {button See also,PI(`',`id_pfcoref_1932')}

Description

Contains functions that help you handle report DataStores and their printing.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Usage

Use this service to provide enhanced viewing and printing capabilities to DataStores that contain reports.

N_cst_dssrv_report is identical to n_cst_dwsrv_report, the DataWindow report service object.

For complete information on the instance variables, events, and functions in n_cst_dssrv_report, see n_cst_dwsrv_report.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

n_cst_dssrv_report

n_cst_dssrv

n_cst_dssrv_multitable

n_cst_dssrv_printpreview

n_cst_dwsrv_report

n_ds

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

n_cst_dwcache

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1934')} {button Functions,JI(`>list_win',`id_pfcoref_1938')} {button Events,JI(`>list_win',`id_pfcoref_1936')} {button Instance variables,JI(`>list_win',`id_pfcoref_1935')}

Description

Caching service. This object is designed to contain data used in multiple places within an application. It provides a single data source, eliminating redundant database retrievals.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_ds

n_tr

Usage To use caching:

1 Enable the caching service with the n_cst_appmanager of_SetDwCache function:

```
gnv_app.of_SetDwCache(TRUE)
```

2 Cache data by calling the of_Register function, passing different arguments depending on the data

to be cached:

- To cache rows retrieved from the database via a DataWindow object, pass an identifier, a transaction object, the DataWindow object name, and arguments if any
- To cache rows retrieved from the database via a SQL statement, pass an identifier, a transaction object, and the SQL statement
- To cache rows in an array, pass an identifier, the DataWindow object name, and the data
- To cache rows from a DataWindow control, pass an identifier and the DataWindow control
- To cache rows from a DataStore, pass an identifier and the DataStore instance
- To cache rows from a file, pass an identifier and the filename

3 Call the of_GetRegistered function to access cached data. This example assumes an ids_datastore instance variable:

```
gnv_app.inv_dwcache.of_GetRegistered &

            ("d_emplist", ids_datastore)
ids_datastore.ShareData(dw_emplist)
```

4 Refresh the cache object as needed, by calling of_Refresh.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_dwcacheattrib custom class user object replaces the os_cachelist object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

n_cst_dwcache

n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

n_cst_dwcache

{button Functions,JI(`>list_win',`id_pfcoref_1938')} {button Events,JI(`>list_win',`id_pfcoref_1936')}

N_cst_dwcache includes instance variables:

Instance variable	Description	Data type	Access	Usage
DATAOBJECTDATA	Constant that indicates original data location and refresh functionality	String	Public	Internal
POWEROBJECT	Constant that indicates original data location and refresh functionality	String	Public	Internal
RETRIEVE	Constant that indicates original data location and refresh functionality	String	Public	Internal
inv_cachelist [ ]	Custom class user object containing cached data	n_cst_dwcache attrib	Protected	Internal
DATASTORECONTROL	Constant that indicates original data location and refresh functionality a	String	Public	Internal
DATAWINDOWCONTROL	Constant that indicates original data location and refresh functionality	String	Public	Internal

IMPORTFILE	Constant that indicates original data location and refresh functionality	String	Public	Internal
SQL	Constant that indicates original data location and refresh functionality	String	Public	Internal

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

n_cst_dwcache

{button Functions,JI(`>list_win',`id_pfcoref_1938')} {button Instance variables,JI(`>list_win',`id_pfcoref_1935')}

Destructor event

N_cst_dwcache includes one precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

Destructor event (n_cst_dwcache)

{button Object,JI(`>main',`cbbdbfbe')}

Description

Destroys all cache objects.

Usage

This event destroys all DataStores used by the caching service.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

n_cst_dwcache

{button Events,JI(`>list_win',`id_pfcoref_1936')} {button Instance variables,JI(`>list_win',`id_pfcoref_1935')}

of_GetCount function

of_GetRegistered function

of_IsRegistered function

of_Refresh function

of_Register function

of_RegisterArgs function

of_UnRegister function

N_cst_dwcache includes precoded object functions:

of_GetCount
of_GetRegistered
of_IsRegistered
of_Refresh
of_Register
of_RegisterArgs
of_UnRegister

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetCount function (n_cst_dwcache)

{button Object,JI(`>main',`cbbdbfbe')} {button Examples,JI(`>Examples',`id_pfcoref_1940')}

Description

Retrieves the number of objects currently registered.

Access

Public

Syntax

application.instancename.**of_GetCount** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)

Return value

Integer. Returns the number of objects currently registered.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetCount function (n_cst_dwcache)

This example calls the of_GetCount function:

```
Integer   li_registered


li_registered = gnv_app.inv_dwcache.of_GetCount()
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_GetRegistered function (n_cst_dwcache)

{button Object,JI(`>main',`cbbdbfbe')}

Accesses cached data. There are three syntaxes:

To access	Use
A specified DataStore	Syntax 1
The IDs for all DataStores	Syntax 2
All DataStores	Syntax 3

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

Syntax 1 To access a specified DataStore

Syntax 1 To access a specified DataStore

{button Examples,JI(`>Examples',`id_pfcoref_1943')}

Description

Returns a reference to the DataStore matching the passed ID.

Access

Public

Syntax

application.*instancename*.**of_GetRegistered** (*id*, *cache*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String specifying the cached DataWindow objects ID, as specified in the of_Register function
cache	N_ds variable into which the function places a reference to the cached data's DataStore (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when you know the ID and need to access a single item.

To access all IDs, use Syntax 2; to access all DataStores, use Syntax 3.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

Syntax 1 To access a specified DataStore

This example calls the of_GetRegistered function. This example assumes an ids_datastore instance variable:

```
gnv_app.inv_dwcache.of_GetRegistered &

        ("d_emplist", ids_datastore)
ids_datastore.ShareData(dw_emplist)
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

Syntax 2 To access all IDs

Syntax 2 To access all IDs

{button Examples,JI(`>Examples',`id_pfcoref_1945')}

Description

Returns a reference to all IDs in the istr_cachelist array.

Access

Public

Syntax

application.instancename.**of_GetRegistered** (*idlist*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
idlist	String array into which the function places the cached IDs, as specified in the of_Register function (passed by reference)

Return value

Integer. Returns the number of elements in the *idlist* array if the function succeeds and -1 if an error occurs.

Usage

Call this function to access all IDs.

To access a single item, use Syntax 1; to access all DataStores, use Syntax 3.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

Syntax 2 To access all IDs

This example calls the of_GetRegistered function:

```
String    idlist[ ]


gnv_app.inv_dwcache.of_GetRegistered &
        (idlist)
...
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

Syntax 3 To access all DataStores

Syntax 3 To access all DataStores

```
{button Examples,JI(`>Examples',`id_pfcoref_1947')}
```

Description

Returns a reference to all DataStores in the istr_cachelist array.

Access

Public

Syntax

application.instancename.**of_GetRegistered** (*dslist*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
dslist	N_ds array into which the function places the cached DataStores (passed by

reference)

Return value

Integer. Returns the number of elements in the *dslist* array if the function succeeds and -1 if an error occurs.

Usage

Call this function to access all DataStores.

To access a single item, use Syntax 1; to access all IDs, use Syntax 2.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

Syntax 3 To access all DataStores

This example calls the of_GetRegistered function:

```
n_ds   dslist[ ]


gnv_app.inv_dwcache.of_GetRegistered &
        (dslist)
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_IsRegistered function (n_cst_dwcache)

```
{button Object,JI(`>main',`cbbdbfbe')} {button
Examples,JI(`>Examples',`id_pfcoref_1949')}
```

Description

Reports whether a specified ID is registered with the DataWindow caching service.

Access

Public

Syntax

application.*instancename*.**of_IsRegistered** (*id*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String specifying the ID specified in the of_Register function

Return value

Integer. Returns 1 if *id* is registered, 0 if it is not, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_IsRegistered function (n_cst_dwcache)

This example calls the of_IsRegistered function:

```
Integer   li_return


li_return = gnv_app.inv_dwcache.of_IsRegistered &
   ("d_emplist")
CHOOSE CASE li_return
CASE 1
        gnv_app.inv_dwcache.of_GetRegistered &
       ("d_emplist", ids_datastore)
    ids_datastore.ShareData(dw_emplist)
CASE 0
        gnv_app.inv_dwcache.of_Register &
       ("d_emplist", "d_emplist", SQLCA)
        gnv_app.inv_dwcache.of_GetRegistered &
       ("d_emplist", ids_datastore)
        ids_datastore.ShareData(dw_emplist)
CASE -1
        MessageBox("DW Caching", "Error")
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_Refresh function (n_cst_dwcache)

```
{button Object,JI(`>main',`cbbdbfbe')} {button
Examples,JI(`>Examples',`id_pfcoref_1951')}
```

Description

Refreshes one or all DataStores registered with the caching service.

Access

Public

Syntax

application.*instancename*.**of_Refresh** ({ *id* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id (optional)	Specifies the ID of the cached object to be refreshed

Return value

Long. Returns values as follows:

- **If you specified an ID** Returns the number of rows retrieved
- **If you did not specify an ID** Returns the number of DataStores that were refreshed

Usage

Call this function to reretrieve rows for one or all cached objects.

Must be able to refresh Not all cached objects are refreshable. For example, the specified Transaction object may no longer be connected.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_Refresh function (n_cst_dwcache)

This example calls the of_Refresh function:

```
gnv_app.inv_dwcache.of_Refresh("d_emplist")
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_Register function (n_cst_dwcache)

{button Object,JI(`>main',`cbbdbfbe')}

Enables caching for a specified object. There are seven syntaxes:

To	Use
Cache data retrieved via a DataWindow object, optionally using retrieval arguments	Syntax 1
Cache data retrieved via a DataWindow object	Syntax 2
Cache data retrieved via a SQL statement	Syntax 3
Cache data from a DataWindow control	Syntax 4
Cache data from a DataStore	Syntax 5
Cache passed data	Syntax 6
Cache data from a file	Syntax 7

Protected versions of of_Register There are also two protected versions of of_Register. These are for internal use.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

Syntax 1 To cache data retrieved via a DataWindow object, optionally using retrieval arguments

Syntax 1 To cache data retrieved via a DataWindow object, optionally using retrieval arguments

{button Examples,JI(`>Examples',`id_pfcoref_1954')}

Description

Retrieves rows from the database (using the specified DataWindow object) and caches them.

Access

Public

Syntax

application.instancename.**of_Register** (*id*, *dwobject* {, *trans* {, *arguments* {, *initialload* } } })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)

id	String identifying the cached DataWindow object
dwobject	String specifying the DataWindow object to be cached
trans (optional)	N_tr transaction object used to retrieve rows for *dwobject* If you do not specify this argument, *dwobject* must have been saved with the data
arguments (optional)	Twenty-element array of the Any data type specifying arguments for *dwobject*
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *dwobject* is already registered, -1 if an error occurs, -2 if there is an error with *trans*, and -3 if there is a retrieve error.

Usage

Call this function to cache data for a DataWindow object that uses retrieval arguments.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

Syntax 1 To cache data retrieved via a DataWindow object, optionally using retrieval arguments

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("d_emplist", "d_emplist", SQLCA)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

Syntax 2 To cache data retrieved via a DataWindow object

Syntax 2 To cache data retrieved via a DataWindow object

```
{button Examples,JI(`>Examples',`id_pfcoref_1956')}
```

Description

Retrieves rows from the database (using the specified DataWindow object) and caches them.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *dwobject* {, *trans* {, *initialload* } })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String identifying the cached DataWindow object
dwobject	String specifying the DataWindow object to be cached
trans (optional)	N_tr transaction object used to retrieve rows for *dwobject*

	If you do not specify this argument, *dwobject* must have been saved with the data
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *dwobject* is already registered, -1 if an error occurs, -2 if there is an error with *trans*, and -3 if there is a retrieve error.

Usage

Call this function to cache data for a DataWindow object that has no retrieval arguments.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

Syntax 2 To cache data retrieved via a DataWindow object

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("d_emplist", "d_emplist", SQLCA, TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

Syntax 3 To cache data retrieved via a SQL statement

Syntax 3 To cache data retrieved via a SQL statement

```
{button Examples,JI(`>Examples',`id_pfcoref_1958')}
```

Description

Retrieves rows (using a specified SQL statement) and caches them.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *trans*, *sql* {, *initialload* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String identifying the cached DataWindow object
trans	N_tr transaction object used to retrieve rows for *dwobject*
sql	String specifying the SQL SELECT statement used to create the cache
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *id* is already registered, and -1 if an error occurs.

Usage

Call this function to cache data for a DataWindow object, using SQL to retrieve rows from the database.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

Syntax 3 To cache data retrieved via a SQL statement

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("sql_empall", SQLCA, &
     "SELECT * FROM employee")
...
```

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

Syntax 4 To cache data from a DataWindow control

Syntax 4 To cache data from a DataWindow control

{button Examples,JI(`>Examples',`id_pfcoref_1960')}

Description

Caches rows from a passed DataWindow control.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *dwcontrol* {, *initialload* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache The n_cst_appmanager default for this is inv_dwcache
id	String identifying the cached DataWindow object
dwcontrol	DataWindow control instance whose DataWindow object contains the data to be cached
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *dwobject* is already registered, and -1 if an error occurs.

Usage

Call this function to cache data from a DataWindow control.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

Syntax 4 To cache data from a DataWindow control

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("d_emplist", dw_emplist, TRUE)
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

Syntax 5 To cache data from a DataStore

Syntax 5 To cache data from a DataStore

{button Examples,JI(`>Examples',`id_pfcoref_1962')}

Description

Caches rows from a passed DataStore.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *datastore* {, *initialload* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String identifying the cached DataWindow object
datastore	DataStore instance whose DataWindow object contains the data to be cached
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *id* is already registered, and -1 if an error occurs.

Usage

Call this function to cache data from a DataStore.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

Syntax 5 To cache data from a DataStore

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("d_emplist", ids_emplist, TRUE)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

Syntax 6 To cache passed data

Syntax 6 To cache passed data

{button Examples,JI(`>Examples',`id_pfcoref_1964')}

Description

Caches passed data.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *dwobject*, *data*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String identifying the cached object
dwobject	String specifying the DataWindow object to be cached
data	PowerObject array of structures whose elements match *dwobject*. This array contains the data to be cached

Return value

Integer. Returns 1 if the function succeeds, 0 if *dwobject* is already registered, and -1 if an error occurs.

Usage

Call this function to cache external data for a DataWindow object.

Elements must match Application errors will occur if the elements of the *data* structure do not exactly match the columns of *dwobject*.

The of_Refresh function does not affect data cached with this syntax.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

Syntax 6 To cache passed data

This example calls the of_Register function:

```
s_newdata   str_newdata[ ]


... // Logic to populate str_newdata
gnv_app.inv_dwcache.of_Register &
        ("d_emplist", "d_emplist", str_newdata)
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

Syntax 7 To cache data from a file

Syntax 7 To cache data from a file

{button Examples,JI(`>Examples',`id_pfcoref_1966')}

Description

Caches data from a file.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id*, *dwobject*, *filename* {, *initialload* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	String identifying the cached object
dwobject	String specifying the DataWindow object to be cached
filename	String specifying the name of a tab-delimited file whose elements match *dwobject*
initialload (optional)	Boolean specifying whether to load the data immediately or wait until the first of_Refresh request

Return value

Integer. Returns 1 if the function succeeds, 0 if *dwobject* is already registered, and -1 if an error occurs.

Usage

Call this function to cache data from a file.

Elements must match Application errors will occur if the elements of the lines in *filename* do not exactly match the columns of *dwobject*.

The of_Refresh function does not affect data cached with this syntax.

To cache data from a database, use Syntax 1; to cache data stored with the DataWindow object, use Syntax 3.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

Syntax 7 To cache data from a file

This example calls the of_Register function:

```
gnv_app.inv_dwcache.of_Register &

        ("d_emplist", "d_emplist", "c:\temp\emplist.txt")
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_RegisterArgs function (n_cst_dwcache)

```
{button Object,JI(`>main',`cbbdbfbe')} {button
Examples,JI(`>Examples',`id_pfcoref_1968')}
```

Description

Modifies retrieval arguments for a registered object.

Access

Public

Syntax

application.*instancename*.**of_RegisterArgs** (*id*, *arguments*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id	ID of the cached object
arguments	Twenty-element array of the Any data type specifying new arguments for the DataWindow object associated with *id*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to establish new retrieval arguments for a previously cached DataWindow.

The number of arguments specified in *arguments* must match the number of arguments specified when the cached object was registered.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_RegisterArgs function (n_cst_dwcache)

This example calls the of_RegisterArgs function:

```
Any la_args[20]


// Code to populate la_args
...
gnv_app.inv_dwcache.of_RegisterArgs &
        ("d_emplist", la_args)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_UnRegister function (n_cst_dwcache)

```
{button Object,JI(`>main',`cbbdbfbe')} {button
Examples,JI(`>Examples',`id_pfcoref_1970')}
```

Description

Removes one or all objects from the caching service.

Access

Public

Syntax

application.*instancename*.**of_UnRegister** ({ *id* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_dwcache (the n_cst_appmanager default for this is inv_dwcache)
id (optional)	ID of the DataWindow object to be removed from the cache

Return value

Integer. Returns the number of objects that were unregistered if the function succeeds and -1 if an error occurs.

Usage

If you do not specify *id*, the function unregisters all objects.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_UnRegister function (n_cst_dwcache)

This example calls the of_UnRegister function:

```
gnv_app.inv_dwcache.of_UnRegister &

        ("d_emplist")
```

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

n_cst_dwsrv

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_1973')}
{button Functions,JI(`>list_win',`id_pfcoref_1975')} {button Instance
variables,JI(`>list_win',`id_pfcoref_1974')} {button
Descendants,JI(`>list_win',`id_pfcoref_1972')}
```

Description

Base DataWindow services object. N_cst_dwsrv serves as the ancestor object for all DataWindow services. In addition to being the ancestor for all other DataWindow services, u_dw instantiates this user object as inv_base.

N_cst_dssrv is the same as n_cst_dwsrv N_cst_dssrv, the base DataStore service object is almost identical to n_cst_dwsrv except that it applies to DataStores instead of DataWindow controls. N_cst_dssrv has the same relationship to n_ds as n_cst_dwsrv has to u_dw. Except where noted, references to n_cst_dwsrv in the following discussions apply equally to n_cst_dssrv.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_string

n_cst_dwobjectattrib

n_cst_infoattrib

n_cst_propertyattrib

u_dw

Usage

Call the functions in this user object to obtain basic information about a DataWindow object and its contents.

To use this service:

1 Enable the service using the u_dw of_SetBase function:

```
dw_emp.of_SetBase(TRUE)
```

2 Call base DataWindow service functions as needed:

```
dw_emp.inv_base.of_SetDisplayUnits &

    ("selected employees")
dw_emp.inv_base.of_SetDisplayItem &
    ("the selected employee")
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_dwsrv

n_cst_dwsrv_dropdownsearch
n_cst_dwsrv_filter
n_cst_dwsrv_find
n_cst_dwsrv_linkage
n_cst_dwsrv_multitable
n_cst_dwsrv_printpreview
n_cst_dwsrv_property
n_cst_dwsrv_querymode
n_cst_dwsrv_report
n_cst_dwsrv_reqcolumn
n_cst_dwsrv_resize
n_cst_dwsrv_rowmanager
n_cst_dwsrv_rowselection
n_cst_dwsrv_sort

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

n_cst_dwsrv

u_dw
n_cst_dssrv

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

n_cst_dwsrv

{button Functions,JI(`>list_win',`id_pfcoref_1975')}

N_cst_dwsrv includes instance variables:

Instance variable	Description	Data type	Access	Usage
DBNAME	Constant set to 1	Integer	Public	Use with of_SetColumnDisplayNameStyle
DEFAULT	Constant set to 0	Integer	Public	Use with of_SetColumnDisplayNameStyle
HEADER	Constant set to 2	Integer	Public	Use with of_SetColumnDisplayNameStyle
idw_requestor	The DataWindow control that owns the n_cst_dwsrv instance	u_dw	Protected	Used to access and control the associated DataWindow control
ii_source	Used by n_cst_dwsrv_querymode	Integer	Protected	Access
is_defaultheadersuffix	Default suffix for DataWindow column headers and labels (the default is _t)	String	Protected	Call of_SetDefaultHeaderSuffix and of_GetDefaultHeaderSuffix to access
is_displayitem	Controls message text displayed for a single row	String	Protected	Call of_SetDisplayItem and of_GetDisplayItem to

				access
is_displayunits	Controls message text displayed for multiple rows	String	Protected	Call of_SetDisplayUnits and of_GetDisplayUnits to access

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

n_cst_dwsrv

{button Instance variables,JI(`>list_win',`id_pfcoref_1974')}

of_BuildComparison function

of_BuildExpression function

of_Describe function

of_DWArguments function

of_GetColumnDisplayName function

of_GetColumnDisplayNameStyle function

of_GetColumnNameSource function

of_GetDefaultHeaderSuffix function

of_GetDisplayItem function

of_GetDisplayUnits function

of_GetHeaderName function

of_GetHeight function

of_GetInfo function

of_GetItem function

of_GetItemAny function

of_GetObjects function

of_GetPropertyInfo function

of_GetWidth function

of_Modify function

of_PopulateDDDW function

of_RefreshDDDWs function

of_SetColumnDisplayNameStyle function

of_SetColumnNameSource function

of_SetDefaultHeaderSuffix function

of_SetDisplayItem function

of_SetDisplayUnits function

of_SetItem function

of_SetRequestor function

N_cst_dwsrv includes precoded object functions:

of_BuildComparison	of_GetItemAny
of_BuildExpression	of_GetObjects
of_Describe	of_GetPropertyInfo
of_DWArguments	of_GetWidth
of_GetColumnDisplayName	of_Modify

of_GetColumnDisplayNameStyle
of_GetColumnNameSource
of_GetDefaultHeaderSuffix
of_GetDisplayItem
of_GetDisplayUnits
of_GetHeaderName
of_GetHeight
of_GetInfo
of_GetItem
of_PopulateDDDW
of_RefreshDDDWs
of_SetColumnDisplayNameStyle
of_SetColumnNameSource
of_SetDefaultHeaderSuffix
of_SetDisplayItem
of_SetDisplayUnits
of_SetItem
of_SetRequestor

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_BuildComparison function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_1977')}

Description

Returns a comparison string that can be used in a Find or Filter operation. This string does not contain the column specification, so it can be used with other columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_BuildComparison** (*row*, *column* {, *value* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
row	Long specifying the row number containing the column value
column	String specifying the name of the column containing the value
value (optional)	String specifying a value to be cast to the Any datatype. If you specify this argument, the function does not use *row* and *column*

Return value

Any. Returns the column's value cast to the Any data type if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_BuildComparison function (n_cst_dwsrv)

This example is from the n_cst_dwsrv_linkage pfc_PreDeleteRow event:

```
...

li_upperbound = UpperBound(is_keycols)
FOR li_i = 1 TO li_upperbound
```

```
    is_keycolsvalue[li_i] = of_BuildComparison &
      (al_row, is_keycols[li_i] )
NEXT
...
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_BuildExpression function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_1979')}
```

Description

Creates a complete expression that can be used with a find or filter operation.

Access

Public

Syntax

dwcontrol.*instancename*.**of_BuildExpression** (*row*, *column* {, *operator* {, *value* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
row	Long specifying the row number containing the column value used in the comparison string
column	String specifying the column used in the comparison string
operator (optional)	String specifying the operator used in the comparison string (the default is =)
value (optional)	String specifying a value used in the comparison string. If you specify this argument, the function does not use *row* and *column* to determine the value

Return value

Any. Returns a comparison string if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_BuildExpression function (n_cst_dwsrv)

This example is from the n_cst_dwsrv_linkage of_ScrollDetails function:

```
...

ls_expression = of_BuildExpression  &
   (0, inv_linkargs.is_detailcolarg[li_i],  &
     '=', ls_value)
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_Describe function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')}

Describes DataWindow attributes. There are two syntaxes:

To	Use
Describe multiple columns or bands	Syntax 1
Describe a single column	Syntax 2

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

Syntax 1 To describe multiple columns or bands

Syntax 1 To describe multiple columns or bands

{button Examples,JI(`>Examples',`id_pfcoref_1982')}

Description

Describes the specified attribute for multiple columns or bands.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Describe** (*returndescribe*, *attribute* {, *objecttype*, *band*, *visibleonly* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
returndescribe	N_cst_dwobjectattrib instance into which the function places the described attributes
attribute	String specifying the name of the attribute to describe
objecttype (optional)	String specifying the type of objects to describe. The default is *, which describes all types For more information on DataWindow types, see of_GetObjects
band (optional)	String specifying the band to describe (specify * to return all bands). If you specify *objecttype*, you must specify this argument. The default is *, which describes all bands. Valid bands are: • Header • Detail • Footer • Summary • Header.*levelnumber* • Trailer.*levelnumber*
visibleonly (optional)	Boolean indicating whether to describe visible columns only (TRUE) or all columns (FALSE). If you specify *objecttype*, you must specify this argument. The default is FALSE

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function as an alternative to multiple Describe functions.

Use Syntax 2 to describe a single column.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

Syntax 1 To describe multiple columns or bands

This example describes the border attribute for all visible columns in all bands:

```
n_cst_dwobjectattrib lnv_dwobjectattrib[ ]


dw_employee.inv_base.of_Describe &
        (lnv_dwobjectattrib, "border", "column", &
       "*", TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

Syntax 2 To describe a single column

Syntax 2 To describe a single column

```
{button Examples,JI(`>Examples',`id_pfcoref_1984')}
```

Description

Describes the specified attribute for a single column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Describe** (*returndescribe*, *attribute*, *columnname*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
returndescribe	N_cst_dwobjectattrib instance into which the function places the described attributes
attribute	String specifying the name of the attribute to describe
columnname	String specifying the column to describe

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function as an alternative to multiple Describe functions.

Use Syntax 1 to describe multiple columns.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

Syntax 2 To describe a single column

This example describes the border attribute for the emp_id column:

```
n_cst_dwobjectattrib lnv_dwobjectattrib[ ]


dw_employee.inv_base.of_Describe &
        (lnv_dwobjectattrib, "border", "emp_id")
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_DWArguments function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')}

Determines DataWindow and DropDownDataWindow arguments. There are two syntaxes:

To	Use
Determine DropDownDataWindow arguments	Syntax 1
Determine DataWindow arguments	Syntax 2

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

Syntax 1 To access DropDownDataWindow arguments

Syntax 1 To access DropDownDataWindow arguments

{button Examples,JI(`>Examples',`id_pfcoref_1987')}

Description

Determines if the passed dropdown DataWindow has retrieval arguments.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DWArguments** (*dwchild*, *arguments*, *datatypes*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
dwchild	DataWindowChild variable specifying the DropDownDataWindow to be tested for retrieval arguments
arguments	String array into which the function places argument names (passed by reference)
datatypes	String array into which the function places argument data types (passed by reference)

Return value

Integer. Returns the number of elements in the *arguments* and *datatypes* arrays.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

Syntax 1 To access DropDownDataWindow arguments

This example calls the of_DWArguments function:

```
Long  ll_cnt, ll_max, ll_num_dddws

DataWindowChild  ldwc_dddws[ ]
String  ls_dddw_col, ls_dddw_name
String  ls_args[ ], ls_types[ ]
...
IF of_DWArguments(ldwc_dddws[ll_num_dddws], &
        ls_args, ls_types ) > 0 THEN
       idw_Requestor.Event pfc_RetrieveDDDW &
          (ls_dddw_col)
ELSE
        ldwc_dddws [ll_num_dddws].SetTransObject &
       (idw_Requestor.itr_object)
        ldwc_dddws [ll_num_dddws].Retrieve( )
END IF
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

Syntax 2 To access DataWindow arguments

Syntax 2 To access DataWindow arguments

{button Examples,JI(`>Examples',`id_pfcoref_1989')}

Description

Determines if the passed DataWindow has retrieval arguments.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DWArguments** (*arguments*, *datatypes*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
arguments	String array into which the function places argument names (passed by reference)
datatypes	String array into which the function places argument data types (passed by reference)

Return value

Integer. Returns the number of elements in the *arguments* and *datatypes* arrays.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

Syntax 2 To access DataWindow arguments

This example calls the of_DWArguments function:

```
Integer   li_return, li_count

String    ls_args[ ], ls_types[ ]

li_return = dw_employee.inv_base.of_DWArguments &
        (ls_args, ls_types)
IF li_return > 0 THEN
        FOR li_count = 1 to li_return
       // processing logic
        NEXT
ELSE
        MessageBox("Error", "No DW arguments")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_GetColumnDisplayName function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_1991')}
```

Description

Retrieves the display name for a specified column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetColumnDisplayName** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
column	String specifying the column name or integer specifying the column number

Return value

String. Returns the display name for the column.

Usage

PFC uses the database column name, the DataWindow column name, or the column header name for the display name. You set the display name with the of_SetColumnDisplayNameStyle function.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_GetColumnDisplayName function (n_cst_dwsrv)

This example calls the of_GetColumnDisplayName function:

```
String  ls_name
```

```
ls_name =  &
  dw_1.inv_base.of_GetColumnDisplayName("emp_id")
MessageBox("Name", "Display name is " + ls_name)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_GetColumnDisplayNameStyle function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_1993')}
```

Description

Retrieves the DataWindow's column display name style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetColumnDisplayNameStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Integer. Returns values as follows:

- **0 or DEFAULT** DataWindow column name
- **1 or DBNAME** Database column name
- **2 or HEADER** Column header name

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetColumnDisplayNameStyle function (n_cst_dwsrv)

This example calls the of_GetColumnDisplayNameStyle function:

```
Integer  li_style


li_style =  &
   dw_1.inv_base.of_GetColumnDisplayNameStyle()
MessageBox("Style",  &
   "Display style is " + String(li_style))
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetColumnNameSource function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')}
```

Description

Obsolete. Call of_GetColumnDisplayNameStyle instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetColumnNameSource** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Integer. Returns the column name source:

- 0—DataWindow column names
- 1—Database column names
- 2—Column header names

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_GetDefaultHeaderSuffix function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_1996')}

Description

Retrieves the default header suffix.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultHeaderSuffix** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

String. Returns the default header suffix.

Usage

Call this function to access the default suffix used by DataWindow objects to designate headers.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_GetDefaultHeaderSuffix function (n_cst_dwsrv)

This example calls the of_GetDefaultHeaderSuffix function:

```
String    ls_suffix
```

```
ls_suffix = inv_base.of_GetDefaultHeaderSuffix( )
MessageBox("DataWindow", "Header suffix is: " &
        + ls_suffix)
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_GetDisplayItem function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_1998')}
```

Description

Retrieves the display name for single items in the DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDisplayItem** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

String. Returns the display name for single rows of the DataWindow.

Usage

Call this function to access the display name for individual rows of the DataWindow. PFC uses this name in error message text when confirming single-row deletion. For example, if this name is *this row*, the n_cst_dwsrv_rowmanager function displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetDisplayItem function (n_cst_dwsrv)

This example calls the of_GetDisplayItem function:

```
String    ls_item


ls_item = inv_base.of_GetDisplayItem( )
MessageBox("DataWindow", "Item label is: " &
        + ls_item)
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetDisplayUnits function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2000')}
```

Description

Retrieves the display name for multiple rows in the DataWindow. N_cst_dwsrv maintains this as the is_displayunits instance variable.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDisplayUnits** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

String. Returns the display name for multiple rows of the DataWindow.

Usage

Call this function to access the display name for the rows of the DataWindow. PFC uses this name in error message text when confirming multiple row deletion. For example, if this name is *rows*, the n_cst_dwsrv_rowmanager function displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetDisplayUnits function (n_cst_dwsrv)

This example calls the of_GetDisplayUnits function:

```
String    ls_units


ls_units = inv_base.of_GetDisplayUnits( )
MessageBox("DataWindow", "Unit label is: " &
        + ls_units)
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetHeaderName function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2002')}
```

Description

Returns a header name for the passed DataWindow column name.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetHeaderName** (*columnname* {, *suffix* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
columnname	String specifying the DataWindow column name
suffix (optional)	String specifying the suffix the function uses to find the header name. The default is _t

Return value

String. Returns a formatted DataWindow column heading (with underscores, carriage returns, line feeds, and quotes removed).

Usage

The Sort and Filter dialog boxes used by the n_cst_dwsrv_querymode, n_cst_dwsrv_filter, and n_cst_dwsrv_sort services call this function to determine column header text.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetHeaderName function (n_cst_dwsrv)

This example calls the of_GetHeaderName function:

```
String    ls_colhead, ls_columns


ls_colhead = &
idw_dw.inv_sort.of_GetHeaderName &
        (ls_columns)
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetHeight function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2004')}
```

Description

Retrieves the height of the DataWindow object in the associated DataWindow control.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetHeight** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Long. Returns the height of the DataWindow object in the unit of measure specified for the DataWindow.

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_GetHeight function (n_cst_dwsrv)

This example, from a window Open event, returns the height of the dw_detail DataWindow control:

```
Long   ll_height
```

```
ll_height = dw_detail.of_GetHeight( )
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_GetInfo function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2006')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
infoobject	n_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetInfo function (n_cst_dwsrv)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_base.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_GetItem function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2008')}
```

Description

Retrieves the formatted text of any DataWindow column, regardless of the column's data type. The returned text includes formats, editmasks, and display values, if any.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetItem** (*row*, *column* {, *buffer*, *originalvalue* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
row	Long specifying the row containing the column to be returned
column	String or integer identifying the column to be returned
buffer (optional)	DWBuffer enumerated data type optionally specifying the DataWindow buffer from which to return the value. The default is Primary!
originalvalue (optional)	Boolean specifying whether to return the original value (TRUE) or the current DataWindow value (FALSE). The default is FALSE. IF you specify *buffer*, you must also specify this argument

Return value

String. Returns the formatted text for the specifying row and column.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetItem function (n_cst_dwsrv)

This example calls the of_GetItem function:

```
String    ls_string


IF al_row <= 0 THEN Return ""
/* Get the string value */
IF IsValid(idw_master) THEN
        IF IsValid(idw_master.inv_linkage) THEN
       ls_string = &
          idw_master.inv_linkage.of_GetItem &
             (al_row, as_column)
        ELSE
       Return ""
        END IF
ELSE
        Return ""
END IF
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetItemAny function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2010')}
```

Description

Returns a column's value, cast to the Any data type.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetItemAny** (*row*, *column* {, *buffer*, *originalvalue* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
row	Long specifying the row number of the value to be retrieved
column	String or integer specifying the name of the column for the value to be retrieved
buffer (optional)	String specifying the name of the DataWindow buffer from which to get the column's data value. The default is Primary!
originalvalue (optional)	Boolean specifying whether to return the originally retrieved database value (TRUE) or to return the current value (FALSE). The default is FALSE

Return value

Any. Returns the column value, cast to the Any data type.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetItemAny function (n_cst_dwsrv)

This example is from the n_cst_dwsrv_linkage of_RetrieveDetails function:

```
Integer   li_num_links, li_i, li_rc


Any ls_args[20]
Any la_detail

li_num_links = &
        UpperBound(inv_linkargs.is_mastercolarg)
FOR li_i = 1 to li_num_links
        /* Get the column data value from the master */
        IF IsValid(idw_master) THEN
       IF IsValid(idw_master.inv_linkage) THEN
          ls_args[li_i] = &
             idw_master.inv_linkage.of_GetItemAny &
                (al_row, &
                   inv_linkargs.is_mastercolarg[li_i])
       ELSE
          Return -1
       END IF
        ELSE
       Return -1
        END IF
...
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetObjects function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2012')}
```

Description

Parses the list of objects contained in the associated DataWindow, placing their names into a string array passed by reference and returning the number of names in the array.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetObjects** (*objectlist* {, *objecttype*, *band*, *visibleonly* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
objectlist	String array into which the function places object names (passed by reference)
objecttype (optional)	String specifying the type of objects to return (specify * to return all object types). The default is to return all object types. Valid types are: Bitmap Column Compute (for computed field) Graph Line Ellipse (for oval) Rectangle Report Roundrectangle Tableblob Text
band (optional)	String specifying the band from which to return objects (specify * to return all bands). The default is to return all bands. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
visibleonly (optional)	Boolean specifying whether to return visible objects only (TRUE) or to return all objects (FALSE). The default is FALSE

Return value

Integer. Returns the number of elements in the *objectlist* array.

Usage

Call this function to access information on the objects contained in the DataWindow object associated with the current DataWindow control.

You can control the objects returned by *type*, *band*, and *visibleonly*. Specifying an asterisk (*) for either *objecttype* or *band* means that you want all occurrences of objects across type or band. Specifying TRUE for *visibleonly* means that you only want visible objects; FALSE returns all objects.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetObjects function (n_cst_dwsrv)

This example calls the of_GetObjects function:

```
Integer    li_size
```

```
String    ls_objects[ ]

li_size = dw_employee.inv_base.of_GetObjects &
        (ls_objects[ ], "*", "detail", TRUE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2014')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
propertyobject	n_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information:

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_base.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetWidth function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_2016')}

Description

Retrieves the width (in the units specified for the DataWindow object) of the associated DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetWidth** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Long. Returns the DataWindow width in the units specified for the DataWindow object.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetWidth function (n_cst_dwsrv)

This example uses the of_GetWidth function to determine the width of the dw_employee DataWindow:

```
Long    ll_width


ll_width = dw_employee.inv_base.of_GetWidth( )
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_Modify function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')}

Modifies DataWindow attributes. There are two syntaxes:

To	Use
Modify multiple columns or bands	Syntax 1
Modify a single column	Syntax 2

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

Syntax 1 To modify multiple columns or bands

Syntax 1 To modify multiple columns or bands

{button Examples,JI(`>Examples',`id_pfcoref_2019')}

Description

Modifies the specified attribute for multiple columns or bands.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Modify** (*attribute*, *value*
{, *objecttype*, *band*, *visibleonly* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
attribute	String specifying the name of the attribute to be modified
value	String specifying the new value for the attribute
objecttype (optional)	String specifying the type of objects to modify. The default is *, which modifies all types For more information on DataWindow types, see of_GetObjects
band (optional)	String specifying the band to modify (specify * to return all bands). The default is *, which modifies all bands. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
visibleonly (optional)	Boolean indicating whether to modify visible columns only (TRUE) or all columns (FALSE). The default is FALSE

Return value

String. Returns the string from the Modify function. An empty string indicates success.

Usage

Call this function as an alternative to multiple Modify functions.

Use Syntax 2 to modify a single column.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

Syntax 1 To modify multiple columns or bands

This example changes the border for all columns in all bands to 3D lowered (5):

```
String     ls_return


ls_return = dw_employee.inv_base.of_Modify &
        ("border", "5", "column", "*", TRUE)
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

Syntax 2 To modify a single column

Syntax 2 To modify a single column

```
{button Examples,JI(`>Examples',`id_pfcoref_2021')}
```

Description

Modifies the specified attribute for a single column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Modify** (*attribute*, *value*, *columnname*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
attribute	String specifying the name of the attribute to be modified
value	String specifying the new value for the attribute
columnname	String specifying the column to modify

Return value

String. Returns the string from the Modify function. An empty string indicates success.

Usage

Call this function as an alternative to multiple Modify functions.

Use Syntax 1 to modify multiple columns.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

Syntax 2 To modify a single column

This example changes the border for the emp_id column to 3D lowered (5):

```
String    ls_return


ls_return = dw_employee.inv_base.of_Modify &
        ("border", "5", "emp_id")
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_PopulateDDDW function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2023')}
```

Description

Populates the specified DropDownDataWindow column or columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_PopulateDDDW** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
column (optional)	String specifying the column name or integer specifying the column number. If you omit this argument, the function populates all DropDownDataWindows in a DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the u_dw pfc_PopulateDDDW event. You must extend this event to call the PowerScript Retrieve function for the passed DropDownDataWindow column, specifying retrieval arguments as necessary.

Not in n_cst_dssrv This function is not implemented in n_cst_dssrv.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_PopulateDDDW function (n_cst_dwsrv)

This example calls the of_PopulateDDDW function:

```
...

dw_1.inv_base.of_PopulateDDDW("dept_id")
...
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_RefreshDDDWs function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')}
```

Description

Obsolete. Call of_PopulateDDDW instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_RefreshDDDWs** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Integer. Returns the number of DropDownDataWindows found and refreshed.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetColumnDisplayNameStyle function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_2026')}

Description

Specifies the DataWindow's column display name style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetColumnDisplayNameStyle** (*style*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
style	Integer or n_cst_dwsrv constant specifying the display style: • **0 or DEFAULT** DataWindow column name • **1 or DBNAME** Database column name • **2 or HEADER** Column header name

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify the column labels and headings used by the n_cst_dwsrv_querymode, n_cst_dwsrv_filter, and n_cst_dwsrv_sort services.

You typically call this function just after instantiating the service.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_SetColumnDisplayNameStyle function (n_cst_dwsrv)

This example calls the of_SetColumnDisplayNameStyle function:

```
...

dw_1.inv_base.of_SetColumnDisplayNameStyle  &
 (dw_1.inv_base.HEADER)
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_SetColumnNameSource function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')}

Description

Obsolete. Call of_SetColumnDisplayNameStyle instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetColumnNameSource** (*source*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
source	Integer specifying the column name source: • 0—DataWindow column names (default) • 1—Database column names • 2—DataWindow column header names

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetDefaultHeaderSuffix function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_2029')}

Description

Specifies the default suffix that your application uses in DataWindow objects to designate headers.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultHeaderSuffix** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_SetDefaultHeaderSuffix function (n_cst_dwsrv)

This example calls the of_SetDefaultHeaderSuffix function:

```
of_SetDefaultHeaderSuffix("_h")
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetDisplayItem function (n_cst_dwsrv)

{button Object,JI(`>main',`caiebdce')} {button Examples,JI(`>Examples',`id_pfcoref_2031')}

Description

Specifies the display name for single items in the DataWindow. N_cst_dwsrv maintains this as the is_displayitem instance variable.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDisplayItem** (*itemname*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
itemname	String specifying the display name for single rows of the DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify the display name for individual rows of the DataWindow. PFC uses this name in error message text when confirming single-row deletion. For example, if you specify *this row*, the n_cst_dwsrv_rowmanager function displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_SetDisplayItem function (n_cst_dwsrv)

This example calls the of_SetDisplayItem function:

```
...

inv_base.of_SetDisplayItem("the selected row")
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetDisplayUnits function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2033')}
```

Description

Specifies the display name for multiple rows in the DataWindow. N_cst_dwsrv maintains this as the is_displayunits instance variable.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDisplayUnits** (*units*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
units	String specifying the display name for multiple rows of the DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify the display name for the rows of the DataWindow. PFC uses this name in error message text when confirming multiple row deletion. For example, if this name is *rows*, the n_cst_dwsrv_rowmanager function displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetDisplayUnits function (n_cst_dwsrv)

This example calls the of_SetDisplayUnits function:

```
...

inv_base.of_SetDisplayUnits("selected rows")
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetItem function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2035')}
```

Description

Sets values in a specified row and column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetItem** (*row*, *column*, *value*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
row	Long specifying the row containing the column to be updated
column	String or integer identifying the column to be updated. The function automatically converts this into the appropriate data type
value	String containing the new value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to update a DataWindow column when you aren't sure of the column's data type.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_SetItem function (n_cst_dwsrv)

This example calls the of_SetItem function to blank out the emp_id column for the current row:

```
Integer    li_return

Long       ll_current

ll_current = dw_employee.GetRow()
li_return = inv_base.of_SetItem &
        (ll_current, "emp_id", "")
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetRequestor function (n_cst_dwsrv)

```
{button Object,JI(`>main',`caiebdce')} {button
Examples,JI(`>Examples',`id_pfcoref_2037')}
```

Description

Associates a DataWindow service with a DataWindow control.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRequestor** (*requestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv (the u_dw default is inv_base)
requestor	U_dw-based DataWindow control to be associated with a service

Return value

None

Usage

The u_dw of_Set*servicename* functions call this function.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetRequestor function (n_cst_dwsrv)

The u_dw of_SetReport function calls the of_SetRequestor function to associate the reporting service with u_dw-based DataWindow:

```
IF NOT IsValid (inv_Report) THEN
```

```
        inv_Report = CREATE n_cst_dwsrv_report
        inv_Report.of_SetRequestor(This)
END IF
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

n_cst_dwsrv_dropdownsearch

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2039')}
{button Functions,JI(`>list_win',`id_pfcoref_2046')} {button
Events,JI(`>list_win',`id_pfcoref_2041')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2040')}
```

Description

Scrolls a DropDownDataWindow or DropDownListBox automatically, filling in the field as the user types.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

Use this object to add code to u_dw that provides automatic scrolling in DropDownDataWindows.

To use this service:

1 Enable the service by calling the u_dw of_SetDropDownSearch function.

```
dw_emp.of_SetDropDownSearch(TRUE)
```

2 Specify the DropDownDataWindow column for which the service is enabled:

```
dw_emp.inv_dropdownsearch.of_Register("dept_id")
```

3 In the DataWindow control's EditChanged event, add a call to the n_cst_dwsrv_dropdownsearch pfc_EditChanged event:

```
inv_dropdownsearch.Event pfc_EditChanged &

    (row, dwo, data)
```

4 In the DataWindow control's ItemFocusChanged event, add a call to the n_cst_dwsrv_dropdownsearch pfc_ItemFocusChanged event:

```
inv_dropdownsearch.Event pfc_ItemFocusChanged &

    (row, dwo)
```

PFC 7 custom class extension To further the extendibility of PFC, the n_cst_dwsrv_dropdownsearchattrib custom class user object replaces the os_columns object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_dwsrv_dropdownsearch

n_cst_dwsrv

u_ddlb

u_ddplb

u_dw

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

n_cst_dwsrv_dropdownsearch

{button Functions,JI(`>list_win',`id_pfcoref_2046')} {button Events,JI(`>list_win',`id_pfcoref_2041')}

N_cst_dwsrv_dropdownsearch includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_performsearch	Indicates whether the current column is a dropdown DataWindow	Boolean	Protected	Internal
ii_currentindex	Current index value	Integer	Protected	Internal
inv_columns [ ]	Column and text information for dropdown	n_cst_dwsrv	Protected	Internal

	DataWindows	_dropdowns earchattrib		
is_textprev	Previously typed text	String	Protected	Internal

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

n_cst_dwsrv_dropdownsearch

{button Functions,JI(`>list_win',`id_pfcoref_2046')} {button Instance variables,JI(`>list_win',`id_pfcoref_2040')}

pfc_EditChanged event

pfc_ItemFocusChanged event

N_cst_dwsrv_dropdownsearch includes precoded events:

pfc_EditChanged

pfc_ItemFocusChanged

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

pfc_EditChanged event (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')} {button Examples,JI(`>Examples',`id_pfcoref_2043')}

Description

Scrolls the column to the first row that matches the typed characters.

Syntax

dwcontrol.*instancename*.EVENT **pfc_EditChanged** (*row*, *dwobject*, *data*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
row	Long containing the number of the row for the item whose value has been changed. From within the pfc_EditChanged event, access this value through the *al_row*argument (passed by reference)
dwobject	DWObject containing a reference to the column for the item whose value has been changed. *Dwobject* is a reference to the column object, not the name of the column. From within the pfc_EditChanged event, access this value through the *adwo_obj* argument (passed by reference)
data	String containing the new data the user has specified for the item. From within the pfc_EditChanged event, access this value through the *as_data* argument (passed by reference)

Usage

Add code to the DataWindow's EditChanged event to call this event.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

pfc_EditChanged event (n_cst_dwsrv_dropdownsearch)

This example calls the pfc_EditChanged event from the DataWindow's EditChanged event:

```
inv_dropdownsearch.Event pfc_EditChanged &

        (row, dwo, data)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

pfc_ItemFocusChanged event (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')} {button Examples,JI(`>Examples',`id_pfcoref_2045')}

Description

Initializes fields in the istr_columns structure array.

Syntax

dwcontrol.*instancename*.EVENT **pfc_ItemFocusChanged** (*row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
row	Long containing the number of the row. From within the pfc_ItemFocusChanged event, access this value through the *al_row* argument
dwobject	DWObject containing a reference to the column containing the item whose value has been changed. *Dwobject* is a reference to the column object, not the name of the column. From within the pfc_ItemFocusChanged event, access this value through the *adwo_object* argument (passed by reference)

Usage

This event executes when item focus changes. You must add code to the DataWindow's ItemFocusChanged event to call this event.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_ItemFocusChanged event (n_cst_dwsrv_dropdownsearch)

This example calls the pfc_ItemFocusChanged event from the DataWindow's ItemFocusChanged event:

```
inv_dropdownsearch.Event pfc_ItemFocusChanged &

        (row, dwo)
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

n_cst_dwsrv_dropdownsearch

{button Events,JI(`>list_win',`id_pfcoref_2041')} {button Instance variables,JI(`>list_win',`id_pfcoref_2040')}

of_AddColumn function

of_DeleteItem function

of_GetColumn function

of_GetInfo function
of_GetPropertyInfo function
of_GetRegisterable function
of_GetRegistered function
of_IsRegistered function
of_Register function
of_RemoveColumn function
of_SearchItem function
of_UnRegister function

N_cst_dwsrv_dropdownseach contains precoded object functions:

of_AddColumn	of_GetRegistered
of_DeleteItem	of_IsRegistered
of_GetColumn	of_Register
of_GetInfo	of_RemoveColumn
of_GetPropertyInfo	of_SearchItem
of_GetRegisterable	of_UnRegister

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_AddColumn function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')}

Description

Obsolete. Call of_Register instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddColumn** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column (optional)	String specifying the dropdown DataWindow column to add to the istr_columns array. This column should be a dropdown DataWindow and contain string data. If you do not specify this argument, the function adds all dropdown DataWindows to the istr_columns array

Return value

Integer. Returns the number of dropdown DataWindow columns added if the function succeeds, 0 if the column was not added, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_DeleteItem function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')} {button Examples,JI(`>Examples',`id_pfcoref_2049')}

Description

Removes an item from the istr_columns array and then compresses the array.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_DeleteItem** (*index*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
index	Integer indicating which element of the istr_columns array to remove

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_DeleteItem function (n_cst_dwsrv_dropdownsearch)

This example calls the of_DeleteItem function:

```
...

of_DeleteItem(li_index)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetColumn function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')}

Description

Obsolete. Call of_GetRegistered instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetColumn** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
columns	String array into which the function places the dropdown DataWindow column names (passed by reference)

Return value

Integer. Returns the number of elements in the *columns* array.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetInfo function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')} {button Examples,JI(`>Examples',`id_pfcoref_2052')}

Description

Retrieves dropdown search service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
infoobject	n_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_GetInfo function (n_cst_dwsrv_dropdownsearch)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_dropdownsearch.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetPropertyInfo function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2054')}
```

Description

Retrieves information about the dropdown search service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
propertyobject	n_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information:

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetPropertyInfo function (n_cst_dwsrv_dropdownsearch)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_dropdownsearch.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_GetRegisterable function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2056')}
```

Description

Retrieves an array of registerable columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
columns	String array into which the function places a list of registerable columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Usage

A registerable column has the DropDownDataWindow or DropDownListBox edit style and has a display value of type Char.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetRegisterable function (n_cst_dwsrv_dropdownsearch)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop
li_loop =  &
   dw_1.inv_dropdownsearch.of_GetRegisterable  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registerable columns")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_GetRegistered function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2058')}
```

Description

Retrieves an array of registered columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*columns*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
columns	String array into which the function places a list of registered columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetRegistered function (n_cst_dwsrv_dropdownsearch)

This example calls the of_GetRegistered function:

```
String   ls_columns[ ]

Integer  li_count, li_loop

li_loop =  &
   dw_1.inv_dropdownsearch.of_GetRegistered  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registered columns")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_IsRegistered function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2060')}
```

Description

Reports whether a column is registered.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column	String specifying the column to be checked

Return value

Boolean. Returns TRUE if *column* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_IsRegistered function (n_cst_dwsrv_dropdownsearch)

This example calls the of_IsRegistered function:

```
IF NOT dw_1.inv_dropdownsearch.of_IsRegistered  &

  ("dept_id") THEN
    dw_1.inv_dropdownsearch.of_Register("dept_id")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_Register function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2062')}
```

Description

Registers one or all DropDownDataWindow and DropDownListBox columns with the dropdown search service.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column (optional)	String specifying the column to be registered. If you omit this argument, the function registers all eligible columns

Return value

Integer. Returns the number of columns registered if the function succeeds and -1 if an error occurs.

Usage

A registerable column has the DropDownDataWindow or DropDownListBox edit style and has a display value of type Char.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_Register function (n_cst_dwsrv_dropdownsearch)

This example calls the of_Register function:

```
IF NOT dw_1.inv_dropdownsearch.of_IsRegistered  &

  ("dept_id") THEN
    dw_1.inv_dropdownsearch.of_Register("dept_id")
```

```
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_RemoveColumn function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')}

Description

Obsolete. Call of_UnRegister instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_RemoveColumn** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column	String specifying the dropdown DataWindow column to remove from the istr_columns array

Return value

Integer. Returns the number of columns in the istr_columns array if the function succeeds, 0 if *column* is not found, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_SearchItem function (n_cst_dwsrv_dropdownsearch)

{button Object,JI(`>main',`cdebbebj')} {button Examples,JI(`>Examples',`id_pfcoref_2065')}

Description

Searches the istr_columns array for the specified column name.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SearchItem** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column	String specifying the column to be searched for

Return value

Integer. Returns the istr_columns array element containing *column*, 0 if *column* is not in istr_columns, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_SearchItem function (n_cst_dwsrv_dropdownsearch)

This example is from the pfc_ItemFocusChanged event:

```
...

li_index = of_SearchItem(ls_dwcolname)
...
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_UnRegister function (n_cst_dwsrv_dropdownsearch)

```
{button Object,JI(`>main',`cdebbebj')} {button
Examples,JI(`>Examples',`id_pfcoref_2067')}
```

Description

Removes one or all columns from the list of registered columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** ({ *column* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_dropdownsearch (the u_dw default is inv_dropdownsearch)
column (optional)	String specifying the name of the column to unregister

Return value

Integer. Returns 1 if the function succeeds, 0 if *column* is not registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_UnRegister function (n_cst_dwsrv_dropdownsearch)

This example calls the of_UnRegister function:

```
dw_1.inv_dropdownsearch.of_UnRegister("dept_id")
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

n_cst_dwsrv_filter

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2069')} {button Functions,JI(`>list_win',`id_pfcoref_2073')} {button Events,JI(`>list_win',`id_pfcoref_2071')} {button Instance variables,JI(`>list_win',`id_pfcoref_2070')}

Description

Filter service. Provides functions that make it easy for you to add DataWindow filter functionality to an application. This service allows you to choose among three styles of filter dialog boxes.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_filterattrib

n_cst_infoattrib

n_cst_propertyattrib

n_cst_returnattrib

w_filterextended

w_filtersimple

Usage

Use this service to add filter capabilities to your DataWindow. For example, you might add a menu items that calls the u_dw pfc_FilterDlg event.

To use this service:

1 Enable the service using the u_dw of_SetFilter function:

```
dw_emp.of_SetFilter(TRUE)
```

2 (Optional) Specify whether filter dialog boxes should display database column names, DataWindow column names, or column header names, by calling the n_cst_dwsrv of_SetColumnDisplayNameStyle function:

```
dw_emp.inv_filter.of_SetColumnDisplayNameStyle(2)
```

3 (Optional) Specify the filter dialog box style by calling the of_SetStyle function:

```
dw_emp.inv_filter.of_SetStyle  &

   (dw_emp.inv_filter.EXTENDED)
```

4 Call the pfc_FilterDlg event:

```
dw_emp.inv_filter.Event pfc_FilterDlg()
```

This displays the filter dialog box.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

n_cst_dwsrv_filter

n_cst_dwsrv_sort

u_dw

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

n_cst_dwsrv_filter

{button Functions,JI(`>list_win',`id_pfcoref_2073')} {button Events,JI(`>list_win',`id_pfcoref_2071')}

N_cst_dwsrv_filter includes instance variables:

Instance variable	Description	Data type	Access	Usage
EXTENDED	Constant set to 1	Integer	Public	Use with of_SetStyle to specify filter dialog box style
ib_visibleonly	Controls whether Filter dialog boxes display nonvisible columns	Boolean	Protected	Internal

ii_style	Tracks filter style	Integer	Protected	Internal
is_excludecolumns[ ]	Tracks excluded columns	String	Protected	Internal
is_filterin	Filter the user specified	String	Protected	Internal
is_filterout	DataWindow filter	String	Protected	Internal
SIMPLE	Constant set to 2	Integer	Public	Use with of_SetStyle to specify filter dialog box style

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

n_cst_dwsrv_filter

{button Functions,JI(`>list_win',`id_pfcoref_2073')} {button Instance variables,JI(`>list_win',`id_pfcoref_2070')}

pfc_FilterDlg event

N_cst_dwsrv_filter contains a precoded user event:

pfc_FilterDlg

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

pfc_FilterDlg event (n_cst_dwsrv_filter)

{button Object,JI(`>main',`cdebjjha')}

Description

Displays the filter dialog box and filters the DataWindow.

Return value

Integer. Returns 1 if the function succeeds, 0 if the user canceled out of the dialog box, and -1 if an error occurs.

Usage

This event is called when the user selects View>Filter from the menu bar of a menu that descends from PFC's m_master menu.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

n_cst_dwsrv_filter

{button Events,JI(`>list_win',`id_pfcoref_2071')} {button Instance variables,JI(`>list_win',`id_pfcoref_2070')}

of_BuildFilterAttrib function

of_Filter function

of_GetExclude function

of_GetFilter function

of_GetInfo function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetStyle function

of_GetVisibleOnly function

of_SetExclude function

of_SetFilter function

of_SetStyle function

of_SetVisibleOnly function

N_cst_dwsrv_filter contains precoded object functions:

of_BuildFilterAttrib	of_GetStyle
of_Filter	of_GetVisibleOnly
of_GetExclude	of_SetExclude
of_GetFilter	of_SetFilter
of_GetInfo	of_SetStyle
of_GetPropertyInfo	of_SetVisibleOnly
of_GetRegisterable	

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_BuildFilterAttrib function (n_cst_dwsrv_filter)

{button Object,JI(`>main',`cdebjjha')} {button Examples,JI(`>Examples',`id_pfcoref_2075')}

Description

Prepares the filter information required by the filter dialog boxes.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_BuildFilterAttrib** (*filterattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
filterattrib	N_cst_filterattrib instance into which the function places filter information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_BuildFilterAttrib function (n_cst_dwsrv_filter)

This example calls the of_BuildFilterAttrib function:

```
...

IF of_BuildFilterAttrib(lnv_filterattrib) <> 1 THEN
        Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Filter function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2077')}
```

Description

Filters a DataWindow and calls the u_dw pfc_RowChanged event to indicate that the current row may have changed.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Filter** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function after calling the of_SetFilter function to filter a DataWindow.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_Filter function (n_cst_dwsrv_filter)

This example calls the of_Filter function after calling the of_SetFilter function. Because of_SetFilter is passed a NULL argument, it displays a filter dialog box, as specified in the of_SetStyle function:

```
String    ls_null


SetNull(ls_null)
dw_emplist.inv_filter.of_SetStyle  &
   (dw_emplist.inv_filter.SIMPLE)
dw_emplist.inv_filter.of_SetFilter(ls_null)
dw_emplist.inv_filter.of_Filter( )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetExclude function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2079')}
```

Description

Retrieves the list of excluded columns as set by the of_SetExclude function.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetExclude** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
columns	String array into which the function places the excluded columns (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_GetExclude function (n_cst_dwsrv_filter)

This example calls the of_GetExclude function:

```
String    ls_exclude[ ]


String    ls_list
Integer   li_count

dw_emplist.inv_filter.of_GetExclude(ls_exclude)
For li_count = 1 to UpperBound(ls_exclude)
        ls_list = ls_list + ls_exclude[li_count] + ", "
NEXT
MessageBox("Filter Service", &
        "Excluded columns are: " + ls_list)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetFilter function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2081')}
```

Description

Retrieves the current filter.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetFilter** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)

Return value

String. Returns the current filter.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_GetFilter function (n_cst_dwsrv_filter)

This example calls the of_GetFilter function:

```
String     ls_filter


ls_filter = &
        dw_emplist.inv_filter.of_GetFilter()
MessageBox("Filter Service", "Filter is: " &
        + ls_filter)
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_GetInfo function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2083')}
```

Description

Retrieves filter service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_GetInfo function (n_cst_dwsrv_filter)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_filter.of_GetInfo(lnv_info)
```

```
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_GetPropertyInfo function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2085')}
```

Description

Retrieves information about the filter service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetPropertyInfo function (n_cst_dwsrv_filter)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_filter.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetRegisterable function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2087')}
```

Description

Retrieves an array of registerable columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
columns	String array into which the function places a list of registerable columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Usage

You can register all columns, including computed columns.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetRegisterable function (n_cst_dwsrv_filter)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop
li_loop =  &
   dw_1.inv_filter.of_GetRegisterable  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registerable columns")
END IF
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetStyle function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2089')}
```

Description

Retrieves the current filter style. The filter style specifies which filter dialog box displays when you call the pfc_FilterDlg event.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)

Return value

Integer. Returns the current filter style:

- 0—PowerBuilder Filter dialog box (default)
- 1—PFC's w_filterextended dialog box
- 2—PFC's w_filtersimple dialog box

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetStyle function (n_cst_dwsrv_filter)

This example calls the of_GetStyle function:

```
Integer   li_filter_style

String    ls_filter_style[3] = &
        {"Default", "Wizard", "Simple"}

li_filter_style = &
        dw_emplist.inv_filter.of_GetStyle()
MessageBox("Filter Service", "Filter style is: " &
        + ls_filter_style[li_filter_style + 1] )
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_GetVisibleOnly function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2091')}
```

Description

Reports whether the filter service uses visible columns only or all columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetVisibleOnly** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)

Return value

Boolean. Returns TRUE if the filter service uses visible columns only and FALSE if it uses all columns.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetVisibleOnly function (n_cst_dwsrv_filter)

This example calls the of_GetVisibleOnly function:

```
IF dw_emplist.inv_filter.of_GetVisibleOnly() THEN


        gnv_app.of_GetFrame().SetMicroHelp &
       ("Visible columns only")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("All columns used for filter")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetExclude function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2093')}
```

Description

Establishes a list of columns to be excluded from Filter dialog boxes.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetExclude** (*excludecols*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
excludecols	String array specifying columns to be excluded from filter dialog boxes

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetExclude function (n_cst_dwsrv_filter)

This example calls the of_SetExclude function:

```
String    ls_exclude[ ]


ls_exclude[1] = "dept_id"
```

```
dw_emplist.inv_filter.of_SetExclude(ls_exclude)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_SetFilter function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2095')}
```

Description

Specifies a DataWindow filter or displays a Filter dialog box.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetFilter** (*filter*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
filter	String containing the filter expression. If this argument is NULL, the function displays a filter dialog box to obtain the filter expression

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You control the type of filter dialog box in the of_SetStyle function.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetFilter function (n_cst_dwsrv_filter)

This example calls the of_SetFilter function:

```
String    ls_null

Integer   li_return

SetNull(ls_null)
dw_emplist.inv_filter.of_SetStyle(1)
li_return = &
        dw_emplist.inv_filter.of_SetFilter(ls_null)
gnv_app.of_GetFrame().SetMicroHelp &
        ("Return code = " + String(li_return))
dw_emplist.inv_filter.of_Filter( )
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_SetStyle function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2097')}
```

Description

Specifies the filter dialog box type:

Default PowerBuilder Filter dialog box

PFC's w_filterextended dialog box

PFC's w_filtersimple dialog box

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetStyle** (*filterstyle*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
filterstyle	Integer or n_cst_dwsrv_filter constant specifying the filter style: • **0 or DEFAULT** PowerBuilder Filter dialog box (default) • **1 or EXTENDED** The w_filterextended dialog box • **2 or SIMPLE** The w_filtersimple dialog box

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify a filter style before calling the of_SetFilter and of_Filter functions or the pfc_FilterDlg event.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetStyle function (n_cst_dwsrv_filter)

This example calls the of_SetStyle function to enable display of the w_filterextended dialog box:

```
String     ls_null

Integer    li_return

SetNull(ls_null)
dw_emplist.inv_filter.of_SetStyle  &
  (dw_emplist.inv_filter.EXTENDED)
li_return = dw_emplist.inv_filter.of_SetFilter(ls_null)
gnv_app.of_GetFrame().SetMicroHelp("Return code = " &
        + String(li_return))
dw_emplist.inv_filter.of_Filter( )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetVisibleOnly function (n_cst_dwsrv_filter)

```
{button Object,JI(`>main',`cdebjjha')} {button
Examples,JI(`>Examples',`id_pfcoref_2099')}
```

Description

Controls whether filter dialog boxes display all columns or visible columns only.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetVisibleOnly** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_filter (the u_dw default is inv_filter)
boolean	Boolean indicating whether filter dialog boxes display visible columns only (TRUE) or all columns (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SetVisibleOnly function (n_cst_dwsrv_filter)

This example calls the of_SetVisibleOnly function:

```
dw_emplist.inv_filter.of_SetVisibleOnly(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

n_cst_dwsrv_find

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2101')} {button Functions,JI(`>list_win',`id_pfcoref_2109')} {button Events,JI(`>list_win',`id_pfcoref_2103')} {button Instance variables,JI(`>list_win',`id_pfcoref_2102')}

Description

Find and replace service. Provides functions and events that make it easy for you to add find and replace functionality to your application's DataWindows.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

Use this object to add find and replace capabilities to DataWindows.

To use this service:

1 Enable the service using the u_dw of_SetFind function:

```
dw_emp.of_SetFind(TRUE)
```

When users select Edit>Find or Edit>Replace from the menu bar of a menu that descends from the m_master menu, the service displays the w_find or w_replace dialog box. You can also display these dialog boxes programmatically, as explained in the next step.

2 Display the w_find dialog box by calling the u_dw pfc_FindDlg event; display the w_replace dialog box by calling the u_dw pfc_ReplaceDlg event. This example displays the w_find dialog box:

```
dw_emp.Event pfc_FindDlg()
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

n_cst_dwsrv_find

n_cst_dwsrv

n_cst_rtefind

u_dw

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

n_cst_dwsrv_find

{button Functions,JI(`>list_win',`id_pfcoref_2109')} {button Events,JI(`>list_win',`id_pfcoref_2103')}

N_cst_dwsrv_find includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_allowfinddlg	Indicates whether the service displays the Find dialog	Boolean	Protected	Use of_SetAllowFindDlg and of_IsAllowFindDlg to access
ib_allowreplacedlg	Indicates whether the service displays the Replace dialog	Boolean	Protected	Use of_SetAllowReplaceDlg and of_IsAllowReplaceDlg to access
ib_includecomputes	Indicates whether a find operation includes computed fields	Boolean	Protected	Use of_IncludeComputes to access
ib_ongoingfind	Indicates whether a find operation is in progress	Boolean	Protected	Internal
ib_replaced	Indicates whether a replace succeeded	Boolean	Protected	Internal
il_lastfindrow	Tracks the number of the last row found	Long	Protected	Internal
inv_findattrib	Structure object containing find and replace information	n_cst_findattrib	Protected	Internal
is_findexpression	Contains the string that is passed to the Find function	String	Protected	Internal
is_lastfindcolumn	Tracks the name of the last column found	String	Protected	Internal

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

n_cst_dwsrv_find

{button Functions,JI(`>list_win',`id_pfcoref_2109')} {button Instance variables,JI(`>list_win',`id_pfcoref_2102')}

- pfc_FindDlg event
- pfc_FindNext event
- pfc_Replace event
- pfc_ReplaceAll event
- pfc_ReplaceDlg event

N_cst_dwsrv_find includes precoded events:

pfc_FindDlg	pfc_ReplaceAll
pfc_FindNext	pfc_ReplaceDlg
pfc_Replace	

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

pfc_FindDlg event (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')}

Description

Displays the w_find dialog box.

Usage

This event is called when the DataWindow has focus and the user selects Edit>Find from a menu that descends from the PFC m_master menu. To include computed fields in a search, call of_IncludeComputes (true) before this event is triggered.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_FindNext event (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')}

Description

Continues a search or finds the next occurrence.

Syntax

instancename.EVENT **pfc_FindNext** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_dwsrv_find
findattrib	n_cst_findattrib instance containing find information. From within the pfc_FindNext event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns the number of the next matching row. This event returns 0 if no matching text is found and -1 if an error occurs.

Usage

This event is called by the w_find and w_replace dialog boxes to continue a search for a previously specified string.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_Replace event (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')}

Description

Replaces text as specified in the w_replace dialog box.

Syntax

instancename.Event **pfc_Replace** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_dwsrv_find
findattrib	n_cst_findattrib instance containing find information. From within the pfc_Replace event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_replace dialog box calls this event when the user clicks Replace.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

pfc_ReplaceAll event (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')}

Description

Calls the pfc_Replace event to replace all occurrences of the search string with the target string.

Syntax

instancename.Event **pfc_ReplaceAll** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_dwsrv_find
findattrib	n_cst_findattrib instance containing find information. From within the pfc_ReplaceAll event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_replace dialog box calls this event when the user clicks Replace All.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

pfc_ReplaceDlg event (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')}

Description

Displays the w_replace dialog box.

Usage

This event is called when the DataWindow has focus and the user selects Edit>Replace from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_dwsrv_find

{button Events,JI(`>list_win',`id_pfcoref_2103')} {button Instance variables,JI(`>list_win',`id_pfcoref_2102')}

of_BuildColumnNames function

of_BuildFindExpression function

of_CompareAttrib function

of_Find function

of_FindStartAndEndRows function

of_GetColumnEditStatus function

of_GetInfo function

of_GetPropertyInfo function

of_IncludeComputes function

of_Initialize function

of_IsAllowFindDlg function

of_IsAllowReplaceDlg function

of_IsOngoingFind function

of_Replace function

of_SelectText function

of_SetAllowFindDlg function

of_SetAllowReplaceDlg function

N_cst_dwsrv_find includes precoded object functions:

of_BuildColumnNames
of_BuildFindExpression
of_CompareAttrib
of_Find
of_FindStartAndEndRows
of_GetColumnEditStatus
of_GetInfo
of_GetPropertyInfo
of_IncludeComputes
of_Initialize
of_IsAllowFindDlg
of_IsAllowReplaceDlg
of_IsOngoingFind
of_Replace
of_SelectText
of_SetAllowFindDlg
of_SetAllowReplaceDlg

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_BuildColumnNames function (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')} {button Examples,JI(`>Examples',`id_pfcoref_2111')}

Description

Populates the inv_findattrib.is_lookdata and is_lookdisplay array elements with the columns to display in the w_find and w_replace dialog boxes.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_BuildColumnNames** (*replacelist*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
replacelist	Boolean indicating whether to replace the list of columns flag

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_BuildColumnNames function (n_cst_dwsrv_find)

This example is from the pfc_FindDlg event:

```
...

of_BuildColumnNames(FALSE)

//Open the Find dialog.
OpenWithParm(w_find, inv_findattrib)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_BuildFindExpression function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2113')}
```

Description

Builds the string that is passed to the PowerScript Find function.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_BuildFindExpression** (*find*, *column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
find	String being searched for
column	String specifying the column to search in

Return value

String. Returns the expression for use with the Find function if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_BuildFindExpression function (n_cst_dwsrv_find)

This example is from the pfc_FindNext event:

```
...

//Build the Find expression.
is_findexpression = &
        of_BuildFindExpression(inv_findattrib.is_find, &
       inv_findattrib.is_lookdata &
          [inv_findattrib.ii_lookindex])
IF is_findexpression = '!' THEN Return 0
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_CompareAttrib function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2115')}
```

Description

Reports whether the user has made changes to specifications on the w_replace dialog box.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_CompareAttrib** (*findattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
findattrib	n_cst_findattrib instance containing find information

Return value

Boolean. Returns TRUE if there are no changes and FALSE if changes were made.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_CompareAttrib function (n_cst_dwsrv_find)

This example is from the of_IsOnGoingFind function:

```
...

If IsValid(anv_findattrib) Then
        IF NOT of_CompareAttrib(anv_findattrib) THEN
       Return FALSE
        END IF
END IF

Return True
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_Find function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2117')}
```

Description

Searches for a value using the specified column, start row, and end row.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Find** ({ *column*, *findstring*, *startrow*, *endrow* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
column (optional)	String specifying the column to be searched
findstring (optional)	String to be searched for
startrow (optional)	Long specifying the row at which to start the search
endrow (optional)	Long specifying the row at which to end the search

Return value

Long. Returns the number of the first row containing *findstring* if the function succeeds, 0 if *findstring* is not found, or -1 if an error occurs.

Usage

Call this function to search for a string within a DataWindow. If you call this function with no arguments, PFC uses arguments from the previously specified of_Find function.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_Find function (n_cst_dwsrv_find)

This example is from the of_Replace function:

```
...

CASE 'char'
        IF of_Find(as_colname, inv_findattrib.is_find, &
       al_row, al_row) = al_row THEN
          //Get the entire string.
          ls_find = idw_requestor.GetItemString &
             (al_row, as_colname)
       li_find_startpos = &
          Pos(Lower(ls_find), &
             Lower(inv_findattrib.is_find))
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_FindStartAndEndRows function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2119')}
```

Description

Determines the start and end row for a find.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_FindStartAndEndRows** (*startrow*, *endrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
startrow	Long into which the function places the start row (passed by reference)
endrow	Long into which the function places the end row (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if the last row is reached, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_FindStartAndEndRows function (n_cst_dwsrv_find)

This example is from the of_Find function:

```
...

ls_colname = &
```

```
        inv_findattrib.is_lookdata &
       [inv_findattrib.ii_lookindex]

//Determine the start and end rows for the find.
li_rc = of_FindStartAndEndRows &
       (ll_startrow, ll_endrow)
IF li_rc <= 0 THEN
        ib_ongoingfind = FALSE
        Return 0
END IF
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_GetColumnEditStatus function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2121')}
```

Description

Determines the edit status (editable, display-only, or protected) of the specified row/column location.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_GetColumnEditStatus** (*column*, *row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
column	String specifying the column to test
row	String specifying the row to test

Return value

String. Returns values as follows:

- **Editable** The row/column is editable
- **Displayonly** The row/column is display-only
- **Protected** The row/column is not editable
- **!** An error occurred

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetColumnEditStatus function (n_cst_dwsrv_find)

This example is from the pfc_Replace event:

```
...

//Get the column edit status.
ls_coleditstatus = &
        of_GetColumnEditStatus(ls_colname, ll_currrow)
```

```
//Determine if the current row/col can be replaced.
IF ls_coleditstatus = 'editable' THEN
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetInfo function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2123')}
```

Description

Retrieves find service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_GetInfo function (n_cst_dwsrv_find)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_find.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetPropertyInfo function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2125')}
```

Description

Retrieves information about the find service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
propertyobject	n_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetPropertyInfo function (n_cst_dwsrv_find)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_find.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_IncludeComputes function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2127')}
```

Description

Determines whether computed fields are included in a search that uses the pfc_FindDlg event.

Access

Public

Syntax

instancename.**of_IncludeComputes** (*ab_switch*)

Argument	Description
instancename	Instance name of n_cst_dwsrv_find
ab_switch	Boolean. If value is TRUE, computed fields will be included in subsequent searches

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function before the pfc_FindDlg event is triggered.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_IncludeComputes function (n_cst_dwsrv_find)

This example calls the of_IncludeComputes function:

```
dw_emp.inv_find.of_IncludeComputes (true)
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_Initialize function (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')} {button Examples,JI(`>Examples',`id_pfcoref_2129')}

Description

Initializes the inv_findattrib instance with the passed values.

Access

Public

Syntax

instancename.**of_Initialize** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_dwsrv_find
findattrib	n_cst_findattrib instance containing find information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when the inv_findattrib default values are not appropriate.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_Initialize function (n_cst_dwsrv_find)

This example calls the of_Initialize function:

```
// Display the Find/Replace windows with


// The Direction Control only.
n_cst_findattrib lnv_findattrib

lnv_findattrib.is_find = ''
lnv_findattrib.is_replacewith = ''
lnv_findattrib.ib_wholewordvisible =False
lnv_findattrib.ib_wholewordenabled =False
```

```
lnv_findattrib.ib_wholeword = False
lnv_findattrib.ib_matchcasevisible = False
lnv_findattrib.ib_matchcaseenabled = False
lnv_findattrib.ib_matchcase = False
lnv_findattrib.ib_directionvisible = True
lnv_findattrib.ib_directionenabled = True
lnv_findattrib.is_direction = 'Down'
lnv_findattrib.ib_lookvisible = False
lnv_findattrib.ib_lookenabled = False

dw_emp.inv_find.of_Initialize(lnv_findattrib)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_IsAllowFindDlg function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2131')}
```

Description

Reports whether the Find dialog box is allowed.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsAllowFindDlg** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)

Return value

Boolean. Returns TRUE if the Find dialog box is allowed and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_IsAllowFindDlg function (n_cst_dwsrv_find)

This example calls the of_IsAllowFindDlg function:

```
IF NOT dw_1.inv_find.of_IsAllowFindDlg() THEN

   MessageBox("Find", "Find is not allowed")
ELSE
   MessageBox("Find", "Find is allowed")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_IsAllowReplaceDlg function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2133')}
```

Description

Reports whether the Replace dialog box is allowed.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsAllowReplaceDlg** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)

Return value

Boolean. Returns TRUE if the Replace dialog box is allowed and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_IsAllowReplaceDlg function (n_cst_dwsrv_find)

This example calls the of_IsAllowReplaceDlg function:

```
IF NOT dw_1.inv_find.of_IsAllowReplaceDlg() THEN

   MessageBox("Replace", "Replace is not allowed")
ELSE
   MessageBox("Replace", "Replace is allowed")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_IsOngoingFind function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2135')}
```

Description

Reports whether the current find operation is a new Find or Find Next operation.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_IsOngoingFind** (*findattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find
findattrib	N_cst_findattrib instance containing find information

Return value

Boolean. Returns TRUE if the current find is the same as before and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_IsOngoingFind function (n_cst_dwsrv_find)

This example is from the pfc_FindNext event:

```
String     ls_findexp

Long       ll_row

IF ib_ongoingfind THEN
//Determine if this continues as an ongoing Find.
        ib_ongoingfind = &
       of_IsOngoingFind(anv_findattrib)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_Replace function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2137')}
```

Description

Replaces the specified row/column with the specified text.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_Replace** (*row*, *column*, *replacewith*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
row	Long specifying the row containing the column whose text is to be replaced
column	String specifying the column whose text is to be replaced
replacewith	String specifying the new text

Return value

Integer. Returns 1 if the function succeeds, -2 if *replacewith* is not a valid value for *column*, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_Replace function (n_cst_dwsrv_find)

This example is from the pfc_Replace event:

```
...

is_findexpression = &
        of_BuildFindExpression &
       (inv_findattrib.is_find, ls_colname)
IF is_findexpression = '!' THEN Return 0
IF idw_requestor.GetColumnName() = &
        ls_colname THEN
       // Replace the selected text.
       li_rc = of_Replace(ll_currrow, &
          ls_colname, &
             inv_findattrib.is_replacewith)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SelectText function (n_cst_dwsrv_find)

```
{button Object,JI(`>main',`cdedabbi')} {button
Examples,JI(`>Examples',`id_pfcoref_2139')}
```

Description

Selects the appropriate text at the specified row/column location. This function works for all column types, including dropdown DataWindows, dropdown listboxes, and edit masks.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_SelectText** (*column*, *row*, *matchcase*, *find*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
column	String specifying the column name
row	Long specifying the row number
matchcase	Boolean indicating whether the search is case-sensitive
find	String specifying the find string

Return value

Integer. Returns 1 if the function succeeds and 0 if text selection is not appropriate.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SelectText function (n_cst_dwsrv_find)

This example is from the of_Find function:

```
...

ls_coleditstatus = &
        of_GetColumnEditStatus(ls_colname, li_rowfound)
IF ls_coleditstatus = &
        'editable' OR ls_coleditstatus='readonly' THEN
       of_SelectText(ls_colname, li_rowfound, &
          inv_findattrib.ib_matchcase, &
             inv_findattrib.is_find)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_SetAllowFindDlg function (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')} {button Examples,JI(`>Examples',`id_pfcoref_2141')}

Description

Controls whether the Find dialog box is allowed.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetAllowFindDlg** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
boolean	Boolean specifying whether the Find dialog is allowed (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetAllowFindDlg function (n_cst_dwsrv_find)

This example calls the of_SetAllowFindDlg function:

```
dw_1.inv_find.of_SetAllowFindDlg(FALSE)
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetAllowReplaceDlg function (n_cst_dwsrv_find)

{button Object,JI(`>main',`cdedabbi')} {button Examples,JI(`>Examples',`id_pfcoref_2143')}

Description

Specifies whether the Replace dialog box is allowed.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetAllowReplaceDlg** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_find (the u_dw default is inv_find)
boolean	Boolean specifying whether the Replace dialog is allowed (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_SetAllowReplaceDlg function (n_cst_dwsrv_find)

This example calls the of_SetAllowReplaceDlg function:

```
dw_1.inv_find.of_SetAllowReplaceDlg(FALSE)
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_dwsrv_linkage

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2145')} {button Functions,JI(`>list_win',`id_pfcoref_2162')} {button Events,JI(`>list_win',`id_pfcoref_2147')} {button Instance variables,JI(`>list_win',`id_pfcoref_2146')}

Description

Service for linking DataWindow actions. This is typically used for Master/Detail processing.

N_cst_dwsrv_linkage contains the following features:

Linkage style Controls whether detail DataWindows retrieve rows, filter rows, or scroll to the appropriate row

Update style Controls how n_cst_dwsrv_linkage updates DataWindows (top-down, bottom-up, top-down then bottom-up, bottom-up then top-down, or a developer-specified custom update)

Custom update Allows you to specify a customized update sequence

Delete style When you delete a master row, this option specifies whether n_cst_dwsrv_linkage deletes detail rows, discards detail rows, or leaves them alone

Cascading key changes N_cst_dwsrv_linkage automatically updates detail DataWindows when you change a key value on the master

Update on row change When the master changes rows, this option updates the database with modifications made to detail DataWindows (retrieval style only)

Confirm on row change When the master changes rows, this option displays a confirmation dialog box if modifications made to detail DataWindows will be lost (retrieval style only)

Confirm on delete Displays a confirmation dialog box when the user deletes rows (retrieval style only)

Extended update Allows you to integrate other controls (such as ListViews, TreeViews, and DataStores) into the default save process

N_cst_dwsrv_linkage is completely integrated with n_cst_luw and with the w_master pfc_Save process.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_linkageattrib

n_cst_platform

n_cst_propertyattrib

n_tr

Usage

Use this service to coordinate processing between related DataWindows.

You can specify the action taken by a detail DataWindow when row focus changes on the master. When row focus changes on the master DataWindow, the detail can:

Retrieve a new set of rows

Set a filter

Scroll to a new row

If you share data, don't add rows in the detail You can use the PowerScript ShareData function to share data between master and detail DataWindows. However, do not insert rows into the detail when sharing data,.

To use this service to control Master/Detail processing using columns in the master DataWindow as retrieval arguments for the detail DataWindow:

1 Enable the linkage service for the master DataWindow:

```
dw_master.of_SetLinkage(TRUE)
```

2 Enable the linkage service for the detail DataWindow:

```
dw_detail.of_SetLinkage(TRUE)
```

3 In the detail DataWindow, link to the Master:

```
dw_detail.inv_linkage.of_SetMaster(dw_master)
```

4 Register the related columns:

```
dw_detail.inv_linkage.of_Register &

  ("emp_id", "emp_id")
```

5 Establish the action taken in the detail when row focus changes in the master (this example retrieves a new set of rows):

```
dw_detail.inv_linkage.of_SetStyle &

  (dw_detail.inv_linkage.RETRIEVE)
```

6 Establish the transaction object for all DataWindows in the linkage chain by calling the linkage service's of_SetTransObject function for the top-level DataWindow:

```
dw_master.inv_linkage.of_SetTransObject(SQLCA)
```

7 Add retrieval logic to the DataWindows' pfc_Retrieve events (with the retrieval style, you only need to code pfc_Retrieve for the master DataWindow):

```
Return this.Retrieve()
```

8 Call the master DataWindow's of_Retrieve function:

```
IF dw_master.of_Retrieve() = -1 THEN

            MessageBox("Error", "Retrieval error")
ELSE
            dw_master.SetFocus()
END IF
```

9 Call other linkage service functions as needed.

Start from the top When you want an action to ripple down through the chain of linked DataWindows, call the function in the topmost DataWindow.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

n_cst_dwsrv_linkage

n_cst_luw

u_dw

w_master

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_cst_dwsrv_linkage

{button Functions,JI(`>list_win',`id_pfcoref_2162')} {button Events,JI(`>list_win',`id_pfcoref_2147')}

N_cst_dwsrv_linkage includes instance variables for Internal:

Instance variable	Description	Data type	Access	Usage
BOTTOMUP	Constant set to 2	Integer	Public	Use with of_SetUpdateStyle
BOTTOMUP_TOPDOWN	Constant set to 4	Integer	Public	Use with of_SetUpdateStyle
CUSTOM	Constant set to 101	Integer	Public	Use with of_SetUpdateStyle
DELETE_ROWS	Constant set to 1	Integer	Public	Use with of_SetDeleteStyle
DISCARD_ROWS	Constant set to 2	Integer	Public	Use with of_SetDeleteStyle
FAILURE	Constant set to -1	Integer	Public	Internal
FILTER	Constant set to 1	Integer	Public	Use with of_SetStyle
ib_confirmondelete	Indicates whether the user is prompted to confirm deletions	Boolean	Protected	Set with of_SetConfirmOn Delete
ib_confirmonrowchange	Indicates whether the user is prompted to confirm modifications	Boolean	Protected	Set with of_SetConfirmOn RowChange

ib_retrieving	Indicates whether the DataWindow is retrieving data	Boolean	Protected	Internal
ib_synconkeychange	Indicates whether the linkage service cascades key changes to detail DataWindows	Boolean	Protected	Set with of_SetSyncOn KeyChange
ib_updatebottomup	Obsolete. Use ii_updatestyle	Boolean	Protected	Obsolete
ib_updateonrowchange	Indicates whether the service updates details when the master's row changes (retrieval style only)	Boolean	Protected	Set with of_SetUpdateOn RowChange
idw_details[ ]	Array of all DataWindows that are details to this DataWindow	u_dw	Protected	Internal
idw_master	Master to this DataWindow	u_dw	Protected	Internal
ii_collinkuse	Indicates how PFC uses column links to refresh data: • 1 Filter • 2 Retrieve • 3 Scroll	Integer	Protected	Internal
ii_customupdate	Custom update indicator	Integer	Protected	Set with of_SetCustom Update
ii_deletestyle	Delete style indicator	Integer	Protected	Set with of_SetDeleteStyle
ii_updatestyle	Indicates how PFC performs updates	Integer	Protected	Internal
il_priorrow	Tracks rows	Long	Protected	Internal
inv_linkargs	Structure object containing linkage information	n_cst_ linkageattrib	Protected	Internal
inv_platform	Platform services	n_cst_platform	Protected	Internal
ipo_othersaveobjects[ ]	Additional controls to be updated when row focus changes	PowerObject	Protected	Set with of_SetOther SaveObjects
is_filterexp	Expression used to filter rows in detail DataWindows. This is used if ii_collinkuse is set to 1	String	Protected	Internal
is_keycols[ ]	Column that controls Master/Detail refresh processing. This is used if ii_collinkuse is set to 2	String	Protected	Internal
is_keycolsvalue[ ]	Saves keys	String	Protected	Internal
is_savesound	Sound file to be played for a successful save	String	Protected	Set with of_SetSaveSound
RETRIEVE	Constant set to 2	Integer	Public	Use with of_SetStyle
SCROLL	Constant set to 3	Integer	Public	Use with of_SetStyle
TOPDOWN	Constant set to 1	Integer	Public	Use with of_SetUpdateStyle
TOPDOWN_BOTTOMUP	Constant set to 3	Integer	Public	Use with of_SetUpdateStyle

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1

single source

n_cst_dwsrv_linkage

{button Functions,JI(`>list_win',`id_pfcoref_2162')} {button Instance variables,JI(`>list_win',`id_pfcoref_2146')}

- **Destructor event**
- **pfc_Clicked event**
- **pfc_DeleteRow event**
- **pfc_InsertRow event**
- **pfc_ItemChanged event**
- **pfc_ItemFocusChanged event**
- **pfc_PreDeleteRow event**
- **pfc_PreInsertRow event**
- **pfc_RButtonDown event**
- **pfc_RetrieveEnd event**
- **pfc_RetrieveStart event**
- **pfc_RowChanged event**
- **pfc_RowFocusChanged event**
- **pfc_RowFocusChanging event**

N_cst_dwsrv_linkage contains precoded user events:

Destructor	pfc_PreInsertRow
pfc_Clicked	pfc_RButtonDown
pfc_DeleteRow	pfc_RetrieveEnd
pfc_InsertRow	pfc_RetrieveStart
pfc_ItemChanged	pfc_RowChanged
pfc_ItemFocusChanged	pfc_RowFocusChanged
pfc_PreDeleteRow	pfc_RowFocusChanging

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

Destructor event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Destroys the platform service instance (inv_platform instance variable).

Usage

This event executes when the service is destroyed.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

pfc_Clicked event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Determines if focus is going to another row and continues, halts processing, or updates rows as appropriate.

Syntax

dwcontrol.*instancename*.EVENT **pfc_Clicked** (*x*, *y*, *row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
x	Integer indicating the *x* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_ypos* argument
row	Long indicating the clicked row. From within the pfc_Clicked event, access this value through the *al_row*argument
dwobject	DWObject variable indicating the clicked object. This argument is passed by reference. From within the pfc_Clicked event, access this value through the *adwo_obj* argument

Return value

Integer. Returns 1 to prevent focus from changing, 0 to continue processing, and -1 if an error occurs.

Usage

This event is called by the u_dw Clicked event.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

pfc_DeleteRow event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Notifies detail DataWindows that a row has been deleted and there is a new current row.

Syntax

dwcontrol.*instancename*.EVENT **pfc_DeleteRow** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row that was deleted. From within the pfc_DeleteRow event, access this value through the *al_row*argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw pfc_DeleteRow event calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

pfc_InsertRow event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Establishes key values for a newly inserted row.

Syntax

dwcontrol.instancename.Event **pfc_InsertRow** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row that was inserted. From within the pfc_InsertRow event, access this value through the *al_row*argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw pfc_InsertRow event calls this event.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_ItemChanged event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Synchronizes key values in detail DataWindows (if key synchronization is enabled via the of_SetSyncOnKeyChange function).

Syntax

*dwcontrol.instancename.*EVENT **pfc_ItemChanged** (*row*, *dwobject*, *data*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long indicating the number of the row in which the ItemChanged event occurred. From within the pfc_ItemChanged event, access this variable through the *al_row*argument
dwobject	DWObject variable indicating the changed item. From within the pfc_ItemChanged event, access this value through the *adwo_obj* argument
data	String containing the new data for the item.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw ItemChanged event calls this event.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_ItemFocusChanged event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Calls the of_ItemFocusChanged function.

Syntax

*dwcontrol.instancename.*EVENT **pfc_ItemFocusChanged** (*row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long indicating the number of the row in which the ItemFocusChanged event occurred. From within the pfc_ItemFocusChanged event, access this variable through the *al_row*argument
dwobject	DWObject variable indicating the changed item. From within the pfc_ItemFocusChanged event, access this value through the *adwo_obj* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw ItemFocusChanged event calls this event.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_PreDeleteRow event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Provides notification that a row may be deleted and prepares for possible deletion processing.

Syntax

*dwcontrol.instancename.*EVENT **pfc_PreDeleteRow** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the number of the row to be deleted

Return value

Integer. Returns 1 if the event succeeds, 0 if the delete should be prevented, and -1 if an error occurs.

Usage

The u_dw pfc_PreDeleteRow event calls this event.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

pfc_PreInsertRow event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Prepares for insertion processing.

Syntax

*dwcontrol.instancename.*EVENT **pfc_PreInsertRow** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the event succeeds, 0 if the insert should be prevented, and -1 if an error occurs.

Usage

The u_dw pfc_PreInsertRow event calls this event.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_RButtonDown event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Determines if focus is going to another row and updates rows as appropriate.

Syntax

*dwcontrol.instancename.*EVENT **pfc_RButtonDown** (*x*, *y*, *row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
x	Integer indicating the *x* position of the mouse click. From within the pfc_RButtonDown event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_RButtonDown event, access this value through the *ai_ypos* argument
row	Long indicating the number of the row in which the RButtonDown event occurred. From within the pfc_RButtonDown event, access this variable through the *al_row*argument
dwobject	DWObject variable indicating the clicked item. From within the pfc_RButtonDown event, access this value through the *adwo_obj* argument

Return value

Integer. Returns 1 to continue processing, 0 to prevent focus from changing, and -1 if an error occurs.

Usage

The u_dw RButtonDown event calls this event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

pfc_RetrieveEnd event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Resets the ib_retrieving instance variable.

Syntax

*dwcontrol.instancename.*EVENT **pfc_RetrieveEnd** (*rowcount*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
rowcount	Long specifying the number of rows retrieved

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw RetrieveEnd event calls this event.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

pfc_RetrieveStart event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Sets the ib_retrieving instance variable.

Syntax

*dwcontrol.instancename.*EVENT **pfc_RetrieveStart** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw RetrieveStart event calls this event.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

pfc_RowChanged event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Determines whether a row change requires a database update.

Syntax

*dwcontrol.instancename.*EVENT **pfc_RowChanged** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw RowChanged event calls this event.

When using the retrieval style and automatic updates, this event could be triggered without the benefit of a RowFocusChanging notification (for example, by a filter or sort action). With the Retrieve Style and ib_updateonrowchange = TRUE there is the possibility of data requiring updates before going to the new row. You should call of_Validation and of_Update to force these actions before performing the filter or sort.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

pfc_RowFocusChanged event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Notifies each of the detail DataWindows attached to the requester that row focus has changed and that the contents of the new current row require the DataWindows to be refreshed based on values in the requester's current row.

Syntax

dwcontrol.instancename.Event **pfc_RowFocusChanged** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the new row. From within the pfc_RowFocusChanged event, access this value through the *al_row*argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_dw RowFocusChanged event calls this event.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

pfc_RowFocusChanging event (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Updates the DataWindow before row focus changes, if enabled via the of_SetUpdateOnRowChange function.

Syntax

*dwcontrol.instancename.*EVENT **pfc_RowFocusChanging** (*previousrow*, *newrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
previousrow	Long specifying the previous row. From within the pfc_RowFocusChanging event, access this value through the *al_prevrow* argument
newrow	Long specifying the new row. From within the pfc_RowFocusChanging event, access this value through the *al_newrow* argument

Return value

Integer. Returns 1 if the event succeeds, 0 to prevent row focus from changing, and -1 if an error occurs.

Usage

The u_dw RowFocusChanging event calls this event.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_dwsrv_linkage

{button Events,JI(`>list_win',`id_pfcoref_2147')} {button Instance variables,JI(`>list_win',`id_pfcoref_2146')}

of_AcceptText function
of_CheckRequired function
of_ConfirmOnDelete function
of_ConfirmOnRowChange function
of_CreateUpdateSequence function
of_DeleteDetailRows function
of_DeleteRows function
of_FilterDetails function
of_FindRoot function
of_GetArguments function
of_GetCustomUpdate function
of_GetDeleteStyle function
of_GetDetails function
of_GetInfo function
of_GetMaster function
of_GetOtherSaveObjects function
of_GetPropertyInfo function
of_GetRegistered function
of_GetSaveSound function
of_GetStyle function
of_GetUpdateBottomUp function
of_GetUpdatesPending function
of_GetUpdateStyle function
of_GetUseColLinks function
of_GetValue function

of_IsConfirmOnDelete function
of_IsConfirmOnRowChange function
of_IsKey function
of_IsLinked function
of_IsRoot function
of_IsSyncOnKeyChange function
of_IsUpdateOnRowChange function
of_ItemFocusChanged function
of_KeyChanged function
of_KeySync function
of_LinkDetail function
of_LinkTo function
of_PostUpdate function
of_Refresh function
of_Register function
of_Reset function
of_ResetArguments function
of_ResetMaster function
of_ResetUpdate function
of_Retrieve function
of_RetrieveDetails function
of_Save function
of_ScrollDetails function
of_SetArguments function
of_SetConfirmOnDelete function
of_SetConfirmOnRowChange function
of_SetCustomUpdate function
of_SetDeleteStyle function
of_SetKeyCols function
of_SetKeyValues function
of_SetMaster function
of_SetOtherSaveObjects function
of_SetRedraw function
of_SetSaveSound function
of_SetStyle function
of_SetSyncOnKeyChange function
of_SetTransObject function
of_SetUpdateBottomUp function
of_SetUpdateOnRowChange function
of_SetUpdateRequestor function
of_SetUpdateStyle function
of_SetUseColLinks function

of_TriggerEvent function

of_UndoModified function

of_Unlink function

of_UnlinkDetail function

of_UnRegister function

of_Update function

of_UpdateBottomUp function

of_UpdateBottomUpAndTopDown function

of_UpdateCustom function

of_UpdateOnRowChange function

of_UpdatePrep function

of_UpdateTopDown function

of_UpdateTopDownAndBottomUp function

of_Validation function

N_cst_dwsrv_linkage includes precoded object functions:

of_AcceptText
of_CheckRequired
of_ConfirmOnRowChange
of_CreateUpdateSequence
of_DeleteDetailRows
of_DeleteRows
of_FilterDetails
of_FindRoot
of_GetArguments
of_GetCustomUpdate
of_GetDeleteStyle
of_GetDetails
of_GetInfo
of_GetMaster
of_GetOtherSaveObjects
of_GetPropertyInfo
of_GetRegistered
of_GetSaveSound
of_GetStyle
of_GetUpdateBottomUp
of_GetUpdatesPending
of_GetUpdateStyle
of_GetUseColLinks
of_GetValue
of_IsConfirmOnDelete
of_IsConfirmOnRowChange
of_IsKey
of_IsLinked
of_IsRoot
of_IsSyncOnKeyChange
of_IsUpdateOnRowChange
of_ItemFocusChanged
of_KeyChanged
of_KeySync
of_LinkDetail
of_ResetArguments
of_ResetMaster
of_ResetUpdate
of_Retrieve
of_RetrieveDetails
of_Save
of_ScrollDetails
of_SetArguments
of_SetConfirmOnDelete
of_SetConfirmOnRowChange
of_SetCustomUpdate
of_SetDeleteStyle
of_SetKeyCols
of_SetKeyValues
of_SetMaster
of_SetOtherSaveObjects
of_SetRedraw
of_SetSaveSound
of_SetStyle
of_SetSyncOnKeyChange
of_SetTransObject
of_SetUpdateBottomUp
of_SetUpdateOnRowChange
of_SetUpdateRequestor
of_SetUpdateStyle
of_SetUseColLinks
of_TriggerEvent
of_UndoModified
of_Unlink
of_UnlinkDetail
of_UnRegister
of_Update
of_UpdateBottomUp
of_UpdateBottomUpAndTopDown
of_UpdateCustom

of_LinkTo
of_PostUpdate
of_Refresh
of_Register
of_Reset
of_UpdateOnRowChange
of_UpdatePrep
of_UpdateTopDown
of_UpdateTopDownAndBottomUp
of_Validation

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_AcceptText function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2164')}

Description

Performs an AcceptText function for all DataWindows in the linkage chain, starting with the current DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AcceptText** ({ *focusonerror* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
focusonerror (optional)	Boolean indicating whether PFC sets focus to the DataWindow when an error occurs (the default is FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_dw calls this function as part of the default save process. This function is part of the self-updating object API.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_AcceptText function (n_cst_dwsrv_linkage)

This example is from the u_dw the of_AcceptText function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_AcceptText(ab_focusonerror)
Else
        li_rc = this.Event pfc_AcceptText(ab_focusonerror)
End If
...
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_CheckRequired function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2166')}
```

Description

Determines if any required columns contain NULL values in a specified row.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_CheckRequired** (*buffer*, *row*, *column*, *colname*, *updateonly*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
buffer	DWBuffer variable indicating the DataWindow buffer to check for required fields
row	Long specifying the number of the row to check. This argument also returns the number of the row in error (passed by reference)
column	Integer specifying the number of the first column to check. This argument also returns the number of the column in error (passed by reference)
colname	String into which the function places the name of the column in error (passed by reference)
updateonly	Boolean indicating whether you want to validate all rows and columns or only rows that have been inserted or modified

Return value

Integer. Returns 1 if there were columns with NULL values, 0 if there were no columns with NULL value, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_CheckRequired function (n_cst_dwsrv_linkage)

This example is from the of_Save function:

```
...

ll_checkrow = al_validaterow
        li_checkcolumn = 1
        li_rc = of_CheckRequired &
       (primary!, ll_checkrow, li_checkcolumn,  &
         ls_checkcolname, lb_updateonly)
...
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_ConfirmOnDelete function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2168')}
```

Description

Reports whether the linkage service displays a confirmation dialog box when rows are deleted.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ConfirmOnDelete** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if confirm on delete is required and FALSE if it is not.

Usage

This function is for retrieval style only. You do not typically call it directly.

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_ConfirmOnDelete function (n_cst_dwsrv_linkage)

This example is from the of_Save function:

```
...

If ab_prompt Then        If of_ConfirmOnDelete() Then
...
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_ConfirmOnRowChange function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2170')}
```

Description

Reports whether the linkage service displays a confirmation dialog box when a row change in a master DataWindow will causes updates to be lost in the detail DataWindow. This is accomplished by examining properties in the current DataWindow and the detail DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ConfirmOnRowChange** ( )

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if confirm on row change is required and FALSE if it is not.

Usage

This function is for retrieval style only. You do not typically call it directly.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_ConfirmOnRowChange function (n_cst_dwsrv_linkage)

This example is from the of_Save function:

```
...

If ab_prompt Then
        If of_ConfirmOnRowChange() Then
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_CreateUpdateSequence function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2172')}
```

Description

Retrieves an array containing the default top-down update sequence.

Access

Public

Syntax

dwcontrol.*instancename*.**of_CreateUpdateSequence** (*sequence*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
sequence	U_dw array into which the function places references to linked DataWindows in the default update sequence (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To determine the top-to-bottom sequence, access the array from the first element to the upper bound. To determine the bottom-up sequence, access the array from the upper bound down to one.

The linkage service uses this function to create a sequence for DataWindow updates.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_CreateUpdateSequence function (n_cst_dwsrv_linkage)

This example calls the of_CreateUpdateSequence function:

```
Integer   li_i

Integer   li_max
u_dw      ldw_updatedw[ ]

// Create an array of the linked DataWindows
IF of_CreateUpdateSequence &
        (ldw_updatedw) <> 1 THEN Return -1

// Get the number of DataWindows
li_max = UpperBound(ldw_updatedw)

// Loop thru the array backwards to create
// a reverse update sequence.
FOR li_i = li_max to 1 STEP -1
        // Update the DataWindow
        IF ldw_updatedw[li_i].Event pfc_Update &
       (FALSE, FALSE) <> 1 THEN Return -1
NEXT

Return 1
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_DeleteDetailRows function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2174')}
```

Description

Deletes detail rows when the corresponding master row is deleted.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DeleteDetailRows** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the number of rows deleted or discarded if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_DeleteDetailRows function (n_cst_dwsrv_linkage)

This example is from the pfc_DeleteRow event:

```
...

of_SetRedraw(False)
li_rc = of_DeleteDetailRows()
this.Event pfc_RowFocusChanged(al_row)
...
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_DeleteRows function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2176')}
```

Description

Deletes or discards current DataWindows rows corresponding to the deleted row in the master.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DeleteRows** (*delete*, *masterkeys*, *mastervalues*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
delete	Boolean whether to delete the rows (TRUE) or discard them (FALSE)
masterkeys	String array containing column names from the deleted master row
instancename	String array containing values from the deleted master row

Return value

Integer. Returns the number of rows deleted or discarded if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_DeleteRows function (n_cst_dwsrv_linkage)

This example is from the of_DeleteDetailRows function:

```
...

CASE DELETE_ROWS
  li_rc =  &
   idw_details[li_detail].inv_Linkage.of_DeleteRows &
```

```
     (True, is_keycols, is_keycolsvalue)
CASE DISCARD_ROWS
  li_rc = &
    idw_details[li_detail].inv_Linkage.of_DeleteRows &
      (False, is_keycols, is_keycolsvalue)
...
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_FilterDetails function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2178')}
```

Description

Filters detail DataWindows based on current row values in the detail's master.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_FilterDetails** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the current row of the master DataWindow control

Return value

Integer. Returns 1 if the function succeeds, 0 if refresh is not required, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_FilterDetails function (n_cst_dwsrv_linkage)

This example calls the of_FilterDetails function:

```
CHOOSE CASE of_GetStyle( )

        CASE FILTER
       Return of_FilterDetails(al_row)
        CASE RETRIEVE
       Return of_RetrieveDetails(al_row)
        CASE SCROLL
       Return of_ScrollDetails(al_row)
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_FindRoot function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2180')}
```

Description

Searches the linkage chain for the topmost DataWindow.

Access

Public

Syntax

dwcontrol.instancename.**of_FindRoot** (*root*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
root	U_dw-based DataWindow into which the function places a reference to the topmost DataWindow (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function from any DataWindow in the linkage chain.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_FindRoot function (n_cst_dwsrv_linkage)

This example calls the of_FindRoot function:

```
...

IF of_FindRoot(ldw_root) <> 1 THEN Return -2
...
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetArguments function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')}
```

Description

Obsolete. Call of_GetRegistered instead.

Access

Public

Syntax

dwcontrol.instancename.**of_GetArguments** (*linkageinfo*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
linkageinfo	N_cst_linkageattrib structure object into which the function places linkage information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_GetCustomUpdate function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2183')}

Description

Retrieves the current custom update attribute.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetCustomUpdate** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the current custom update attribute.

Usage

The linkage service architecture allows for multiple custom updates. Define an of_UpdateCustom function in the n_cst_dwsrv_linkage extension level object and call this function to determine the current custom update style.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetCustomUpdate function (n_cst_dwsrv_linkage)

This example calls the of_GetCustomUpdate function:

```
IF this.of_GetCustomUpdate() = 1 THEN

        Return this.of_UpdateBottomUp()
ELSE
        Return this.of_UpdateTopDown()
END IF
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetDeleteStyle function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2185')}
```

Description

Retrieves the current delete style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDeleteStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the current delete style:

- **0 or DEFAULT** Default deletion style
- **1 or DELETE_ROWS** Delete rows from the database
- **2 or DISCARD_ROWS** Discard rows from the DataWindow buffer

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetDeleteStyle function (n_cst_dwsrv_linkage)

This example calls the of_GetDeleteStyle function:

```
Integer  li_style


li_style =  &
   dw_orderitems.inv_linkage.of_GetDeleteStyle()
MessageBox("Delete Style", "Delete style is "  &
   + String(li_style))
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_GetDetails function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2187')}
```

Description

Creates an array containing references to all details for the current DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDetails** (*details*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (he u_dw default for this value is inv_linkage)
details	U_dw array into which the function places references to all details of *dwcontrol* (passed by reference)

Return value

Integer. Returns the number of elements in the *details* array.

Usage

Call this function from any DataWindow in the linkage chain.

When using the of_Unlink function along with this function, check that all the elements in the Linkage chain reference a u_dw object as you loop through the linkage chain. Note that the of_Unlink function does not remove elements from the PFC Linkage chain. It only changes the element references to point to a random section in memory.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_GetDetails function (n_cst_dwsrv_linkage)

This example calls the of_GetDetails function:

```
Integer   li_details

u_dw      ldw_details[ ]

li_details = &
        dw_emp.inv_linkage.of_GetDetails(idw_details)
...
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetInfo function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2189')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default for this is inv_linkage)
infoobject	n_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_GetInfo function (n_cst_dwsrv_linkage)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_linkage.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_GetMaster function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2191')}
```

Description

Retrieves a reference to the current DataWindows master.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetMaster** (*master*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
master	u_dw instance into which the function places a reference to the master DataWindow (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there is no master reference.

Usage

All but the topmost DataWindow in the linkage chain have a master DataWindow.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_GetMaster function (n_cst_dwsrv_linkage)

This example calls the of_GetMaster function:

```
u_dw  ldw_master


IF  &
  dw_orderitems.inv_linkage.of_GetMaster(ldw_master) &
    = 1 THEN
      MessageBox("Master", "Master is "  &
        + ldw_master.ClassName())
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetOtherSaveObjects function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2193')}
```

Description

Retrieves the list of other objects, which are also updated when the UpdateOnRowChange functionality is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetOtherSaveObjects** (*objects*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
objects	PowerObject array into which the function places the list of other objects

Return value

Integer. Returns the number of objects in the objects *array* if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetOtherSaveObjects function (n_cst_dwsrv_linkage)

This example calls the of_GetOtherSaveObjects function:

```
PowerObject  lpo_obj[]

Integer  li_count

dw_1.inv_linkage.of_GetOtherSaveObjects(lpo_obj)
FOR li_count = 1 to UpperBound(lpo_obj)
  lb_1.AddItem(lpo_obj[li_count].ClassName())
NEXT
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetPropertyInfo function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2195')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default for this is inv_linkage)
propertyobject	n_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_GetPropertyInfo function (n_cst_dwsrv_linkage)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_linkage.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetRegistered function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2197')}
```

Description

Retrieves the retrieval arguments that a master uses to populate a detail.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*linkattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default for this is inv_linkage)
linkattrib	N_cst_linkageattrib instance into which the function places linkage argument values (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function from a detail DataWindow to access the retrieval arguments used by its master (set with of_Register).

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_GetRegistered function (n_cst_dwsrv_linkage)

This example calls the of_GetRegistered function:

```
n_cst_linkageattrib  lnv_link

Integer  li_count

dw_salesorder.inv_linkage.of_GetRegistered  &
  (lnv_link)
FOR li_count =  &
  1 TO UpperBound(lnv_link.is_mastercolarg)
    lb_1.AddItem(lnv_link.is_mastercolarg[li_count])
NEXT
FOR li_count =  &
  1 TO UpperBound(lnv_link.is_detailcolarg)
    lb_2.AddItem(lnv_link.is_detailcolarg[li_count])
NEXT
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetSaveSound function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2199')}
```

Description

Retrieves the name of the sound file, if enabled, that is played after a successful save.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetSaveSound** ( )

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

String. Returns the name of the sound file played after a successful save (if enabled via the of_SetSaveSound function).

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_GetSaveSound function (n_cst_dwsrv_linkage)

This example calls the of_GetSaveSound function:

```
String  ls_sound

ls_sound = dw_cust.inv_linkage.of_GetSaveSound()
MessageBox("Sound", "Save sound is " + ls_sound)
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetStyle function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2201')}
```

Description

Retrieves the style for the current detail DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the style:

- **1 or FILTER** Filter style
- **2 or RETRIEVE** Column retrieval style
- **3 or SCROLL** Scroll style

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetStyle function (n_cst_dwsrv_linkage)

This example calls the of_GetStyle function:

```
Integer li_style


li_style = dw_orderitems.inv_linkage.of_GetStyle()
CHOOSE CASE li_style
CASE dw_orderitems.inv_linkage.FILTER
   MessageBox("Style", "Filter style")
CASE dw_orderitems.inv_linkage.RETRIEVE
   MessageBox("Style", "Retrieval style")
CASE dw_orderitems.inv_linkage.SCROLL
   MessageBox("Style", "Scroll style")
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_GetUpdateBottomUp function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_GetUpdateStyle instead.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_GetUpdateBottomUp** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if PFC performs updates from the bottom-up and FALSE if PFC performs updates from the top-down.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_GetUpdatesPending function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2204')}

Description

Determines if there are updates pending in this DataWindow or any DataWindow below this one in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetUpdatesPending** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns values as follows:

- 1 Updates are pending within the linkage chain
- 0 No updates pending within the linkage chain
- -1 An error occurred

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_GetUpdatesPending function (n_cst_dwsrv_linkage)

This example calls the of_GetUpdatesPending function:

```
...

li_rc = ldw_root.inv_linkage.of_GetUpdatesPending( )
IF li_rc = -1 THEN Return -1
...
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_GetUpdateStyle function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2206')}
```

Description

Retrieves the update style for the current DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetUpdateStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the update style:

- **1 or TOPDOWN**
- **2 or BOTTOMUP**
- **3 or TOPDOWN_BOTTOMUP**
- **4 or BOTTOMUP_TOPDOWN**
- **101 or CUSTOM**

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with

HelpNDoc

of_GetUpdateStyle function (n_cst_dwsrv_linkage)

This example calls the of_GetUpdateStyle function:

```
Integer  li_count


li_count = dw_cust.inv_linkage.of_GetUpdateStyle()
MessageBox("Update Style",  &
  + "Update style is " + String(li_count))
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetUseColLinks function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_GetStyle instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetUseColLinks** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns the retrieval style:

- **1 or FILTER** Filter style
- **2 or RETRIEVE** Column retrieval style
- **3 or SCROLL** Scroll style

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetValue function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_GetValue** (*row*, *column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	String specifying the row containing the item to be accessed
column	String specifying the column containing the item to be accessed

Return value

String. Returns the specified value in a format suitable for DataWindow expressions.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_IsConfirmOnDelete function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2210')}

Description

Reports whether the linkage service displays a dialog box asking the user to confirm deletions.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsConfirmOnDelete** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if confirm on delete is enabled and FALSE if it is not.

Usage

This applies only if the retrieval style is retrieve and update on row change has been enabled.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_IsConfirmOnDelete function (n_cst_dwsrv_linkage)

This example calls the of_IsConfirmOnDelete function:

```
IF dw_1.inv_linkage.of_IsConfirmOnDelete() = TRUE THEN

  MessageBox("Delete", "Confirm on delete enabled")
ELSE
  MessageBox("Delete", "Confirm on delete disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_IsConfirmOnRowChange function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2212')}
```

Description

Reports whether the linkage service displays a dialog box asking the user to confirm row changes in the master that might cause updates to be lost in the details.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsConfirmOnRowChange** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if confirm on row changed is enabled and FALSE if it is not.

Usage

This applies only if the retrieval style is retrieve and update on row change has been enabled.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_IsConfirmOnRowChange function (n_cst_dwsrv_linkage)

This example calls the of_IsConfirmOnRowChange function:

```
IF dw_1.inv_linkage.of_IsConfirmOnRowChange() =  &

  TRUE THEN
    MessageBox("Confirm on Row Change", "Enabled")
ELSE
  MessageBox("Confirm on Row Change", "Disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_IsKey function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2214')}
```

Description

Reports whether the specified column is a key column.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsKey** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
column	String specifying the column to be tested

Return value

Boolean. Returns TRUE if *column* is a key column and FALSE if it is not.

Usage

Specify key columns by calling the of_Register function.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_IsKey function (n_cst_dwsrv_linkage)

This example calls the of_IsKey function:

```
IF dw_1.inv_linkage.of_IsKey("cust_id") THEN

  MessageBox("ID", "Cust_id is registered")
ELSE
  MessageBox("ID", "Cust_id is not registered")
END IF
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_IsLinked function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2216')}
```

Description

Reports whether a DataWindow is linked.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsLinked** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if *dwcontrol* is part of a linkage chain and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_IsLinked function (n_cst_dwsrv_linkage)

This example calls the of_IsLinked function:

```
IF dw_emp.inv_linkage.of_IsLinked( ) THEN

        dw_emp.inv_linkage.of_Update( )
ELSE
        Return
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_IsRoot function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2218')}

Description

Reports whether the current DataWindow is the topmost in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRoot** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if *dwcontrol* is at the top of the linkage chain and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_IsRoot function (n_cst_dwsrv_linkage)

This example calls the of_IsRoot function:

```
Integer    li_i

Integer    li_numlinks
Integer    li_rc
String     ls_coldata
String     ls_filter

IF of_IsRoot() THEN Return -1
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_IsSyncOnKeyChange function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2220')}

Description

Reports whether the linkage service cascades key changes through detail DataWindows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsSyncOnKeyChange** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if the linkage service cascades key changes through detail DataWindows and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_IsSyncOnKeyChange function (n_cst_dwsrv_linkage)

This example calls the of_IsSyncOnKeyChange function:

```
IF dw_1.inv_linkage.of_IsSyncOnKeyChange() THEN

  MessageBox("SyncOnKeyChange", "Enabled")
ELSE
  MessageBox("SyncOnKeyChange", "Disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_IsUpdateOnRowChange function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2222')}
```

Description

Reports whether the linkage service automatically updates modified detail rows when row focus changes in the master. Applies to retrieval style only.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsUpdateOnRowChange** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns TRUE if update on row change is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_IsUpdateOnRowChange function (n_cst_dwsrv_linkage)

This example calls the of_IsUpdateOnRowChange function:

```
IF dw_1.inv_linkage.of_IsUpdateOnRowChange() THEN

  MessageBox("UpdateOnRowChange", "Enabled")
ELSE
  MessageBox("UpdateOnRowChange", "Disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_ItemFocusChanged function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2224')}
```

Description

Tracks the row number and name of the column with focus.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ItemFocusChanged** (*row*, *column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row with focus
column	String specifying the column with focus

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pfc_ItemFocusChanged event calls this function.

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_ItemFocusChanged function (n_cst_dwsrv_linkage)

This example calls the of_ItemFocusChanged function:

```
...

of_ItemFocusChanged(al_row, adwo_object.Name)
```

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_KeyChanged function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2226')}
```

Description

Updates detail DataWindows with changes to the master's key.

Access

Public

Syntax

dwcontrol.*instancename*.**of_KeyChanged** (*row*, *column*, *prevvalue*, *newvalue*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row number of the changed column in the master DataWindow
column	String specifying the key column in the master DataWindow
prevvalue	String containing the previous value
newvalue	Any containing the new value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Enable cascading key updates by calling of_SetSyncOnKeyChange.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_KeyChanged function (n_cst_dwsrv_linkage)

This example is from the pfc_ItemChanged event:

```
...

of_KeyChanged(al_row, ls_colname, is_focusval,  &
   la_newvalue)
...
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_KeySync function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2228')}
```

Description

Synchronizes all detail DataWindows to the new key value.

Access

Public

Syntax

dwcontrol.*instancename*.**of_KeySync** (*row*, *column*, *prevvalue*, *newvalue*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row number of the changed column in the master DataWindow
column	String specifying the key column in the master DataWindow
prevvalue	String containing the previous value
newvalue	Any containing the new value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_KeyChanged function calls this function.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_KeySync function (n_cst_dwsrv_linkage)

This example is from the of_KeyChanged function:

```
...

li_rc = idw_details[li_i].inv_Linkage.of_KeySync &
  (al_row, as_column, as_prevvalue, aa_newvalue)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_LinkDetail function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2230')}
```

Description

Adds the specified DataWindow to a master DataWindow's idw_details array.

Access

Public

Syntax

dwcontrol.*instancename*.**of_LinkDetail** (*detail*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
detail	U_dw-based DataWindow variable pointing to the detail DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The detail DataWindow's of_SetMaster function calls this function in the master DataWindow to establish the master/detail relationship.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_LinkDetail function (n_cst_dwsrv_linkage)

This example calls the of_LinkDetail function:

```
IF IsValid(adw_master) THEN

         IF IsValid ( adw_master.inv_Linkage ) THEN
        IF adw_master.inv_Linkage.of_LinkDetail &
           (idw_Requestor) = 1 THEN
              idw_master = adw_master
              Return 1
        END IF
         END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_LinkTo function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_SetMaster instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_LinkTo** (*master*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
master	DataWindow variable pointing to the master DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_PostUpdate function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2233')}

Description

Performs post update processing on all DataWindows in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_PostUpdate** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_dw calls this function as part of the default save process. This function is part of the self-updating object API.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_PostUpdate function (n_cst_dwsrv_linkage)

This example is from the u_dw of_PostUpdate function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_PostUpdate()
Else
        li_rc = this.Event pfc_postupdate()
End If
...
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_Refresh function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2235')}
```

Description

Refreshes detail DataWindows, based on the refresh type specified in the of_SetStyle function.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Refresh** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the current row in the requesting DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pfc_RowFocusChanged event calls this function when the current row changes in a master DataWindow. You do not typically call this function explicitly.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_Refresh function (n_cst_dwsrv_linkage)

This example is from the pfc_RowFocusChanged event:

```
...

li_rc = &
        idw_details[li_detail].inv_Linkage.of_Refresh &
       (al_row)
...
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_Register function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2237')}
```

Description

Establishes the columns that relate master and detail DataWindows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*mastercol*, *detailcol*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
mastercol	String specifying the column in the master DataWindow that is a linkage argument
detailcol	String specifying the column in the detail DataWindow that relates to *mastercol*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function from the detail DataWindow.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_Register function (n_cst_dwsrv_linkage)

This example calls the of_Register function:

```
dw_detail.inv_linkage.of_Register("id", "id")
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_Reset function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2239')}

Description

Clears data from the DataWindows in the linked chain, starting with the current DataWindow down through its linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Reset** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage).

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Reset function (n_cst_dwsrv_linkage)

This example calls the of_Reset function:

```
dw_department.inv_linkage.of_Reset( )
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_ResetArguments function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_UnRegister instead.

Access

Public

Syntax

dwcontrol.instancename.**of_ResetArguments** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_ResetMaster function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2242')}

Description

Unlinks the current detail DataWindow from its master.

Access

Public

Syntax

dwcontrol.instancename.**of_ResetMaster** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

After calling this function, the idw_master instance variable is NULL and should not be referenced.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_ResetMaster function (n_cst_dwsrv_linkage)

This example calls the of_ResetMaster function:

```
dw_1.inv_linkage.of_ResetMaster()
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_ResetUpdate function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2244')}

Description

Clears the update flags for the DataWindows in the linked chain, starting with this DataWindow down through its linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ResetUpdate** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to reset update flags after calling the of_Update function with the *resetflags* argument set to FALSE.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_ResetUpdate function (n_cst_dwsrv_linkage)

This example calls the of_ResetUpdate function if the of_Update function succeeds:

```
...

li_return = dw_master.inv_linkage.of_Update &
        (lb_accepttext, lb_reset_update)

IF li_return <> 1 THEN // Update failed
        ROLLBACK using SQLCA;
        IF SQLCA.SQLCODE <> 0 THEN
     MessageBox("RollBack Error", SQLCA.SQLErrText)
        ELSE
     MessageBox("Update Failed", "ROLLBACK Succeeded")
        END IF
ELSE
        COMMIT using SQLCA; // All updates succeeded
        IF SQLCA.SQLCODE <> 0 THEN
       MessageBox("Commit Error", SQLCA.SQLErrText)
       Return
        END IF
        dw_master.inv_linkage.of_ResetUpdate( )
END IF
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_Retrieve function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2246')}
```

Description

Retrieves the DataWindows in the linked chain, starting with this DataWindow down through the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Retrieve** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to coordinate retrieval among DataWindows in the linkage chain. You typically call this function from the uppermost DataWindow in the linkage chain. This function calls the DataWindow's pfc_Retrieve event.

For the retrieval style, you code a Retrieve function in the topmost DataWindow's pfc_Retrieve event. For the scroll and filter styles, you code a Retrieve function in each DataWindow's pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Retrieve function (n_cst_dwsrv_linkage)

This example calls the of_Retrieve function:

```
dw_cust.of_SetLinkage(TRUE)


dw_salesorder.of_SetLinkage(TRUE)
dw_orderitems.of_SetLinkage(TRUE)

dw_salesorder.inv_linkage.of_SetMaster(dw_cust)
dw_salesorder.inv_linkage.of_Register("id", "cust_id")
dw_orderitems.inv_linkage.of_SetMaster(dw_salesorder)
dw_orderitems.inv_linkage.of_Register("id", "id")

dw_salesorder.inv_linkage.of_SetStyle  &
   (dw_salesorder.inv_linkage.RETRIEVE)
dw_orderitems.inv_linkage.of_SetStyle  &
   (dw_orderitems.inv_linkage.RETRIEVE)
dw_cust.inv_linkage.of_SetTransObject(SQLCA)

dw_cust.inv_linkage.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_RetrieveDetails function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2248')}
```

Description

Retrieves rows for detail DataWindows based on the current row values in the detail's master.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RetrieveDetails** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the current row in the master DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_RetrieveDetails function (n_cst_dwsrv_linkage)

This example is from the of_Refresh function:

```
...

Choose Case of_GetStyle()
        Case FILTER
        Return of_FilterDetails(al_row)
        Case RETRIEVE
        Return of_RetrieveDetails(al_row)
        Case SCROLL
        Return of_ScrollDetails(al_row)
End Choose
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_Save function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2250')}
```

Description

Saves data for all DataWindows in the linkage chain as well as any other objects specified via the of_SetOtherSaveObjects function.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_Save** (*validaterow*, *prompt*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
validaterow	Long specifying the row to validate. Specify 0 if there is no row to validate
prompt	Boolean specifying whether the user should be prompted to save changes (TRUE) or changes should be saved automatically (FALSE)

Return value

Integer. Returns values as follows:

- **2** Canceled
- **1** Successful
- **0** Updates pending
- **-1** An error occurred

Usage

This function saves data by calling the associated window's pfc_SaveObjects function. It is called by n_cst_dwsrv_linkage events when update on row change is enabled.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_Save function (n_cst_dwsrv_linkage)

This example is from the pfc_RowChanged event:

```
...

If of_UpdateOnRowChange() Then
        li_rc = of_Save(0, False)
...
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_ScrollDetails function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2252')}
```

Description

Scrolls the DataWindows in the linked chain, starting with this DataWindow down through its linkage chain.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_ScrollDetails** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the current row in the master DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_ScrollDetails function (n_cst_dwsrv_linkage)

This example is from the of_Refresh function:

```
...

Choose Case of_GetStyle()
        Case FILTER
       Return of_FilterDetails(al_row)
        Case RETRIEVE
       Return of_RetrieveDetails(al_row)
        Case SCROLL
       Return of_ScrollDetails(al_row)
End Choose
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetArguments function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')}
```

Description

Obsolete. Call of_Register instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetArguments** (*mastercol*, *detailcol*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
mastercol	String specifying the column in the master DataWindow that is a linkage argument
detailcol	String specifying the column in the detail DataWindow that relates to *mastercol*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_SetConfirmOnDelete function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2255')}

Description

Specifies whether the linkage service prompts users when deleting rows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetConfirmOnDelete** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
boolean	Boolean specifying whether confirm on delete is enabled (TRUE) or disabled (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This specification only applies when using retrieval style and when you have enabled update on row change by calling of_SetUpdateOnRowChange(TRUE).

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetConfirmOnDelete function (n_cst_dwsrv_linkage)

This example calls the of_SetConfirmOnDelete function:

```
dw_orditems.inv_linkage.of_SetStyle  &

   (dw_orditems.inv_linkage.RETRIEVE)
dw_orditems.inv_linkage.of_SetConfirmOnRowChange(TRUE)
dw_orditems.inv_linkage.of_SetConfirmOnDelete(TRUE)
dw_orditems.inv_linkage.of_SetUpdateOnRowChange(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_SetConfirmOnRowChange function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2257')}

Description

Specifies whether the linkage service prompts users when changing rows in the master will result in lost changes in this DataWindow. This specification affects row focus changing in the current DataWindow and all DataWindows in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetConfirmOnRowChange** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
boolean	Boolean specifying whether confirm on row change is enabled (TRUE) or disabled (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in detail DataWindows. This specification only applies when using retrieval style and when you have enabled update on row change by calling of_SetUpdateOnRowChange(TRUE).

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_SetConfirmOnRowChange function (n_cst_dwsrv_linkage)

This example calls the of_SetConfirmOnRowChange function:

```
dw_orditems.inv_linkage.of_SetStyle  &

   (dw_orditems.inv_linkage.RETRIEVE)
dw_orditems.inv_linkage.of_SetConfirmOnRowChange(TRUE)
dw_orditems.inv_linkage.of_SetConfirmOnDelete(TRUE)
dw_orditems.inv_linkage.of_SetUpdateOnRowChange(TRUE)
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_SetCustomUpdate function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2259')}
```

Description

Specifies a custom update identifier.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetCustomUpdate** (*id*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
id	Integer from 1 to 9 specifying the custom update identifier

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when you need to establish more than one custom update sequence. Enable custom update by calling the of_SetUpdateStyle function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_SetCustomUpdate function (n_cst_dwsrv_linkage)

This example calls the of_SetCustomUpdate function:

```
dw_cust.inv_linkage.of_SetCustomUpdate(9)
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetDeleteStyle function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2261')}

Description

Specifies the deletion style for this DataWindow's detail DataWindows. The deletion style controls whether the of_DeleteRows function leaves detail DataWindows alone, deletes detail rows from the database, or discards detail rows from the DataWindow buffer.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDeleteStyle** (*style*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
style	Integer specifying the delete style: • **0 or DEFAULT** Detail rows remain when you delete a row in the master • **1 or DELETE_ROWS** Deletes all rows of all corresponding detail DataWindows • **2 or DISCARD_ROWS** Discards rows from the DataWindow buffer for all rows or all corresponding detail DataWindows

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function for master DataWindows to control how detail rows are affected when a master row is deleted.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetDeleteStyle function (n_cst_dwsrv_linkage)

This example calls the of_SetDeleteStyle function:

```
dw_cust.inv_linkage.of_SetDeleteStyle  &

   (dw_cust.inv_linkage.DISCARD_ROWS)
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetKeyCols function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2263')}
```

Description

Establishes key columns on the master DataWindow. When the user changes data in a key column, the linkage service refreshes detail DataWindows automatically.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetKeyCols** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
column	String specifying the column in the master DataWindow that contains a linkage argument

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetKeyCols function (n_cst_dwsrv_linkage)

This example calls the of_SetKeyCols function:

```
...

Return idw_master.inv_Linkage.of_SetKeyCols &
        (as_masterarg)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetKeyValues function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2265')}
```

Description

Retrieves key column values from the master DataWindow and sets the new value in detail DataWindow rows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetKeyValues** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
row	Long specifying the row in the master DataWindow that contains the new value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_SetKeyValues function (n_cst_dwsrv_linkage)

This example calls the of_SetKeyValues function:

```
...

integer   li_rc

// Set the Key values for the new row.
li_rc = of_SetKeyValues(al_row)

Return li_rc...
```

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetMaster function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2267')}
```

Description

Links this DataWindow to the specified master DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetMaster** (*masterdw*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
masterdw	U_dw-based DataWindow variable referencing the master DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_SetMaster function (n_cst_dwsrv_linkage)

This example calls the of_SetMaster function:

```
dw_salesorder.inv_linkage.of_SetMaster(dw_cust)

dw_salesorder.inv_linkage.of_Register("id", "cust_id")
dw_orderitems.inv_linkage.of_SetMaster(dw_salesorder)
dw_orderitems.inv_linkage.of_Register("id", "id")
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetOtherSaveObjects function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2269')}
```

Description

Specifies other objects to be updated when update on row change is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetOtherSaveObjects** (*objects*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
objects	PowerObject array containing objects to be updated when row focus changes

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to enable DataWindows and other PowerBuilder controls to be updated when row focus changes. This specification only applies when using retrieval style and when you have enabled update on row change by calling of_SetUpdateOnRowChange(TRUE).

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_SetOtherSaveObjects function (n_cst_dwsrv_linkage)

This example calls the of_SetOtherSaveObjects function:

```
PowerObject  lpo_objs[ ]


lpo_objs[1] = lv_salesinfo
dw_cust.inv_linkage.of_SetOtherSaveObjects(lpo_objs)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_SetRedraw function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2271')}
```

Description

Sets redraw for this DataWindow and all detail DataWindows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRedraw** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) redraw

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_SetRedraw function (n_cst_dwsrv_linkage)

This example calls the of_SetRedraw function:

```
dw_cust.inv_linkage.of_SetRedraw(FALSE)
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_SetSaveSound function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2273')}

Description

Specifies the name of a sound file to play after a successful save.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSaveSound** (*soundfile*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
soundfile	String specifying the name of the sound file to play after a successful save

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To disable the save sound, set *soundfile* to an empty string. This feature is only used with the retrieval style.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_SetSaveSound function (n_cst_dwsrv_linkage)

This example calls the of_SetSaveSound function:

```
dw_cust.inv_linkage.of_SetSaveSound("slurp.wav")
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_SetStyle function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2275')}

Description

Specifies how the linkage service refreshes detail DataWindows:

- **Filter** The linkage service uses column links to build a filter and apply it to detail DataWindows
- **Retrieve** The linkage service uses column links as arguments to detail DataWindows
- **Scroll** The linkage service uses column links scroll detail DataWindows to the proper row

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetStyle** (*style*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
style	Integer or n_cst_dwsrv_linkage constant specifying the style: • **1 or FILTER** • **2 or RETRIEVE** • **3 or SCROLL**

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Detail DataWindows call this function to specify how their rows are displayed.

If you will be updating rows through these DataWindows, it's best to use filter or scroll.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetStyle function (n_cst_dwsrv_linkage)

This example calls the of_SetStyle function:

```
dw_salesorder.inv_linkage.of_SetStyle  &

   (dw_salesorder.inv_linkage.RETRIEVE)
dw_orderitems.inv_linkage.of_SetStyle  &
   (dw_orderitems.inv_linkage.RETRIEVE)
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetSyncOnKeyChange function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2277')}
```

Description

Specifies whether the linkage service cascades key changes through detail DataWindows .

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSyncOnKeyChange** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
boolean	Boolean indicating whether key changes are cascaded through detail DataWindows (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function for every DataWindow in the linkage chain.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_SetSyncOnKeyChange function (n_cst_dwsrv_linkage)

This example calls the of_SetSyncOnKeyChange function:

```
dw_cust.inv_linkage.of_SetSyncOnKeyChange(TRUE)

dw_salesorder.inv_linkage.of_SetSyncOnKeyChange(TRUE)
dw_orderitems.inv_linkage.of_SetSyncOnKeyChange(TRUE)
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_SetTransObject function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2279')}
```

Description

Sets the Transaction object for all DataWindows in the linked chain, from this DataWindow, on down through its linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetTransObject** (*transaction*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
transaction	N_tr variable specifying the Transaction object to use for the DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function on the top-level DataWindow to establish a Transaction object for DataWindows in the linkage chain.

Don't use the SetTransObject PowerScript function Because this function calls the u_dw of_SetTransObject function, which establishes variables for use by other DataWindow services, call this function to specify a DataWindow's Transaction object instead of the SetTransObject PowerScript function.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetTransObject function (n_cst_dwsrv_linkage)

This example calls the of_SetTransObject function. It assumes you have associated n_tr with SQLCA in the Application painter:

```
dw_master.inv_linkage.of_SetTransObject(SQLCA)
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetUpdateBottomUp function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_SetUpdateStyle instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUpdateBottomUp** (*direction*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
direction	Boolean indicating whether to update DataWindows from the bottom-up (TRUE) or from the top-down (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_SetUpdateOnRowChange function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2282')}

Description

Specifies whether the linkage service automatically updates modified detail rows when row focus changes in the master.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUpdateOnRowChange** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function for detail DataWindows.

The update on row change feature is only enabled when using the retrieval style.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_SetUpdateOnRowChange function (n_cst_dwsrv_linkage)

This example calls the of_SetUpdateOnRowChange function:

```
dw_salesorder.inv_linkage.of_SetUpdateOnRowChange  &

  (TRUE)
dw_orderitems.inv_linkage.of_SetUpdateOnRowChange  &
  (TRUE)
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_SetUpdateRequestor function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2284')}
```

Description

Calls the u_dw of_SetUpdateRequestor function for each DataWindow in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
requestor	PowerObject containing the object requesting the update

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_SetUpdateRequestor function (n_cst_dwsrv_linkage)

This example is from the of_SetUpdateRequestor function:

```
...

If IsNull(idw_details[li_i].inv_Linkage) Or &
        Not IsValid ( idw_details[li_i].inv_Linkage Then
 Return -1
END IF
li_rc =  &
 idw_details[li_i].inv_Linkage.of_SetUpdateRequestor &
   (apo_updaterequestor)
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetUpdateStyle function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2286')}

Description

Specifies the update style.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUpdateStyle** (*updatestyle*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
updatestyle	Integer or n_cst_dwsrv_linkage constant specifying the update style: • **1 or TOPDOWN** • **2 or BOTTOMUP** • **3 or TOPDOWN_BOTTOMUP** • **4 or BOTTOMUP_TOPDOWN** • **101 or CUSTOM**

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The update style controls the order in which the linkage service updates DataWindows in the linkage chain.

If you specify a custom update style, you must also create and code an of_UpdateCustom function in the n_cst_dwsrv_linkage extension-level object. This function then updates the DataWindows in the desired order.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_SetUpdateStyle function (n_cst_dwsrv_linkage)

This example calls the of_SetUpdateStyle function:

```
dw_cust.inv_linkage.of_SetUpdateStyle  &

   (dw_cust.inv_linkage.TOPDOWN)
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_SetUseColLinks function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_SetStyle instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUseColLinks** (*linktype*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
linktype	Integer specifying the linkage type: • 1 PFC uses columns in the master DataWindow as filter criteria for detail DataWindows • 2 PFC uses columns in the master DataWindow as retrieval arguments for the detail DataWindow • 3 PFC uses columns in the master DataWindow to control scrolling in the detail DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_TriggerEvent function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2289')}

Description

Triggers the specified user event in the DataWindows in the linked chain, starting with this DataWindow down through its linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_TriggerEvent** (*userevent*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
userevent	String containing the name of a valid user event for the DataWindow control

Return value

Integer. Returns 1 if the function succeeds, -1 if *userevent* did not exist (or had no code) in at least one DataWindow, and -2 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_TriggerEvent function (n_cst_dwsrv_linkage)

This example calls the of_TriggerEvent function:

```
dw_master.inv_linkage.of_TriggerEvent  &

   ("ue_custom_update")
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_UndoModified function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2291')}
```

Description

Undoes pending changes to the requesting DataWindow or to all the DataWindows in the linkage chain.

Access

Public

Syntax

***dwcontrol.instancename.*of_UndoModified ({ *ab_all*})**

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
ab_all	Boolean to indicate whether or not the changes should be undone in the entire linkage chain or only in the requesting DataWindow: TRUE—Changes undone in entire linkage chain FALSE—Changes undone in requesting DataWindow

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You do not need to enter an argument to restrict the Undo operation to the requesting DataWindow.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_UndoModified function (n_cst_dwsrv_linkage)

This example undoes pending changes in all the DataWindows in the linkage chain:

```
dw_master.inv_linkage.of_UndoModified (TRUE)
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_Unlink function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')}

Description

Obsolete. Call of_ResetMaster instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Unlink** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_UnlinkDetail function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2294')}

Description

Removes the specified DataWindow from a master DataWindow's idw_details array.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnlinkDetail** (*detaildatawindow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
detaildatawindow	U_dw DataWindow variable pointing to the detail DataWindow to be unlinked

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_UnlinkDetail function (n_cst_dwsrv_linkage)

This example is from the of_ResetMaster function:

```
...

If idw_master.inv_Linkage.of_UnlinkDetail  &
  (idw_Requestor) <> 1 Then
     Return -1
End If
...
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_UnRegister function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2296')}
```

Description

Removes the current DataWindow from the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You cannot call this function on the topmost DataWindow in the linkage chain.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_UnRegister function (n_cst_dwsrv_linkage)

This example calls the of_UnRegister function:

```
dw_orderitems.inv_linkage.of_UnRegister()
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_Update function (n_cst_dwsrv_linkage)

{button Object,JI(`>main',`cdecacbh')} {button Examples,JI(`>Examples',`id_pfcoref_2298')}

Description

Updates the linked DataWindows in the direction specified in the of_SetUpdateStyle function. Depending on the arguments specified, this function calls the PowerScript AcceptText function before calling the Update function. You can also specify whether to clear each DataWindow's update flags.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Update** ({ *accepttext* {, *resetflags* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
accepttext (optional)	Boolean indicating whether the DataWindow control should automatically perform an AcceptText before performing the update: TRUE—Perform AcceptText (default) FALSE—Do not perform AcceptText
resetflags (optional)	Boolean indicating whether *dwcontrol* should automatically reset the update flags: TRUE—Reset the flags (default) FALSE—Do not reset the flags

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_dw calls this function as part of the default save process. This function is part of the self-updating object API.

If *resetflags* is FALSE, the function does not reset the DataWindows' update flags. If the function succeeds, you should reset these flags by calling the of_ResetUpdate function.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_Update function (n_cst_dwsrv_linkage)

This example is from the u_dw of_Update function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_Update  &
      (ab_accepttext, ab_resetflag)
Else
        li_rc = this.Event pfc_Update  &
      (ab_accepttext, ab_resetflag)
End If
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1

single source

of_UpdateBottomUp function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2300')}
```

Description

Updates the DataWindow in the linked chain, starting with the current DataWindow and going up the chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateBottomUp** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function is called by the of_Update function when you have previously specified bottom-up update direction by calling of_SetUpdateStyle(BOTTOMUP). You don't typically call this function explicitly.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_UpdateBottomUp function (n_cst_dwsrv_linkage)

This example is from the of_Update function:

```
...

CHOOSE CASE ii_updatestyle
CASE TOPDOWN
        li_rc = of_UpdateTopDown()
CASE BOTTOMUP
        li_rc = of_UpdateBottomUp()
CASE TOPDOWN_BOTTOMUP
...
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_UpdateBottomUpAndTopDown function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2302')}
```

Description

Updates the DataWindow in the linked chain, starting with the current DataWindow and going up the chain (performing deletes) and then starting with the top DataWindow and going down the chain

(performing inserts and updates).

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateBottomUpAndTopDown** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function is called by the of_Update function when you have previously specified bottom-up/top-down update direction by calling of_SetUpdateStyle(BOTTOMUP_TOPDOWN). You don't typically call this function explicitly.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_UpdateBottomUpAndTopDown function (n_cst_dwsrv_linkage)

This example is from the of_Update function:

```
...

CHOOSE CASE ii_updatestyle
CASE TOPDOWN
        li_rc = of_UpdateTopDown()
CASE BOTTOMUP
        li_rc = of_UpdateBottomUp()
CASE TOPDOWN_BOTTOMUP
        li_rc = of_UpdateTopDownAndBottomUp()
CASE BOTTOMUP_TOPDOWN
        li_rc = of_UpdateBottomUpAndTopDown()
CASE CUSTOM
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_UpdateCustom function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2304')}
```

Description

Empty function that contains custom update processing.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateCustom** (*id*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)
id	Integer identifying the custom update, as specified in a previously called of_SetCustomUpdate function

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Update function calls this function when you set the update style to Custom via the of_SetUpdateStyle function.

You must implement an of_UpdateCustom function in the n_cst_dwsrv_linkage extension level object. This function checks the passed argument (if there are multiple custom update possibilities) and updates DataWindows in the appropriate order.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_UpdateCustom function (n_cst_dwsrv_linkage)

This example is from the of_Update function:

```
...

CHOOSE CASE ii_updatestyle
CASE TOPDOWN
        li_rc = of_UpdateTopDown()
CASE BOTTOMUP
        li_rc = of_UpdateBottomUp()
CASE TOPDOWN_BOTTOMUP
        li_rc = of_UpdateTopDownAndBottomUp()
CASE BOTTOMUP_TOPDOWN
        li_rc = of_UpdateBottomUpAndTopDown()
CASE CUSTOM
        li_rc = of_UpdateCustom(ii_customupdate)
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_UpdateOnRowChange function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2306')}
```

Description

Polls the current DataWindow and all detail DataWindows to see whether any updates are required before changing rows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateOnRowChange** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Boolean. Returns TRUE if updates are required and FALSE if they are not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_UpdateOnRowChange function (n_cst_dwsrv_linkage)

This example is from the pfc_DeleteRow event:

```
...

If of_UpdateOnRowChange() Then
        li_rc = of_Save(0, FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_UpdatePrep function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2308')}
```

Description

Prepares all linked DataWindows for update.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdatePrep** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

U_dw calls this function as part of the default save process. This function is part of the self-updating object API.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_UpdatePrep function (n_cst_dwsrv_linkage)

This example is from the u_dw of_UpdatePrep function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_UpdatePrep()
Else
        li_rc = this.Event pfc_UpdatePrep()
End If
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_UpdateTopDown function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2310')}
```

Description

Updates the DataWindow in the linked chain, starting with the current DataWindow and going down the chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateTopDown** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function is called by the of_Update function when you have previously specified top-down update direction by calling of_SetUpdateStyle(TOPDOWN). You don't typically call this function explicitly.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_UpdateTopDown function (n_cst_dwsrv_linkage)

This example is from the of_Update function:

```
...

CHOOSE CASE ii_updatestyle
CASE TOPDOWN
        li_rc = of_UpdateTopDown()
CASE BOTTOMUP
        li_rc = of_UpdateBottomUp()
CASE TOPDOWN_BOTTOMUP

...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_UpdateTopDownAndBottomUp function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2312')}
```

Description

Updates the DataWindows in the linked chain, starting with the top DataWindow and going down the chain (performing inserts and updates) and then starting with the bottom DataWindow and going up the chain (performing deletes).

Access

Public

Syntax

dwcontrol.*instancename*.**of_UpdateTopDownAndBottomUp** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function is called by the of_Update function when you have previously specified top-down/bottom-up update direction by calling of_SetUpdateStyle(TOPDOWN_BOTTOMUP). You don't typically call this function explicitly.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_UpdateTopDownAndBottomUp function (n_cst_dwsrv_linkage)

This example is from the of_Update function:

```
...

CASE TOPDOWN
        li_rc = of_UpdateTopDown()
CASE BOTTOMUP
        li_rc = of_UpdateBottomUp()
CASE TOPDOWN_BOTTOMUP
        li_rc = of_UpdateTopDownAndBottomUp()
CASE BOTTOMUP_TOPDOWN
        li_rc = of_UpdateBottomUpAndTopDown()
...
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_Validation function (n_cst_dwsrv_linkage)

```
{button Object,JI(`>main',`cdecacbh')} {button
Examples,JI(`>Examples',`id_pfcoref_2314')}
```

Description

Performs validation on all DataWindows in the linkage chain.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Validation** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_linkage (the u_dw default is inv_linkage)

Return value

Integer. Returns 1 if the function succeeds and -1 if a validation error occurs.

Usage

U_dw calls this function as part of the default save process. This function is part of the self-updating object API.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_Validation function (n_cst_dwsrv_linkage)

This example is from the u_dw of_Validation function:

```
...

If IsValid(inv_linkage) Then
        li_rc = inv_linkage.of_Validation()
Else
        li_rc = this.Event pfc_Validation()
End If
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

n_cst_dwsrv_multitable

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2316')}
{button Functions,JI(`>list_win',`id_pfcoref_2318')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2317')}
```

Description

A collection of functions that facilitate update operations for DataWindows that contain rows from more than one table.

N_cst_dssrv_multitable is the same as n_cst_dwsrv_multitable N_cst_dssrv_multitable, the DataStore multitable update service object, is almost identical to n_cst_dwsrv_multitable except that it applies to DataStores instead of DataWindow controls. Except where noted, references to n_cst_dwsrv_multitable in the following discussions apply equally to n_cst_dssrv_multitable.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

Use this object to handle update operations for multiple tables within a DataWindow.

To use this service:

1 Enable the service using the u_dw of_SetMultiTable function:

```
dw_project.of_SetMultiTable(TRUE)
```

2 Call the of_Register function once for each table to be updated in a multitable update:

```
String  ls_projcols[ ] = {"project_proj_id"}

String  ls_taskcols[ ] =  &
   {"task_proj_id", "task_task_id"}

dw_project.inv_multitable.of_Register &
            ("project", ls_projcols)
dw_project.inv_multitable.of_Register &
```

```
("task", ls_taskcols)
```

3 Update all specified tables by calling the w_master pfc_Save event:

```
Integer    li_return


li_return = w_projlist.Event pfc_Save( )
```

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_dwsrv_multitableattrib custom class user object (n_cst_dssrv_multitableattrib for n_cst_dssrv_multitable) replaces the os_updcharacteristics object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

n_cst_dwsrv_multitable

n_cst_dwsrv_rowmanager

n_cst_dwsrv_linkage

u_dw

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

n_cst_dwsrv_multitable

{button Functions,JI(`>list_win',`id_pfcoref_2318')}

N_cst_dwsrv_multitable includes the following instance variable:

Instance variable	Description	Data type	Access	Usage
inv_newupdate [ ] (replaces istr_newupdate[ ])	Used to control multiple updates	n_cst_dwsrv_multitableattrib (n_cst_dssrv_multitableattrib for n_cst_dssrv_multitable)	Protected	Internal

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_dwsrv_multitable

{button Instance variables,JI(`>list_win',`id_pfcoref_2317')}

of_AddToUpdate function

of_GetInfo function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetRegisterableColumn function

of_GetRegisterableTable function

of_GetRegistered function

of_IsRegistered function

of_Register function

of_RestoreUpdateSettings function

of_StoreUpdateSettings function

of_UnRegister function

of_Update function

N_cst_dwsrv_multitable includes precoded object functions:

- of_AddToUpdate
- of_GetInfo
- of_GetPropertyInfo
- of_GetRegisterable
- of_GetRegisterableColumn
- of_GetRegisterableTable
- of_GetRegistered
- of_IsRegistered
- of_Register
- of_RestoreUpdateSettings
- of_StoreUpdateSettings
- of_UnRegister
- of_Update

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_AddToUpdate function (n_cst_dwsrv_multitable)

{button Object,JI(`>main',`caidijjg')}

Description

Obsolete. Call of_Register instead.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddToUpdate** (*table*, *keycolumns* {, *updateablecols* {, *keyinplace*, *whereoption* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
table	String specifying the table name
keycolumns	String array containing the key columns used for update
updateablecols (optional)	String array containing the list of updatable columns (the default is all columns in the DataWindow)
keyinplace (optional)	Boolean indicating whether to update the key in place (TRUE) or delete and reinsert (FALSE) (the default is FALSE). If you specify this argument, you must also specify *whereoption*
whereoption (optional)	Integer specifying the DataWindow Update Where option: • 0 Key columns • 1 Key and updatable columns • 2 Key and modified columns If you specify this argument, you must also specify *keyinplace*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetInfo function (n_cst_dwsrv_multitable)

{button Object,JI(`>main',`caidijjg')} {button Examples,JI(`>Examples',`id_pfcoref_2321')}

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_GetInfo function (n_cst_dwsrv_multitable)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_multitable.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2323')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)

propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information:

Not in n_cst_dssrv_multitable This function is not implemented in n_cst_dssrv_multitable.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_GetPropertyInfo function (n_cst_dwsrv_multitable)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_multitable.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetRegisterable function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2325')}
```

Description

Retrieves an array of columns in the current DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
columns	String array into which the function places a list of columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Usage

The DataWindow Properties window calls this function.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_GetRegisterable function (n_cst_dwsrv_multitable)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop
li_loop =  &
   dw_1.inv_multitable.of_GetRegisterable  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registerable columns")
END IF
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_GetRegisterableColumn function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2327')}
```

Description

Retrieves all registerable columns for the passed table.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterableColumn** (*table*, *columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
table	String specifying the name of the table
columns	String array into which the function places all registerable columns for *table* (passed by reference)

Return value

Integer. Returns the number of elements in the *columns* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetRegisterableColumn function (n_cst_dwsrv_multitable)

This example calls the of_GetRegisterableColumn function:

```
String  ls_cols[ ]

Integer  li_count, li_loop

li_count =  &
  dw_1.inv_multitable.of_GetRegisterableColumn  &
    ("employee", ls_cols)
lb_1.Reset()
FOR li_loop = 1 to li_count
        lb_1.AddItem(ls_cols[li_loop])
NEXT
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetRegisterableTable function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2329')}
```

Description

Retrieves an array of registerable tables whose columns are used in the current DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterableTable** (*tables*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
tables	String array into which the function places the names of tables whose columns are used in the current DataWindow (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetRegisterableTable function (n_cst_dwsrv_multitable)

This example calls the of_GetRegisterableTable function:

```
String  ls_tables[ ]

Integer  li_count, li_loop

li_count =  &
  dw_1.inv_multitable.of_GetRegisterableTable  &
   (ls_tables)
```

```
lb_1.Reset()
FOR li_loop = 1 to li_count
        lb_1.AddItem(ls_tables[li_loop])
NEXT
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_GetRegistered function (n_cst_dwsrv_multitable)

{button Object,JI(`>main',`caidijjg')} {button Examples,JI(`>Examples',`id_pfcoref_2331')}

Description

Retrieves information on registered columns for a specified table.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
columns	String array into which the function places a list of registered columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetRegistered function (n_cst_dwsrv_multitable)

This example calls the of_GetRegistered function:

```
String  ls_empkey[ ]

String  ls_updatable[ ]
Boolean  lb_keyinplace
Integer  li_whereoption
Integer  li_count, li_loop

li_count =  &
  dw_1.inv_multitable.of_GetRegistered  &
    ("employee", ls_empkey, ls_updatable,  &
      lb_keyinplace, li_whereoption)
lb_1.Reset()
FOR li_loop = 1 to li_count
        lb_1.AddItem(ls_empkey[li_loop])
NEXT
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_IsRegistered function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2333')}
```

Description

Reports whether a table is registered.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*table*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
table	String specifying the table to be checked

Return value

Boolean. Returns TRUE if *table* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_IsRegistered function (n_cst_dwsrv_multitable)

This example calls the of_IsRegistered function:

```
IF NOT dw_1.inv_multitable.of_IsRegistered  &

  ("department") THEN
    Return -1
END IF
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_Register function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2335')}
```

Description

Registers a table (and its corresponding update characteristics) with the multitable update service.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*table*, *keycolumns*
{, *updatablecolumns* {, *keyinplace*, *whereoption* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
table	String specifying the table to be registered
keycolumns	String array specifying the key columns for *table*
updatablecolumns (optional)	String array specifying updatable columns for *table*. The default is all columns
keyinplace (optional)	Boolean specifying whether to update the key in place (TRUE) or delete then insert if the key changes (FALSE) (the default is FALSE). If you specify this argument, you must also specify *whereoption*
whereoption (optional)	Integer specifying the WHERE option: • **0** Key columns only • **1** Key columns and all updatable columns (default) • **2** Key and modified columns If you specify this argument, you must also specify *keyinplace*

Return value

Integer. Returns the 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function after enabling the multitable update service.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_Register function (n_cst_dwsrv_multitable)

This example calls the of_Register function:

```
String  ls_empcols[ ] = {"employee_emp_id"}

String  ls_deptcols[ ] = {"department_dept_id"}

dw_1.of_SetMultiTable(TRUE)
dw_1.inv_multitable.of_Register &
        ("employee", ls_empcols)
dw_1.inv_multitable.of_Register &
        ("department", ls_deptcols)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_RestoreUpdateSettings function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2337')}
```

Description

Restores DataWindow update characteristics.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RestoreUpdateSettings** (*settings*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is

	inv_multitable)
settings	Os_updcharacteristics structure containing the update characteristics

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_RestoreUpdateSettings function (n_cst_dwsrv_multitable)

This example calls the of_RestoreUpdateSettings function:

```
...

li_rc = &
        of_RestoreUpdateSettings(lstr_originalupdate)
IF li_rc < 0 THEN Return li_rc
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_StoreUpdateSettings function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2339')}
```

Description

Stores DataWindow update characteristics.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_StoreUpdateSettings** (*settings*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
settings	Os_updcharacteristics structure containing the update characteristics

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_StoreUpdateSettings function (n_cst_dwsrv_multitable)

This example calls the of_StoreUpdateSettings function:

```
...

li_rc = &
        of_StoreUpdateSettings(lstr_originalupdate)
IF li_rc < 0 THEN Return li_rc
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_UnRegister function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2341')}
```

Description

Removes one or all tables from the list of tables handled by the multitable update service.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** ({ *table* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
table (optional)	String specifying the name of the table to be unregistered. If you omit this argument, the function unregisters all tables

Return value

Integer. Returns the number of tables unregistered if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_UnRegister function (n_cst_dwsrv_multitable)

This example calls the of_UnRegister function:

```
dw_1.inv_multitable.of_UnRegister  &

  ("department")
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_Update function (n_cst_dwsrv_multitable)

```
{button Object,JI(`>main',`caidijjg')} {button
Examples,JI(`>Examples',`id_pfcoref_2343')}
```

Description

Saves rows for all registered tables in the DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Update** ({ *accept* {, *resetflag* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_multitable (the u_dw default is inv_multitable)
accept (optional)	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database. The default is TRUE
resetflag (optional)	Boolean indicating whether the Update function resets the update flags. The default is TRUE

Return value

Integer. Returns 1 if the function succeeds, -1 if an update error occurs, and -2 for all other errors.

Usage

Call this function to update all tables registered with the service.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_Update function (n_cst_dwsrv_multitable)

This example is from the u_dw pfc_Update event:

```
...

IF IsValid (inv_multitable) THEN
        li_rc = inv_multitable.of_update  &
      (ab_accepttext, ab_resetflag)
ELSE
        li_rc = this.Update(ab_accepttext, ab_resetflag)
END IF

...
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

n_cst_dwsrv_printpreview

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2345')}
{button Functions,JI(`>list_win',`id_pfcoref_2346')}
```

Description

Contains functions that allow you to control print preview. When this service is enabled, menus that

descend from PFC's m_master menu have automatic access to print preview functionality (such as zoom, first page, last page, previous page, and next page).

N_cst_dssrv_printpreview is the same as n_cst_dwsrv_printpreview N_cst_dssrv_printpreview, the DataStore print preview service object is identical to n_cst_dwsrv_printpreview except that it applies to DataStores instead of DataWindow controls. Except where noted, references to n_cst_dwsrv_printpreview in the following discussions apply equally to n_cst_dssrv_printpreview.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

n_cst_string

Usage

Use this object to provide DataWindow print preview functionality.

To use this service:

1 Enable the service using the u_dw of_SetPrintPreview function:

```
dw_emp.of_SetPrintPreview(TRUE)
```

2 Toggle print preview mode by calling the u_dw pfc_PrintPreview event:

```
dw_emp.Event pfc_PrintPreview()
```

3 Call other print preview functions as needed.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

n_cst_dwsrv_printpreview

n_cst_dwsrv_report

u_dw

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

n_cst_dwsrv_printpreview

of_FirstPage function

of_GetEnabled function

of_GetInfo function

of_GetPropertyInfo function

of_GetRuler function

of_GetZoom function

of_LastPage function

of_Page function

of_PageAcross function

of_PageCount function

of_PageCountAcross function

of_SetEnabled function

of_SetRuler function

of_SetZoom function

N_cst_dwsrv_printpreview contains precoded object functions:

of_FirstPage	of_Page
of_GetEnabled	of_PageAcross
of_GetInfo	of_PageCount
of_GetPropertyInfo	of_PageCountAcross
of_GetRuler	of_SetEnabled
of_GetZoom	of_SetRuler
of_LastPage	of_SetZoom

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_FirstPage function (n_cst_dwsrv_printpreview)

{button Object,JI(`>main',`cdecjedc')} {button Examples,JI(`>Examples',`id_pfcoref_2348')}

Description

Scrolls to the first page.

Access

Public

Syntax

dwcontrol.instancename.**of_FirstPage** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Not in n_cst_dssrv_printpreview This function is not implemented in n_cst_dssrv_printpreview.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_FirstPage function (n_cst_dwsrv_printpreview)

This example calls the of_FirstPage function:

```
dw_emplist.inv_printpreview.of_FirstPage( )
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetEnabled function (n_cst_dwsrv_printpreview)

{button Object,JI(`>main',`cdecjedc')} {button Examples,JI(`>Examples',`id_pfcoref_2350')}

Description

Reports whether the DataWindow is in print preview mode.

Access

Public

Syntax

dwcontrol.instancename.**of_GetEnabled** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Boolean. Returns TRUE if the DataWindow is in print preview mode and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetEnabled function (n_cst_dwsrv_printpreview)

This example calls the of_GetEnabled function:

```
IF NOT dw_emp.inv_printpreview.of_GetEnabled() THEN

        dw_emp.inv_printpreview.of_SetEnabled(TRUE)
END IF
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetInfo function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2352')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetInfo function (n_cst_dwsrv_printpreview)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info
```

```
dw_1.inv_printpreview.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetPropertyInfo function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2354')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Not in n_cst_dssrv_printpreview This function is not implemented in n_cst_dssrv_printpreview.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetPropertyInfo function (n_cst_dwsrv_printpreview)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_printpreview.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetRuler function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2356')}
```

Description

Reports whether a ruler is displayed.

Access

Public

Syntax

dwcontrol.instancename.**of_GetRuler** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Boolean. Returns TRUE if the ruler is displayed and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetRuler function (n_cst_dwsrv_printpreview)

This example calls the of_GetRuler function:

```
IF NOT dw_emp.inv_printpreview.of_GetRuler ( ) THEN

        dw_emp.inv_printpreview.of_SetEnabled(TRUE)
END IF
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_GetZoom function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2358')}
```

Description

Retrieves the current zoom factor.

Access

Public

Syntax

dwcontrol.instancename.**of_GetZoom** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns the current zoom percentage if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_GetZoom function (n_cst_dwsrv_printpreview)

This example calls the of_GetZoom function:

```
Integer    li_zoom


li_zoom = dw_emp.inv_printpreview.of_GetZoom( )
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_LastPage function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2360')}
```

Description

Scrolls to the last page.

Access

Public

Syntax

dwcontrol.instancename.**of_LastPage** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Not in n_cst_dssrv_printpreview This function is not implemented in n_cst_dssrv_printpreview.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_LastPage function (n_cst_dwsrv_printpreview)

This example calls the of_LastPage function:

```
dw_emplist.inv_printpreview.of_LastPage( )
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_Page function (n_cst_dwsrv_printpreview)

{button Object,JI(`>main',`cdecjedc')} {button Examples,JI(`>Examples',`id_pfcoref_2362')}

Description

Retrieves the number of the current page.

Access

Public

Syntax

dwcontrol.instancename.**of_Page** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns the number of the current page if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_Page function (n_cst_dwsrv_printpreview)

This example calls the of_Page function:

```
Integer    li_page


li_page = dw_emp.inv_printpreview.of_Page( )
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_PageAcross function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2364')}
```

Description

Retrieves the number of the current horizontal page.

Access

Public

Syntax

dwcontrol.instancename.**of_PageAcross** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns the number of the current horizontal page if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_PageAcross function (n_cst_dwsrv_printpreview)

This example calls the of_PageAcross function:

```
Integer    li_page


li_page = dw_emp.inv_printpreview.of_PageAcross( )
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_PageCount function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2366')}
```

Description

Retrieves the total number of pages.

Access

Public

Syntax

dwcontrol.instancename.**of_PageCount** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns the total number of pages if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_PageCount function (n_cst_dwsrv_printpreview)

This example calls the of_PageCount function:

```
Integer    li_total


li_total = dw_emp.inv_printpreview.of_PageCount( )
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_PageCountAcross function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2368')}
```

Description

Retrieves the total number of horizontal pages.

Access

Public

Syntax

dwcontrol.instancename.**of_PageCountAcross** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)

Return value

Integer. Returns the total number of horizontal pages if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_PageCountAcross function (n_cst_dwsrv_printpreview)

This example calls the of_PageCountAcross function:

```
Integer   li_total

li_total = &
        dw_emp.inv_printpreview.of_PageCountAcross( )
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetEnabled function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2370')}
```

Description

Controls a DataWindow's print preview setting.

Access

Public

Syntax

dwcontrol.instancename.**of_SetEnabled** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)
boolean	Boolean specifying whether to place the DataWindow in print preview mode (TRUE) or normal view (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetEnabled function (n_cst_dwsrv_printpreview)

This example calls the of_SetEnabled function to place the dw_emp DataWindow into print preview mode:

```
String    ls_return

ls_return = &
        dw_emp.inv_printpreview.of_SetEnabled(TRUE)
IF ls_return <> "" THEN
        MessageBox("Print Preview Error", ls_return)
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetRuler function (n_cst_dwsrv_printpreview)

```
{button Object,JI(`>main',`cdecjedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2372')}
```

Description

Controls ruler display.

Access

Public

Syntax

dwcontrol.instancename.**of_SetRuler** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)
boolean	Boolean specifying whether to display the ruler (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_SetRuler function (n_cst_dwsrv_printpreview)

This example calls the of_SetRuler function:

```
IF NOT dw_emp.inv_printpreview.of_GetRuler() THEN

        dw_emp.inv_printpreview.of_SetRuler(TRUE)
```

```
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetZoom function (n_cst_dwsrv_printpreview)

{button Object,JI(`>main',`cdecjedc')} {button Examples,JI(`>Examples',`id_pfcoref_2374')}

Description

Controls zoom factor.

Access

Public

Syntax

dwcontrol.instancename.**of_SetZoom** ({ *zoompercentage* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_printpreview (the u_dw default is inv_printpreview)
zoompercentage (optional)	Integer specifying the DataWindow's zoom percentage. If you omit this argument, the w_zoom dialog box displays allowing the user to specify the zoom percentage

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetZoom function (n_cst_dwsrv_printpreview)

This example calls the of_SetZoom function, displaying the w_zoom dialog box:

```
dw_emp.inv_printpreview.of_SetZoom( )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

n_cst_dwsrv_property

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2376')} {button Functions,JI(`>list_win',`id_pfcoref_2380')} {button Events,JI(`>list_win',`id_pfcoref_2378')} {button Instance variables,JI(`>list_win',`id_pfcoref_2377')}

Description

DataWindow property object.

Ancestry

Library

PFCUTIL.PBL

PFEUTIL.PBL

Object relationships

n_cst_dwpropertyattrib

n_cst_infoattrib

n_cst_metaclass

n_cst_propertyattrib

w_dwproperty

w_dwpropertyservice

Usage

U_dw uses this object to control the DataWindow Properties window.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

n_cst_dwsrv_property

u_dw

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

n_cst_dwsrv_property

{button Functions,JI(`>list_win',`id_pfcoref_2380')} {button Events,JI(`>list_win',`id_pfcoref_2378')}

Instance variable	Description	Data type	Access	Usage
iw_property	Reference to w_dwproperty window	w_dwproperty	Protected	Internal
iw_dwpropertyservices	Reference to w_dwpropertyservices window	w_dwpropertyservices	Protected	Internal

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

n_cst_dwsrv_property

{button Functions,JI(`>list_win',`id_pfcoref_2380')} {button Instance variables,JI(`>list_win',`id_pfcoref_2377')}

Destructor event

N_cst_dwsrv_property includes one precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

Destructor event (n_cst_dwsrv_property)

{button Object,JI(`>main',`ccjcebaf')}

Description

Performs cleanup.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_cst_dwsrv_property

{button Events,JI(`>list_win',`id_pfcoref_2378')} {button Instance variables,JI(`>list_win',`id_pfcoref_2377')}

of_IsPropertyOpen function

of_OpenProperty function

of_OpenPropertyService function

N_cst_debug includes precoded functions:

of_IsPropertyOpen
of_OpenProperty
of_OpenPropertyService

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_IsPropertyOpen function (n_cst_dwsrv_property)

{button Object,JI(`>main',`ccjcebaf')} {button Examples,JI(`>Examples',`id_pfcoref_2382')}

Description

Reports whether either the w_dwproperty window or the w_dwpropertyservices dialog box is open.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsPropertyOpen** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_property (the u_dw default is either inv_property or snv_property)

Return value

Integer. Returns TRUE if either w_dwproperty or w_dwpropertyservices is open and FALSE if neither is open.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_IsPropertyOpen function (n_cst_dwsrv_property)

This example is from the u_dw RButtonUp event:

```
...

If IsValid(inv_property) Then
        If inv_property.of_IsPropertyOpen() = False Then
       lm_dw.m_table.m_debug.visible = True
       lm_dw.m_table.m_debug.enabled = True
        End If
...
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_OpenProperty function (n_cst_dwsrv_property)

```
{button Object,JI(`>main',`ccjcebaf')} {button
Examples,JI(`>Examples',`id_pfcoref_2384')}
```

Description

Opens the w_dwproperty window.

Access

Public

Syntax

dwcontrol.*instancename*.**of_OpenProperty** (*properties*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_property (the u_dw default is either inv_property or snv_property)
properties	N_cst_dwpropertyattrib instance containing properties to display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_OpenProperty function (n_cst_dwsrv_property)

This example is from the u_dw pfc_Properties event:

```
...

If IsValid(inv_property) Then
        inv_property.of_OpenProperty(lnv_dwproperty)
        Else
        snv_property.of_OpenProperty(lnv_dwproperty)
        End If
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_OpenPropertyService function (n_cst_dwsrv_property)

```
{button Object,JI(`>main',`ccjcebaf')} {button
Examples,JI(`>Examples',`id_pfcoref_2386')}
```

Description

Opens the w_dwpropertyservice dialog box for the specified service.

Access

Public

Syntax

dwcontrol.*instancename*.**of_OpenPropertyService** (*service*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_property (the u_dw default is either inv_property or snv_property)
service	PowerObject containing the service to be displayed in the w_dwpropertyservice dialog box

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_OpenPropertyService function (n_cst_dwsrv_property)

This example calls the of_OpenPropertyService function:

```
PowerObject  lpo_service


lpo_service = dw_1.inv_multitable
dw_1.inv_property.of_OpenPropertyService(lpo_service)
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

n_cst_dwsrv_querymode

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2388')}
{button Functions,JI(`>list_win',`id_pfcoref_2393')} {button
Events,JI(`>list_win',`id_pfcoref_2390')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2389')}
```

Description

Service to enable and disable query mode. Includes the ability to save and load queries.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

n_cst_selection

Usage

Use this object's functions to control DataWindow query mode processing. In particular, the of_Save and of_Load functions make it easy to access and save queries in a file.

To use this service:

1 Enable the service using the u_dw of_SetQuerymode function:

```
dw_emplist.of_SetQuerymode(TRUE)
```

2 Specify the columns eligible for query mode:

```
String    ls_cols[]


ls_cols[1] = "emp_dept_id"
```

```
ls_cols[2] = "emp_id"
dw_emplist.inv_querymode.of_SetQueryCols &
            (ls_cols)
```

3 Call query mode functions as needed.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_dwsrv_querymodeattrib custom class user object replaces the os_querymodeinfo object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

n_cst_dwsrv_querymode

n_cst_dwsrv_filter

n_cst_dwsrv_sort

u_dw

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

n_cst_dwsrv_querymode

{button Functions,JI(`>list_win',`id_pfcoref_2393')} {button Events,JI(`>list_win',`id_pfcoref_2390')}

N_cst_dwsrv_querymode includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_resetquerycriteria	Indicates whether PFC resets query criteria between query mode toggles	Boolean	Protected	Internal
ib_retrieveondisabled	Indicates whether PFC automatically retrieves the DataWindow when query mode is disabled	Boolean	Protected	Internal
inv_querymodeinfo[ ]	Stores querymode information for each of the DataWindow's columns	n_cst_dwsrv_query modeattrib	Protected	Internal

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

n_cst_dwsrv_querymode

{button Functions,JI(`>list_win',`id_pfcoref_2393')} {button Instance variables,JI(`>list_win',`id_pfcoref_2389')}

pfc_Operators event

pfc_Values event

N_cst_dwsrv_querymode includes precoded events:

pfc_Operators

pfc_Values

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

pfc_Operators event (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')}

Description

Displays a selection dialog box, prompting the user to select an operator (=, >=, <=, and so on) for use in query mode criteria.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the selection dialog box, and -1 if an error occurs.

Usage

This event is called when the user clicks the right mouse button over the DataWindow and selects Operators from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

pfc_Values event (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')}

Description

Displays a selection dialog box, prompting the user to select a value for use in query mode criteria. The dialog box displays a list of all unique values for the clicked column.

Return value

Integer. Returns 1 if the event succeeds, 0 if the user cancels out of the selection dialog box, and -1 if an error occurs.

Usage

This event is called when the user clicks the right mouse button over a DataWindow column and selects Values from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

n_cst_dwsrv_querymode

{button Events,JI(`>list_win',`id_pfcoref_2390')} {button Instance variables,JI(`>list_win',`id_pfcoref_2389')}

of_GetEnabled function

of_GetInfo function

of_GetPropertyInfo function

of_GetQueryCols function

of_GetResetCriteria function

of_GetRetrieveOnDisabled function

of_Load function

of_Save function

of_SetEnabled function

of_SetQueryCols function

of_SetResetCriteria function

of_SetRetrieveOnDisabled function

N_cst_dwsrv_querymode contains precoded object functions:

of_GetEnabled	of_Load
of_GetInfo	of_Save
of_GetPropertyInfo	of_SetEnabled
of_GetQueryCols	of_SetQueryCols
of_GetResetCriteria	of_SetResetCriteria
of_GetRetrieveOnDisabled	of_SetRetrieveOnDisabled

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetEnabled function (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')} {button Examples,JI(`>Examples',`id_pfcoref_2395')}

Description

Retrieves the DataWindow's current query mode state.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetEnabled** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)

Return value

Boolean. Returns TRUE if query mode is currently enabled and FALSE if it is not.

Usage

Enable and disable query mode by calling the of_SetEnabled function.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetEnabled function (n_cst_dwsrv_querymode)

This example calls the of_GetEnabled function:

```
IF NOT dw_emp.inv_querymode.of_GetEnabled() THEN

        dw_emp.inv_querymode.of_SetEnabled(TRUE)
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_GetInfo function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2397')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetInfo function (n_cst_dwsrv_querymode)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_querymode.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_GetPropertyInfo function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2399')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information:

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetPropertyInfo function (n_cst_dwsrv_querymode)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_querymode.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetQueryCols function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2401')}
```

Description

Retrieves the columns that are eligible for query criteria.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetQueryCols** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
columns	String array containing the columns that can be set as querymode columns (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetQueryCols function (n_cst_dwsrv_querymode)

This example calls the of_GetQueryCols function:

```
String  ls_cols[ ]

Integer  li_count, li_loop

li_count =  &
  dw_1.inv_querymode.of_GetQueryCols  &
    (ls_cols)
lb_1.Reset()
FOR li_loop = 1 to li_count
        lb_1.AddItem(ls_cols[li_loop])
NEXT
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetResetCriteria function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2403')}
```

Description

Reports whether PFC resets query criteria between query mode toggles.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetResetCriteria** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)

Return value

Boolean. Returns TRUE if PFC resets query criteria between query mode toggles and FALSE if it does not.

Usage

Call this function to determine whether PFC resets query criteria between query mode toggles.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetResetCriteria function (n_cst_dwsrv_querymode)

This example calls the of_GetResetCriteria function:

```
Boolean   lb_reset
```

```
lb_reset = &
        dw_emp.inv_querymode.of_GetResetCriteria( )
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_GetRetrieveOnDisabled function (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')} {button Examples,JI(`>Examples',`id_pfcoref_2405')}

Description

Reports whether PFC automatically retrieves the DataWindow when query mode is disabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRetrieveOnDisabled** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)

Return value

Boolean. Returns TRUE if PFC automatically retrieves the DataWindow when query mode is disabled and FALSE if it does not.

Usage

Call this function to determine whether PFC automatically retrieves the DataWindow when query mode is disabled.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_GetRetrieveOnDisabled function (n_cst_dwsrv_querymode)

This example calls the of_GetRetrieveOnDisabled function:

```
Boolean    lb_retrieve


lb_retrieve = &
        dw_emp.inv_querymode.of_GetRetrieveOnDisabled( )
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_Load function (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')} {button Examples,JI(`>Examples',`id_pfcoref_2407')}

Description

Displays the File Open dialog box, prompting the user to select a saved query from disk. If the user selects a file, this function enables query mode for the DataWindow and uses the selected file to determine selection criteria.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Load** (*title*, *pathname*, *filename* {, *extension* {, *filter* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
title	String specifying the title of the File Open dialog box
pathname	String into which the function returns the path for the chosen file (passed by reference)
filename	String into which the function returns the filename (passed by reference)
extension (optional)	String specifying the 1- to 3-character default file extension. The default is TXT
filter (optional)	String specifying a text description of the files to include in the listbox and the file mask that you want to use to select the displayed files (for example, *.* or *.exe). The format for filter is: description,*.ext. The default is: "Queries (*.TXT),*.TXT"

Return value

Integer. Returns 1 if the function succeeds, 0 if the user clicks Cancel or the system cancels the display, and -1 if an error occurs.

Usage

Call this function to allow the user to select a previously saved query.

Call the of_Save function to save a query.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_Load function (n_cst_dwsrv_querymode)

This example calls the of_Load function:

```
Integer    li_return

String     ls_path_name, ls_doc_name

ls_path_name = "c:\temp\rkn.txt"
dw_employee.inv_querymode.of_Load &
        ("Load a Query", ls_path_name, ls_doc_name)
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_Save function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2409')}
```

Description

Displays the File Save dialog box, allowing the user to save a query to disk. This function works only when the DataWindow is in query mode.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Save** (*title*, *pathname*, *filename* {, *extension* {, *filter* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
title	String specifying the title of the File Save dialog box
pathname	String specifying the default path and filename. The function uses this argument to return the path for the saved file (passed by reference)
filename	String into which the function returns the filename (passed by reference)
extension (optional)	String specifying the 1- to 3-character default file extension. The default is TXT
filter (optional)	String specifying a text description of the files to include in the listbox and the file mask that you want to use to select the displayed files (for example, *.* or *.exe). The format for filter is: description,*.ext. The default is: "Queries (*.TXT),*.TXT"

Return value

Integer. Returns 1 if the function succeeds, 0 if the user clicks Cancel or the system cancels the display, and -1 if an error occurs.

Usage

Call this function to allow the user to select a previously saved query.

Call the of_Load function to use a previously saved query.

The query must have been applied before it can be saved.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_Save function (n_cst_dwsrv_querymode)

This example calls the of_Save function:

```
String    ls_path_name, ls_doc_name


ls_path_name = "c:\temp\rkn.txt"
dw_employee.inv_querymode.of_Save &
        ("Save a Query", ls_path_name, ls_doc_name)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetEnabled function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2411')}
```

Description

Controls a DataWindow's query mode setting. This function also removes the border and protects non-query mode columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetEnabled** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
boolean	Boolean specifying whether to turn query mode on (TRUE) or off (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SetEnabled function (n_cst_dwsrv_querymode)

This example calls the of_SetEnabled function:

```
Integer   li_return


li_return = dw_master.inv_querymode.of_SetEnabled &
        (NOT dw_master.inv_querymode.of_GetEnabled( ) )
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_SetQueryCols function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2413')}
```

Description

Specifies the columns that are eligible for query criteria and changes the tab order and border style for those columns

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetQueryCols** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
columns	String array specifying the columns to be set as querymode columns

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetQueryCols function (n_cst_dwsrv_querymode)

This calls the of_SetQueryCols function:

```
Integer   li_itemtotal, li_itemcount


Integer   li_sel_cnt
String    ls_cols[ ]

// Get the number of items in the ListBox.
li_itemtotal = lb_col.TotalItems( )

// Loop through all the items.
FOR li_itemcount = 1 TO li_itemtotal
        IF lb_col.State(li_itemcount) = 1 THEN
       li_sel_cnt++
       ls_cols[li_sel_cnt] = &
       lb_col.Text(li_itemcount)
        END IF
NEXT

dw_emp.inv_querymode.of_SetQueryCols &
        (ls_cols)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_SetResetCriteria function (n_cst_dwsrv_querymode)

```
{button Object,JI(`>main',`ccjcbhdb')} {button
Examples,JI(`>Examples',`id_pfcoref_2415')}
```

Description

Specifies whether PFC resets query criteria between query mode toggles.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetResetCriteria** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
boolean	Boolean indicating whether PFC resets query criteria (TRUE) or not (FALSE)

Return value

Boolean. Returns TRUE if PFC resets query criteria between query mode toggles and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_SetResetCriteria function (n_cst_dwsrv_querymode)

This example calls the of_SetResetCriteria function:

```
dw_emp.inv_querymode.of_SetResetCriteria(TRUE)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_SetRetrieveOnDisabled function (n_cst_dwsrv_querymode)

{button Object,JI(`>main',`ccjcbhdb')} {button Examples,JI(`>Examples',`id_pfcoref_2417')}

Description

Specifies whether PFC automatically retrieves the DataWindow when query mode is disabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRetrieveOnDisabled** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_querymode (the u_dw default is inv_querymode)
boolean	Boolean indicating whether PFC automatically retrieves the DataWindow (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify whether PFC automatically retrieves the DataWindow when query mode is disabled.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_SetRetrieveOnDisabled function (n_cst_dwsrv_querymode)

This example calls the of_SetRetrieveOnDisabled function:

```
dw_emp.inv_querymode.of_SetRetrieveOnDisabled(TRUE)
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

n_cst_dwsrv_report

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2419')} {button Functions,JI(`>list_win',`id_pfcoref_2424')} {button Events,JI(`>list_win',`id_pfcoref_2421')} {button Instance variables,JI(`>list_win',`id_pfcoref_2420')}

Description

Reporting service. This object contains functions that help you handle report DataWindows and their printing.

N_cst_dssrv_report is the same as n_cst_dwsrv_report N_cst_dssrv_report, the DataStore report service object, is almost identical to n_cst_dwsrv_report except that it applies to DataStores instead of DataWindow controls. Except where noted, references to n_cst_dwsrv_report in the following discussions apply equally to n_cst_dssrv_report.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_platform

n_cst_propertyattrib

n_cst_string

Usage

Use this service with report DataWindows to provide enhanced viewing and printing capabilities.

Many of this service's functions provide the option of either executing the DataWindow Modify function or returning Modify syntax for use as input to your own Modify function. If you code more than two

consecutive report service functions, consider returning the Modify syntax, concatenating the strings, and issuing the Modify function from within your own code.

To use this service, the DataWindow object must use PBUs or pixels as the DataWindow unit. It does not work with DataWindows that use Thousandths of an Inch or Thousandths of a Centimeter as the DataWindow unit.

To use this service:

1 Enable the service using the u_dw of_SetReport function:

```
dw_emp.of_SetReport(TRUE)
```

2 Call reporting and printing functions as needed.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

n_cst_dwsrv_report

n_cst_dwsrv_printpreview

u_dw

Created with the Personal Edition of HelpNDoc: Easily create EBooks

n_cst_dwsrv_report

{button Functions,JI(`>list_win',`id_pfcoref_2424')} {button Events,JI(`>list_win',`id_pfcoref_2421')}

N_cst_dwsrv_report contains instance variables:

Instance variable	Description	Data type	Access	Usage
ibo_defaultborder	Default border	Border	Protected	Internal
ifc_defaultcharset	Default font character set	FontCharSet	Protected	Internal
ii_defaultfontsize	Default font size	Integer	Protected	Internal
ii_objectnum	Internal counter of the objects created in the associated DataWindow	Integer	Protected	Internal (updated by of_Add functions)
ii_undolevel	Counter of the number of changes made to the DataWindow	Integer	Protected	Internal
il_defaultbackcolor	Default background color	Long	Protected	Internal
il_defaultcolor	Default color	Long	Protected	Internal
inv_platform	Reference variable for platform services	n_cst_platform	Protected	Internal
is_undo[ ]	Array containing changed or deleted DataWindow columns and text fields	String	Protected	Internal (used by of_ResetUndo and of_Undo)

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

n_cst_dwsrv_report

{button Functions,JI(`>list_win',`id_pfcoref_2424')} {button Instance variables,JI(`>list_win',`id_pfcoref_2420')}

Constructor event

Destructor event

N_cst_dwsrv_report includes precoded events:

Constructor

Destructor

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

Constructor event (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')}

Description

Sets defaults for the report service.

Usage

This event executes when the DataWindow is created.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

Destructor event (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')}

Description

Destroys the platform service instance (inv_platform instance variable).

Usage

This event executes when the DataWindow is destroyed.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

n_cst_dwsrv_report

{button Events,JI(`>list_win',`id_pfcoref_2421')} {button Instance variables,JI(`>list_win',`id_pfcoref_2420')}

of_AddCompute function

of_AddLine function

of_AddPicture function

of_AddText function

of_BuildTextModify function

of_CreateComposite function

of_GetDefaultBackColor function

of_GetDefaultBorder function

of_GetDefaultCharset function

of_GetDefaultColor function

of_GetDefaultFontFace function

of_GetDefaultFontSize function

of_GetInfo function

of_GetPictureSize function

of_GetPropertyInfo function

of_GetTextSizePos function

of_GetUndoLevels function

of_PrepPrint function

of_PrintReport function

of_ResetUndo function

of_SetBackground function

of_SetBorder function

of_SetColor function

of_SetDefaultBackColor function

of_SetDefaultBorder function

of_SetDefaultCharset function

of_SetDefaultColor function

of_SetDefaultFontFace function

of_SetDefaultFontSize function

of_SetFont function

of_SetRelativeZoom function

of_ShiftBand function

of_Undo function

N_cst_dwsrv_report contains precoded functions:

of_AddCompute
of_AddLine
of_AddPicture
of_AddText
of_BuildTextModify
of_CreateComposite
of_GetDefaultBackColor
of_GetDefaultBorder
of_GetDefaultCharset
of_GetDefaultColor
of_GetDefaultFontFace
of_GetDefaultFontSize
of_GetInfo
of_GetPictureSize
of_GetPropertyInfo
of_GetTextSizePos
of_GetUndoLevels
of_PrepPrint
of_PrintReport
of_ResetUndo
of_SetBackground
of_SetBorder
of_SetColor
of_SetDefaultBackColor
of_SetDefaultBorder
of_SetDefaultCharset
of_SetDefaultColor
of_SetDefaultFontFace
of_SetDefaultFontSize
of_SetFont
of_SetRelativeZoom
of_ShiftBand
of_Undo

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_AddCompute function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2426')}

Description

Adds a computed column to any band of a DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddCompute** (*expression*, *band*, *xcoordinate*, *ycoordinate* {, *border* {, *bold*, *italic*, *underline* {, *fontface*, *fontsize*, *characterset* {, *color*, *backcolor* {, *execute* } } } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
expression	String specifying the expression to be added as the computed column
band	String specifying the band to which the function will add the computed column. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
xcoordinate	Either of the following: • Integer specifying the *x* location of the computed column. If you specify an integer for *xcoordinate*, you must also specify an integer for *ycoordinate* • Alignment enumerated data type (Center!, Justify!, Left!, or Right!). If you specify an alignment enumerated data type for *xcoordinate*, you must specify a VTextAlign enumerated data type for *ycoordinate*
ycoordinate	Either of the following: • Integer specifying the *y* location of the computed column. If you specify an integer for *ycoordinate*, you must also specify an integer for *xcoordinate* • VTextAlign enumerated data type (Bottom!, MultiLine!, Top!, or VCenter!). If you specify a VTextAlign enumerated data type for *ycoordinate*, you must specify an Alignment enumerated data type for *xcoordinate*
border (optional)	Border enumerated data type specifying the border style: NoBorder! ShadowBox! Box! ResizeBorder! Underline! Lowered! Raised! Specify the default border style using the of_SetDefaultBorder function
bold (optional)	Boolean specifying whether text is bold: TRUE—Bold FALSE—Not bold (default)
italic (optional)	Boolean specifying whether text is italic: TRUE—Italic FALSE—Not italic (default)

underline (optional)	Boolean specifying whether text is underlined: TRUE—Underlined FALSE—Not underlined (default)
fontface (optional)	String specifying the font to use Specify the default font face using the of_SetDefaultFontFace function
fontsize (optional)	Integer specifying the point size of the font for the computed column Specify the default font size using the of_SetDefaultFontSize function
characterset (optional)	FontCharSet enumerated data type specifying the character set to use for the computed column: ANSI! Symbol! ChineseBig5! Hangul! ShiftJIS! OEM! Specify the default character set using the of_SetDefaultCharset function
color (optional)	Long specifying the color of the computed field Specify the default color using the of_SetDefaultColor function
backcolor (optional)	Long specifying the background color of the computed field Specify the default background color using the of_SetDefaultBackColor function
execute (optional)	Boolean specifying whether to execute the Modify function that adds the computed column to the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the computed column; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the computed column.

Usage

Depending on the *execute* argument, the function either adds the computed column to the DataWindow or returns syntax that you use in a Modify function to add the computed column.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_AddCompute function (n_cst_dwsrv_report)

This example adds a computed column to display the page number in the bottom-right corner of the footer:

```
String    ls_return, ls_expression


ls_expression = "~"Page ~" + page()"
ls_Return = dw_employee.inv_report.of_AddCompute &
        (ls_expression, "footer", Right!, Bottom!, &
       Underline!, TRUE, FALSE, FALSE, "Arial", &
          14, ANSI!)

IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_AddLine function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')}

Adds a line to any band of a DataWindow. There are two syntaxes.

To	Use
Add a line by specifying the x and y coordinates of the endpoints	Syntax 1
Add a line by specifying a VTextAlign enumerated data type	Syntax 2

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

Syntax 1 Add a line by specifying the x and y coordinates of the endpoints

Syntax 1 Add a line by specifying the x and y coordinates of the endpoints

{button Examples,JI(`>Examples',`id_pfcoref_2429')}

Description

Adds a line by specifying the x and y coordinates of the endpoints.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddLine** (*band*, *penstyle*, *penwidth*, *x1*, *y1*, *x2*, *y2* {, *color*, *backcolor* {, *execute* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
band	String specifying the band to which the function will add the line. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
penstyle	Linestyle enumerated data type specifying the pen style of the line: Continuous! Dash! Dot! DashDot! DashDotDot! Transparent!
penwidth	Integer specifying the pen width of the line
x1	Integer specifying the *x1* location of the line
y1	Integer specifying the *y1* coordinate of the line
x2	Integer specifying the *x2* location of the line
y2	Integer specifying the *y2* coordinate of the line
color (optional)	Long specifying the color of the line

	Specify the default color using the of_SetDefaultColor function
backcolor (optional)	Long specifying the background color of the line Specify the default background color using the of_SetDefaultBackColor function
execute (optional)	Boolean specifying whether to execute the Modify function that adds the line to the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the line; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the line.

Usage

Depending on the *execute* argument, the function either adds the line to the DataWindow or returns syntax that you use in a Modify function to add the line.

You can call this function to draw a separator line above the footer area when preparing a DataWindow for printing.

Use Syntax 2 to add a line by specifying a VTextAlign enumerated data type.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

Syntax 1 Add a line by specifying the x and y coordinates of the endpoints

This example adds a line to the top of the DataWindow's footer:

```
String   ls_return, ls_expression


// Draw the line.
ls_Return = dw_employee.inv_report.of_AddLine &
        ("footer", Continuous!, 10, 1, 1, 1, 100)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
        Return
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

Syntax 2 Add a line by specifying a VTextAlign enumerated data type

Syntax 2 Add a line by specifying a VTextAlign enumerated data type

```
{button Examples,JI(`>Examples',`id_pfcoref_2431')}
```

Description

Adds a line by specifying the a VTextAlign enumerated data type.

Access

Public

Syntax

dwcontrol.instancename.**of_AddLine** (*band*, *penstyle*, *penwidth*, *placement*

{, *color*, *backcolor* {, *execute* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
band	String specifying the band to which the function will add the line. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
penstyle	Linestyle enumerated data type specifying the pen style of the line: Continuous! Dash! Dot! DashDot! DashDotDot! Transparent!
penwidth	Integer specifying the pen width of the line
placement	VTextAlign enumerated data type specifying the line placement: Bottom! MultiLine! Top! VCenter!
color (optional)	Long specifying the color of the line Specify the default color using the of_SetDefaultColor function
backcolor (optional)	Long specifying the background color of the line Specify the default background color using the of_SetDefaultBackColor function
execute (optional)	Boolean specifying whether to execute the Modify function that adds the line to the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the line; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the line.

Usage

Depending on the *execute* argument, the function either adds the line to the DataWindow or returns syntax that you use in a Modify function to add the line.

You can call this function to draw a separator line above the footer area when preparing a DataWindow for printing.

Use Syntax 1 to add a line by specifying *x* and *y* coordinates.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

Syntax 2 Add a line by specifying a VTextAlign enumerated data type

This example adds a line to the top of the DataWindow's footer:

```
String   ls_return, ls_expression


// Draw the line.
ls_Return = dw_employee.inv_report.of_AddLine &
        ("footer", Continuous!, 10, Top!)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
        Return
END IF
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_AddPicture function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2433')}
```

Description

Adds a picture object to the specified DataWindow band.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddPicture** (*filename*, *band*, *xcoordinate*, *ycoordinate* {, *border* {, *execute* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
filename	String specifying the name of the bitmap file If the directory containing the file is not in your system path, you must specify the complete path
band	String specifying the name of the band to which the function will add the bitmap. Valid bands are: • Header • Detail • Footer • Summary • Header.*levelnumber* • Trailer.*levelnumber*
xcoordinate	Either of the following: • Integer specifying the *x* location of the bitmap. If you specify an integer for *xcoordinate*, you must also specify an integer for *ycoordinate* • Alignment enumerated data type (Center!, Justify!, Left!, or Right!). If you specify an alignment enumerated data type for *xcoordinate*, you must specify a VTextAlign enumerated data type for *ycoordinate*
ycoordinate	Either of the following: • Integer specifying the *y* location of the bitmap. If you specify an integer for *ycoordinate*, you must also specify an integer for *xcoordinate* • VTextAlign enumerated data type (Bottom!, MultiLine!, Top!, or VCenter!). If you specify a VTextAlign enumerated data type for *ycoordinate*, you must specify an Alignment enumerated data type for *xcoordinate*
border (optional)	Border enumerated data type specifying the border style: NoBorder!

	ShadowBox! Box! ResizeBorder! Underline! Lowered! Raised! Specify the default border style using the of_SetDefaultBorder function
execute (optional)	Boolean specifying whether to execute the Modify function that adds the bitmap to the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the bitmap; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the bitmap.

Usage

Depending on the *execute* argument, the function either adds the bitmap to the DataWindow or returns syntax that you use in a Modify function to add the bitmap.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_AddPicture function (n_cst_dwsrv_report)

This example adds the logo.bmp bitmap to the Header band:

```
String    ls_return


ls_Return = dw_employee.inv_report.of_AddPicture &
        ("logo.bmp", "header", Center!, Top!, &
       NoBorder!, TRUE)

IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_AddText function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2435')}
```

Description

Adds text to any band of a DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_AddText** (*text*, *band*, *xcoordinate*, *ycoordinate*
{, *border* {, *bold*, *italic*, *underline* {, *fontface*, *fontsize*, *characterset*
{, *color*, *backcolor* {,*execute* } } } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
text	String specifying the text to be added
band	String specifying the band to which the function will add the text. Valid bands are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
xcoordinate	Either of the following: • Integer specifying the *x* location of the text. If you specify an integer for *xcoordinate*, you must also specify an integer for *ycoordinate* • Alignment enumerated data type (Center!, Justify!, Left!, or Right!). If you specify an alignment enumerated data type for *xcoordinate*, you must specify a VTextAlign enumerated data type for *ycoordinate*
ycoordinate	Either of the following: • Integer specifying the *y* location of the text. If you specify an integer for *ycoordinate*, you must also specify an integer for *xcoordinate* • VTextAlign enumerated data type (Bottom!, MultiLine!, Top!, or VCenter!). If you specify a VTextAlign enumerated data type for *ycoordinate*, you must specify an Alignment enumerated data type for *xcoordinate*
border (optional)	Border enumerated data type specifying the border style: NoBorder! ShadowBox! Box! ResizeBorder! Underline! Lowered! Raised! Specify the default border style using the of_SetDefaultBorder function
bold (optional)	Boolean specifying whether text is bold: TRUE—Bold FALSE—Not bold (default)
italic (optional)	Boolean specifying whether text is italic: TRUE—Italic FALSE—Not italic (default)
underline (optional)	Boolean specifying whether text is underlined: TRUE—Underlined FALSE—Not underlined (default)
fontface (optional)	String specifying the font to use Specify the default font face using the of_SetDefaultFontFace function
fontsize (optional)	Integer specifying the point size of the font for the text Specify the default font size using the of_SetDefaultFontSize function
characterset (optional)	FontCharSet enumerated data type specifying the character set to use for the computed column: ANSI! Symbol! ChineseBig5! Hangul! ShiftJIS! OEM! Specify the default character set using the of_SetDefaultCharset function
color (optional)	Long specifying the color of the text Specify the default color using the of_SetDefaultColor function

backcolor (optional)	Long specifying the background color of the text Specify the default background color using the of_SetDefaultBackColor function
execute (optional)	Boolean specifying whether to execute the Modify function that adds the text to the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the text; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the text.

Usage

Depending on the *execute* argument, the function either adds the text to the DataWindow or returns syntax that you use in a Modify function to add the text.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_AddText function (n_cst_dwsrv_report)

This example adds text to the DataWindow's header area:

```
String    ls_return


ls_return = dw_employee.inv_report.of_AddText &
        ("**Company Confidential**", "header", Center!, &
       Top!, Raised!, TRUE, FALSE, FALSE)
IF Trim(ls_return) <> "" THEN
        MessageBox("Modify Error", ls_return)
END IF
```

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_BuildTextModify function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2437')}
```

Description

Builds input text for the PowerScript Modify function.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_BuildTextModify** (*type*, *text*, *band*, *xcoordinate*, *ycoordinate*, *height*, *width*, *border*, *bold*, *italic*, *underline*, *fontface*, *fontsize*, *characterset*, *color*, *backcolor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
type	String specifying the type of object being added (text or computed column)
text	String specifying the text to be added
band	String specifying the band to which the function will add the text. Valid bands are:

	Header
	Detail
	Footer
	Summary
	Header.*levelnumber*
	Trailer.*levelnumber*
xcoordinate	Integer specifying the *x* location of the text
ycoordinate	Integer specifying the *y* location of the text
height	Integer specifying the height of the text
width	Integer specifying the width of the text
border	Border enumerated data type specifying the border style:
	NoBorder!
	ShadowBox!
	Box!
	ResizeBorder!
	Underline!
	Lowered!
	Raised!
	Specify the default border style using the of_SetDefaultBorder function
bold	Boolean specifying whether text is bold:
	TRUE—Bold
	FALSE—Not bold (default)
italic	Boolean specifying whether text is italic:
	TRUE—Italic
	FALSE—Not italic (default)
underline	Boolean specifying whether text is underlined:
	TRUE—Underlined
	FALSE—Not underlined (default)
fontface	String specifying the font to use
	Specify the default font face using the of_SetDefaultFontFace function
fontsize	Integer specifying the point size of the font
	Specify the default font size using the of_SetDefaultFontSize function
characterset	FontCharSet enumerated data type specifying the character set to use:
	ANSI!
	Symbol!
	ChineseBig5!
	Hangul!
	ShiftJIS!
	OEM!
	Specify the default character set using the of_SetDefaultCharset function
color	Long specifying the color
	Specify the default color using the of_SetDefaultColor function
backcolor	Long specifying the background color
	Specify the default background color using the of_SetDefaultBackColor function

Return value

String. Returns the text of the Modify command to add the object.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_BuildTextModify function (n_cst_dwsrv_report)

This example is from the of_AddCompute function:

```
...

ls_modify = ls_modify + of_BuildTextModify &
         ("compute", as_expr, as_band, ai_x, ai_y, &
               li_height, li_width, abo_border, ab_bold, &
                      ab_italic, ab_underline, as_fontface, &
                             ai_fontsize, afc_charset, al_color, &
                                    al_backcolor)
...
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_CreateComposite function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2439')}
```

Description

Creates a composite DataWindow from an array of DataWindows. Composite DataWindows enable you to print more than one DataWindow on a page.

Access

Public

Syntax

dwcontrol.*instancename*.**of_CreateComposite** (*datawindows*, *arrangevertical*, *trailfooter*, *slide*, *border*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
datawindows	String array naming the DataWindow objects to make up the composite DataWindow
arrangevertical	Boolean specifying whether to arrange the DataWindows vertically (TRUE) or horizontally (FALSE)
trailfooter	String array of values to set the trail_footer property for each DataWindow. Valid values are: Yes No An empty string (defaults to Yes)
slide	String array of values to set the Slide properties for each DataWindow. If *arrangevertical* is TRUE, this function sets the DataWindow's SlideUp property. Valid values are: AllAbove DirectlyAbove No An empty string (defaults to AllAbove) If *arrangevertical* is FALSE, this function sets the SlideLeft property. Valid values are: Yes No
border	Array of the Border enumerated data type specifying the border for each DataWindow in the composite:

NoBorder!
ShadowBox!
Box!
ResizeBorder!
Underline!
Lowered!
Raised!

Return value

Integer. Returns 1 if the function succeeds and -1 if it fails.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_CreateComposite function (n_cst_dwsrv_report)

This example creates a composite report containing the d_employee and d_benefits DataWindows:

```
String    ls_dws[ ], ls_trailfooter[ ], ls_slide[ ]


String    ls_return
Integer   li_return
Boolean   lb_vertical
Border   lbo_border[ ]

lb_vertical = TRUE
ls_dws[1] = "d_employee"
ls_dws[2] = "d_benefits"
ls_trailfooter[1] = "No"
ls_trailfooter[2] = "Yes"
ls_slide[1] = "AllAbove"
ls_slide[2] = "AllAbove"
lbo_border[1] = Lowered!
lbo_border[2] = Lowered!

li_Return = &
        dw_composite.inv_report.of_CreateComposite &
       (ls_dws, lb_vertical, ls_trailfooter, &
          ls_slide, lbo_border)
IF li_Return = 1 THEN
        dw_composite.SetTransObject(SQLCA)
        dw_composite.Event pfc_Retrieve( )
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_GetDefaultBackColor function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2441')}
```

Description

Retrieves the default background color.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultBackColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

Long. Returns the default background color.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetDefaultBackColor function (n_cst_dwsrv_report)

This example calls the of_GetDefaultBackColor function:

```
Long    ll_backcolor


ll_backcolor = &
        dw_emp.inv_report.of_GetDefaultBackColor( )
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetDefaultBorder function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2443')}
```

Description

Retrieves the default border.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultBorder** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

Border. Returns a Border enumerated data type identifying the border:

NoBorder!

ShadowBox!

Box!

ResizeBorder!

Underline!

Lowered!

Raised!

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_GetDefaultBorder function (n_cst_dwsrv_report)

This example calls the of_GetDefaultBorder function:

```
Border    lbo_border


lbo_border = &
        dw_emp.inv_report.of_GetDefaultBorder( )
IF lb_border = Box! THEN
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_GetDefaultCharset function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2445')}
```

Description

Retrieves the default character set.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultCharset** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

FonCharSet. Returns a FontCharSet enumerated data type identifying the default character set:

ANSI!

Symbol!

ChineseBig5!

Hangul!

ShiftJIS!

OEM!

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetDefaultCharset function (n_cst_dwsrv_report)

This example calls the of_GetDefaultCharset function:

```
FontCharSet    lfc_charset
```

```
lfc_charset = &
        dw_emp.inv_report.of_GetDefaultCharset()
IF lfc_charset = ANSI! THEN
...
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetDefaultColor function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2447')}

Description

Retrieves the default color.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultColor** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

Long. Returns the default color.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetDefaultColor function (n_cst_dwsrv_report)

This example calls the of_GetDefaultColor function:

```
Long   ll_color


ll_color = &
        dw_emp.inv_report.of_GetDefaultColor( )
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetDefaultFontFace function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2449')}

Description

Retrieves the default font (for example, Arial).

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultFontFace** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

String. Returns the default font.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_GetDefaultFontFace function (n_cst_dwsrv_report)

This example calls the of_GetDefaultFontFace function:

```
String    ls_font


ls_font = dw_emp.inv_report.of_GetDefaultFontFace()
IF ls_font = "Arial" THEN
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_GetDefaultFontSize function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2451')}
```

Description

Retrieves the default font point size.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetDefaultFontSize** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

Integer. Returns the default font size.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetDefaultFontSize function (n_cst_dwsrv_report)

This example calls the of_GetDefaultFontSize function:

```
Integer    li_fontsize
```

```
li_fontsize = &
        dw_emp.inv_report.of_GetDefaultFontSize()
...
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetInfo function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2453')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default for this is inv_report)
infoobject	n_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetInfo function (n_cst_dwsrv_report)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_report.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetPictureSize function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2455')}
```

Description

Calculates the height and width of a picture object in PBUs or pixels. A PowerBuilder picture object can display a bitmap (BMP) file, a runlength-encoded (RLE) file, or a Windows metafile (WMF).

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPictureSize** (*filename*, *height*, *width*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
filename	String specifying the name of the file containing the picture. This must be either a fully qualified filename or reside in a directory on the system path
height	Integer specifying the height of the picture in PBUs or pixels (passed by reference)
width	Integer specifying the width of the picture in PBUs or pixels (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_GetPictureSize function (n_cst_dwsrv_report)

This example returns the height and width for the logo.bmp file. The function returns the height in li_height and the width in li_width:

```
Integer   li_return,li_height,li_width


li_return = &
        dw_employee.inv_report.of_GetPictureSize &
       ("logo.bmp", li_height, li_width)
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2457')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default for this is inv_report)

propertyobject	n_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Not in n_cst_dssrv_report This function is not implemented in n_cst_dssrv_report.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv_report)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_report.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetTextSizePos function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2459')}
```

Description

Calculates the size and position of a text object.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_GetTextSizePos** (*text*, *band*, *halign*, *valign*, *bold*, *italic*, *underline*, *fontface*, *fontsize*, *height*, *width*, *xcoordinate*, *ycoordinate*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
text	String specifying the text to be added
band	String specifying the band. Valid values are: Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*

halign	Alignment enumerated data type (Center!, Justify!, Left!, or Right!) specifying horizontal alignment
valign	VTextAlign enumerated data type (Bottom!, MultiLine!, Top!, or VCenter!) specifying vertical alignment
bold	Boolean specifying whether text is bold: TRUE—Bold FALSE—Not bold (default)
italic	Boolean specifying whether text is italic: TRUE—Italic FALSE—Not italic (default)
underline	Boolean specifying whether text is underlined: TRUE—Underlined FALSE—Not underlined (default)
fontface	String specifying the font to use. Specify the default font face using the of_SetDefaultFontFace function
fontsize	Integer specifying the point size of the font. Specify the default font size using the of_SetDefaultFontSize function
height	Integer specifying the height of the text
width	Integer specifying the width of the text
xcoordinate	Integer specifying the *x* location of the text
ycoordinate	Integer specifying the *y* location of the text

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetTextSizePos function (n_cst_dwsrv_report)

This example is from the of_AddCompute function:

```
...

li_newlines = of_GetTextSizePos(as_expr, as_band, &
        aal_halign, avta_valign, ab_bold, ab_italic, &
       ab_underline, as_fontface, ai_fontsize, &
          li_height, li_width, ai_x, ai_y)
...
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_GetUndoLevels function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2461')}
```

Description

Retrieves the DataWindow's current undo level.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetUndoLevels** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

Integer. Returns the number of changes to the DataWindow.

Usage

Call this function when determining the number of levels to specify when using the of_Undo function.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetUndoLevels function (n_cst_dwsrv_report)

This example calls the of_GetUndoLevels function to display the number of undo levels in the status bar:

```
gnv_app.of_GetFrame( ).SetMicroHelp &

        ("Undo Levels: " + &
       String(dw_emp.inv_report.of_GetUndoLevels( )))
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_PrepPrint function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2463')}
```

Description

Prepares a DataWindow for printing: changes all colors to black on white and removes borders from all columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_PrepPrint** (*underlineheadings*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
underlineheadings	Boolean specifying whether to replace header borders with underlines (TRUE) or remove header borders (FALSE) This function only changes column headings whose object names end with _t

Return value

String. Returns the output of the Modify command. An empty string ("") indicates success.

Usage

Call this function to modify a DataWindow to a format more suitable for printing (black on white; no borders around columns).

This function removes borders from all columns, including headers. You can highlight headings by setting *underlineheadings* to TRUE, which replaces header borders with underlines.

This function is called by of_PrintReport and calls of_SetColor and of_SetBorder.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_PrepPrint function (n_cst_dwsrv_report)

This example calls of_PrepPrint before printing dw_employee using underlined headings:

```
String    ls_return


// Prepare for printing.
ls_Return = &
        dw_employee.inv_report.of_PrepPrint(TRUE)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Print Error", &
       "Error preparing DataWindow for printing")
END IF
// Print report.
dw_employee.Print(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_PrintReport function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2465')}
```

Description

Prepares a DataWindow for printing, prints it, and restores it to its original state. This function calls of_PrepPrint.

Access

Public

Syntax

dwcontrol.*instancename*.**of_PrintReport** (*underlineheadings* {, *canceldialog* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
underlineheadings	Boolean specifying whether to replace header borders with underlines (TRUE) or remove header borders (FALSE) This function only changes column headings whose object names end with _t
canceldialog (optional)	Boolean specifying whether to display the Cancel dialog box (TRUE) or not (FALSE). The default is FALSE

Return value

String. Returns the output of the Modify command. An empty string ("") indicates success.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_PrintReport function (n_cst_dwsrv_report)

This example prints dw_employee with underlined headings:

```
String   ls_return


ls_return = &
        dw_employee.inv_report.of_PrintReport(TRUE,TRUE)
IF ls_Return <> "" THEN
        MessageBox("Print Error", &
       "Error printing DataWindow")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_ResetUndo function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2467')}

Description

Resets the number of undo levels to zero.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ResetUndo** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)

Return value

None

Usage

Call this function to clear the is_undo array, which maintains a list of changes to the DataWindow.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_ResetUndo function (n_cst_dwsrv_report)

This example uses the of_ResetUndo function to reset the number of undo levels for dw_employee:

```
dw_employee.inv_report.of_ResetUndo()
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetBackground function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')}

Places a picture in the background of the DataWindow. There are two syntaxes:

To	Use
Add a background picture at its exact size	Syntax 1
Add a background picture, sizing it to fit the DataWindow	Syntax 2

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

Syntax 1 Add a background picture at its exact size

Syntax 1 Add a background picture at its exact size

{button Examples,JI(`>Examples',`id_pfcoref_2470')}

Description

Add a background picture, displayed at its exact size.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetBackground** (*filename* {, *xcoordinate* {, *ycoordinate* {, *height*, *width* {, *execute* } } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
filename	String specifying the name of the bitmap file If the directory containing the file is not in your system path, you must specify the complete path
xcoordinate (optional)	Integer specifying the *x* location of the bitmap. The default is 0
ycoordinate (optional)	Integer specifying the *y* location of the bitmap. The default is 0
height (optional)	Integer specifying the height of the bitmap being placed. If you pass 0, the function uses the of_GetPictureSize function to calculate this value. The default is 0
width (optional)	Integer specifying the width of the bitmap being placed. If you pass 0, the function uses the of_GetPictureSize function to calculate this value. The default is 0
execute (optional)	Boolean specifying whether to execute the Modify function that adds the background picture (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the background picture; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the background picture.

Usage

A background picture to can provide a watermark effect, enhancing a DataWindow's online and printed appearance.

Depending on the *execute* argument, the function either adds the background to the DataWindow or returns syntax that you use in a Modify function to add the background picture.

Use Syntax 2 to add a background picture, sizing it to fit the DataWindow.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

Syntax 1 Add a background picture at its exact size

This example uses the of_SetBackground function to add the confid.bmp background picture to dw_employee:

```
String    ls_return


ls_Return = &
        dw_employee.inv_report.of_SetBackground &
       ("confid.bmp", 20, 20)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

Syntax 2 Add a background picture, sizing it to fit the DataWindow

Syntax 2 Add a background picture, sizing it to fit the DataWindow

```
{button Examples,JI(`>Examples',`id_pfcoref_2472')}
```

Description

Add a background picture, optionally sizing it to fit the DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetBackground** (*filename* , *sizetofit*, *xcoordinate*, *ycoordinate*, *height*, *width execute*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
filename	String specifying the name of the bitmap file If the directory containing the file is not in your system path, you must specify the complete path
sizetofit	Boolean specifying whether to set the picture width to the width of the DataWindow and use the *height*/*width* ratio to set the height (TRUE) or use the *height* and *width* values
xcoordinate	Integer specifying the *x* location of the bitmap
ycoordinate	Integer specifying the *y* location of the bitmap
height	Integer specifying the height of the bitmap being placed. If you pass 0, the function uses the of_GetPictureSize function to calculate this value
width	Integer specifying the width of the bitmap being placed. If you pass 0, the function uses the of_GetPictureSize function to calculate this value
execute	Boolean specifying whether to execute the Modify function that adds the background picture (TRUE) or return a string that you use to execute the Modify

function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that added the background picture; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to add the background picture.

Usage

A background picture can provide a watermark effect, enhancing a DataWindow's online and printed appearance.

Depending on the *execute* argument, the function either adds the background to the DataWindow or returns syntax that you use in a Modify function to add the background picture.

Use Syntax 1 to add a background picture at its exact size.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

Syntax 2 Add a background picture, sizing it to fit the DataWindow

This example uses the of_SetBackground function to add the confid.bmp background picture to dw_employee, sizing it to fit:

```
String   ls_return


ls_Return = &
        dw_employee.inv_report.of_SetBackground &
       ("confid.bmp", TRUE, 20, 20, 0, 0, TRUE)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_SetBorder function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2474')}
```

Description

Changes the border for one or more objects in a DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetBorder** (*border* {, *objectname* {, *band* {, *execute* } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
border	Border enumerated data type specifying the border style: NoBorder! ShadowBox! Box!

	ResizeBorder! Underline! Lowered! Raised! Specify the default border style using the of_SetDefaultBorder function
objectname (optional)	String specifying the name of the object to change. If you specify an asterisk (*), the function changes the border for all objects in the band The default is an asterisk (*)
band (optional)	String specifying the band in which to change the objects. The function ignores this argument if you pass a name in *objectname*. Valid values are: An asterisk (*), which changes all objects in the DataWindow Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber* The default is an asterisk (*)
execute (optional)	Boolean specifying whether to execute the Modify function that sets the border (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that changed the border style; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to change the border style.

Usage

The of_PrepPrint function calls this function to remove all border styles. You can use it to selectively change border styles before printing (for example, you might change 3d Lowered to Box).

Depending on the *execute* argument, the function either changes the border style or returns syntax that you use in a Modify function to change the border style.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetBorder function (n_cst_dwsrv_report)

This example changes the border for all objects in the header band to a box:

```
String    ls_return

ls_return = dw_employee.inv_report.of_SetBorder &
        (Box!, "*", "header", TRUE)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetColor function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2476')}
```

Description

Changes the color and background color (if applicable) of one or more objects in a DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetColor** (*color*, *backgroundcolor*
{, *objectname* {, *band* {, *execute* } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
color	Long specifying a long value that identifies the new color. If you pass a NULL, the function does not change the color
backgroundcolor	Long specifying a long value that identifies the new background color. If you pass a NULL, the function does not change the background color
objectname (optional)	String specifying the name of the object to change. If you specify an asterisk (*), the function changes the border for all objects in the band The default is an asterisk (*)
band (optional)	String specifying the band in which to change the objects. The function ignores this argument if you pass a name in *objectname*. Valid bands are: An asterisk (*), which changes colors for all objects Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber* The default is an asterisk (*)
execute (optional)	Boolean specifying whether to execute the Modify function that sets the color (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that changed the color; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to change the color.

Usage

The of_PrepPrint function calls this function to change all text to black on white. You can use it to selectively change colors before printing.

Depending on the *execute* argument, the function either changes the color or returns syntax that you use in a Modify function to change the color.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetColor function (n_cst_dwsrv_report)

This example changes the text color to black and the background color to white:

```
String     ls_return

Long       ll_white = (RGB(255, 255, 255))
Long       ll_black = 0
```

```
// Change all colors to black on white
ls_return = dw_employee.inv_report.of_SetColor &
        (ll_black, ll_white, "*", "*", TRUE)
IF Trim(ls_return) <> "" THEN
        MessageBox("Modify error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_SetDefaultBackColor function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2478')}
```

Description

Specifies the default background color.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultBackColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
color	Long specifying the default background color. If you pass a NULL, the function sets the background color to transparent

Return value

None

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetDefaultBackColor function (n_cst_dwsrv_report)

This example calls the of_SetDefaultBackColor function, setting the background color to transparent:

```
Long    ll_backcolor


SetNull(ll_backcolor)
dw_emp.inv_report.of_SetDefaultBackColor &
     (ll_backcolor)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetDefaultBorder function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2480')}
```

Description

Specifies the default border.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultBorder** (*border*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
border	Border enumerated data type specifying the default border: NoBorder! ShadowBox! Box! ResizeBorder! Underline! Lowered! Raised!

Return value

None

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetDefaultBorder function (n_cst_dwsrv_report)

This example calls the of_SetDefaultBorder function:

```
dw_emp.inv_report.of_SetDefaultBorder(Lowered!)
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_SetDefaultCharset function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2482')}

Description

Specifies the default character set.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultCharset** (*charset*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
charset	FontCharSet enumerated data type specifying the default character set: ANSI! Symbol! ChineseBig5!

Hangul!
ShiftJIS!
OEM!

Return value

None

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetDefaultCharset function (n_cst_dwsrv_report)

This example calls the of_SetDefaultCharset function:

```
dw_emp.inv_report.of_SetDefaultCharset(ANSI!)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_SetDefaultColor function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2484')}

Description

Specifies the default color.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultColor** (*color*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
color	Long specifying the default color. If you pass a NULL, the function sets the color to transparent

Return value

None

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetDefaultColor function (n_cst_dwsrv_report)

This example calls the of_SetDefaultColor function:

```
Long   ll_color


ll_color = &
        dw_emp.inv_report.of_SetDefaultColor &
```

```
(RGB(128, 128, 128))
```

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_SetDefaultFontFace function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2486')}
```

Description

Specifies the default font (for example, Arial).

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultFontFace** (*font*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
font	String specifying the default font

Return value

None

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_SetDefaultFontFace function (n_cst_dwsrv_report)

This example calls the of_SetDefaultFontFace function:

```
dw_emp.inv_report.of_SetDefaultFontFace("Arial")
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_SetDefaultFontSize function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')} {button Examples,JI(`>Examples',`id_pfcoref_2488')}

Description

Specifies the default font point size.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetDefaultFontSize** (*fontsize*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
fontsize	Integer specifying the default font size, in points

Return value

None

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_SetDefaultFontSize function (n_cst_dwsrv_report)

This example calls the of_SetDefaultFontSize function:

```
dw_emp.inv_report.of_SetDefaultFontSize(12)
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetFont function (n_cst_dwsrv_report)

{button Object,JI(`>main',`cbbcfehh')}

Changes the font of one or more objects in a DataWindow. There are two syntaxes:

To	Use
Set the font, including bold, italic, and underline	Syntax 1
Set the font, using defaults for bold, italic, and underline	Syntax 2

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

Syntax 1 Set the font, including bold, italic, and underline

Syntax 1 Set the font, including bold, italic, and underline

{button Examples,JI(`>Examples',`id_pfcoref_2491')}

Description

Sets the font, including bold, italic, and underline.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetFont** (*fontface*, *fontsize*, *fontfamily*, *fontpitch* {, *bold*, *italic*, *underline* {, *objectname* {, *band* {, *execute* } } } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
fontface	String specifying the new font. If you pass a NULL, the function does not change the font
fontsize	Integer specifying the point size of the new font. If you pass a NULL, the function does not change the font size
fontfamily	FontFamily enumerated data type specifying the font family:

	AnyFont! Roman! Swiss! Modern! Script! Decorative! If you pass a NULL, the function does not change the font family
fontpitch	FontPitch enumerated data type specifying the pitch of the new font: Default! Fixed! Variable! If you pass a NULL, the function does not change the pitch
bold (optional)	Boolean specifying whether text is bold: TRUE—Bold FALSE—Not bold (default) If you pass a NULL, the function does not change the bold property
italic (optional)	Boolean specifying whether text is italic: TRUE—Italic FALSE—Not italic (default) If you pass a NULL, the function does not change the italic property
underline (optional)	Boolean specifying whether text is underlined: TRUE—Underlined FALSE—Not underlined (default) If you pass a NULL, the function does not change the underline property
objectname (optional)	String specifying the name of the object to change. If you specify an asterisk (*), the function changes the font for all objects in the band The default is an asterisk (*)
band (optional)	String specifying the band in which to change the objects. The function ignores this argument if you pass a name in *objectname*. Valid bands are: An asterisk (*), which changes the border for all objects Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber* The default is an asterisk (*)
execute (optional)	Boolean specifying whether to execute the Modify function that sets the font (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that changes the font; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to change the font.

Usage

Call this function to change the font for a DataWindow column before printing.

Depending on the *execute* argument, the function either changes the font or returns syntax that you use in a Modify function to change the font.

Use Syntax 2 to call this function, leaving bold, italic, and underline properties as is.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

Syntax 1 Set the font, including bold, italic, and underline

This example changes all text to Arial bold, using the default pitch. No other properties are changed:

```
String    ls_return

Integer   li_size
Boolean   lb_bold, lb_italic, lb_underline

SetNull(li_size)
SetNull(lb_italic)
SetNull(lb_underline)
lb_bold = TRUE
ls_return = dw_employee.inv_report.of_SetFont &
        ("Arial", li_size, Swiss!, Default!, &
       lb_bold, lb_italic, lb_underline, &
          "*", "*", TRUE)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

Syntax 2 Set the font, using defaults for bold, italic, and underline

Syntax 2 Set the font, using defaults for bold, italic, and underline

{button Examples,JI(`>Examples',`id_pfcoref_2493')}

Description

Sets the font, using defaults for bold, italic, and underline. This syntax always executes the Modify statement that changes the font.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetFont** (*fontface*, *fontsize*, *fontfamily*, *fontpitch* {, *objectname* {, *band* } })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
fontface	String specifying the new font. If you pass a NULL, the function does not change the font
fontsize	Integer specifying the point size of the new font. If you pass a NULL, the function does not change the font size
fontfamily	FontFamily enumerated data type specifying the font family:
	AnyFont!
	Roman!
	Swiss!
	Modern!
	Script!
	Decorative!
	If you pass a NULL, the function does not change the font family
fontpitch	FontPitch enumerated data type specifying the pitch of the new font:
	Default!

	Fixed!
	Variable!
	If you pass a NULL, the function does not change the pitch
objectname (optional)	String specifying the name of the object to change. If you specify an asterisk (*), the function changes the font for all objects in the band
	The default is an asterisk (*)
band (optional)	String specifying the band in which to change the objects. The function ignores this argument if you pass a name in *objectname*. Valid bands are:
	An asterisk (*), which changes the border for all objects
	Header
	Detail
	Footer
	Summary
	Header.*levelnumber*
	Trailer.*levelnumber*
	The default is an asterisk (*)

Return value

String. Returns the result of the Modify statement that changes the font; an empty string indicates success.

Usage

Call this function to change the font for a DataWindow column before printing.

Use Syntax 1 to call this function, with the addition of bold, italic, and underline properties.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

Syntax 2 Set the font, using defaults for bold, italic, and underline

This example changes all text to Arial, using the default pitch. No other properties are changed:

```
String     ls_return

Integer    li_size

SetNull(li_size)
ls_return = dw_employee.inv_report.of_SetFont &
        ("Arial", li_size, Swiss!, Default!, &
               "*", "*", TRUE)
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetRelativeZoom function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2495')}
```

Description

Increases or decreases the size of a report relative to its current size.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRelativeZoom** (*zoompercentage*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
zoompercentage	Integer specifying the percentage change to the DataWindow (50% = half the size, 200% = twice the size, 100% = no change)

Return value

String. Returns the output of the Modify command. An empty string ("") indicates success.

Usage

This change is relative to the current report's zoom percentage. To change the size to an absolute percentage, code a Modify statement that specifies DataWindow.Zoom.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_SetRelativeZoom function (n_cst_dwsrv_report)

This example reduces the dw_employee DataWindow's size by 50 percent:

```
String    ls_return


ls_return = &
        dw_employee.inv_report.of_SetRelativeZoom(50)
IF ls_Return <> "" THEN
        MessageBox("Print Error", &
       "DataWindow.Zoom error")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_ShiftBand function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2497')}
```

Description

Shifts the objects in the given band of the DataWindow horizontally or vertically by a specified number of units.

Access

Public

Syntax

dwcontrol.*instancename*.**of_ShiftBand** (*band*, *xunits*, *yunits* {, *execute* })

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
band	String specifying the band to shift. Valid bands are: An asterisk (*), which shifts entire the DataWindow

	Header Detail Footer Summary Header.*levelnumber* Trailer.*levelnumber*
xunits	Integer specifying the number of units to shift the objects right (to shift left, pass a negative number)
yunits	Integer specifying the number of units to shift the objects down (to shift up, pass a negative number)
execute (optional)	Boolean specifying whether to execute the Modify function that shifts the band (TRUE) or return a string that you use to execute the Modify function (FALSE). The default is TRUE

Return value

String. If *execute* is TRUE, this function returns the result of the Modify statement that shifted the objects; an empty string indicates success. If *execute* is FALSE, this function returns a string that you use as input to a Modify function to shift the objects.

Usage

Call this function to reposition existing objects when adding other objects dynamically. For example, if you add a bitmap to a band, call the of_GetPictureSize function to determine the bitmap's size and then call this function to reposition the other objects.

Depending on the *execute* argument, the function either shifts the objects or returns syntax that you use in a Modify function to shift the objects.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_ShiftBand function (n_cst_dwsrv_report)

This example calls the of_ShiftBand function:

```
String    ls_return


ls_return = dw_employee.inv_report.of_ShiftBand &
        ("header", 50, 0, TRUE)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_Undo function (n_cst_dwsrv_report)

```
{button Object,JI(`>main',`cbbcfehh')} {button
Examples,JI(`>Examples',`id_pfcoref_2499')}
```

Description

Restores changes made to a DataWindow.

Access

Public

Syntax

dwcontrol.instancename.**of_Undo** (*levelstoundo*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_report (the u_dw default is inv_report)
levelstoundo	Integer specifying the number of changes to restore. Specify 0 to undo all changes

Return value

String. Returns the output of the Modify command. An empty string ("") indicates success.

Usage

Call this function to undo changes made while viewing an online report. This function is used internally by of_PrintReport to undo the changes made by of_PrepPrint.

If you are buffering multiple strings to use in a single Modify function, each function call counts as a separate undo level. For example, if you might call of_AddCompute, of_AddLine, and of_AddText, with *execute* set to FALSE, for input to a single Modify function. To remove these changes, call of_Undo(3).

This function is for undoing cosmetic changes made while preparing a DataWindow for online reporting and hardcopy printing. To undo changes made to DataWindow data, use the n_cst_dwsrv_rowmanager of_Undelete function.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_Undo function (n_cst_dwsrv_report)

This example uses the of_Undo function after printing a DataWindow:

```
String    ls_return


// Prepare for printing.
ls_Return = &
        dw_employee.inv_report.of_PrepPrint(TRUE)
IF ls_Return <> "" THEN
        MessageBox("Print Error", &
       "Error preparing DataWindow for printing")
END IF

// Print report.
dw_employee.Print(TRUE)

// Undo changes made by of_PrepPrint.
ls_return = dw_employee.inv_report.of_Undo(1)
IF Trim(ls_Return) <> "" THEN
        MessageBox("Modify Error",ls_Return)
END IF
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

n_cst_dwsrv_reqcolumn

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2501')}
{button Functions,JI(`>list_win',`id_pfcoref_2503')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2502')}
```

Description

DataWindow required column service. This service enables and disables default DataWindow processing for required fields, making it easier for your application to handle interdependent fields within a DataWindow.

This service applies only to DataWindow columns that use the Nilisnull property. For example, EditMasks don't have this property so the required column service doesn't apply to edit masks.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

This service allows you to defer required fields processing until the user completes data entry. It also allows you to specify columns for which PowerBuilder should still perform required fields processing.

When enabled, this service writes NULL values to empty fields with the Nilisnull property, suppressing required fields messages.

To use the required column service:

1 Enable the service using the u_dw of_SetReqColumn function:

```
dw_emp.of_SetReqColumn(TRUE)
```

2 Call the of_RegisterSkipColumn to selectively enable default DataWindow required fields processing:

```
dw_emp.inv_reqcolumn.of_RegisterSkipColumn &
                    ("dept_id")
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

n_cst_dwsrv_reqcolumn

u_dw

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_dwsrv_reqcolumn

{button Functions,JI(`>list_win',`id_pfcoref_2503')}

Instance variable	Description	Data type	Access	Usage
is_skip	Tracks skipped columns	String	Protected	Internal
is_skipcolumn[ ]	Specifies columns for which default DataWindow required fields processing is enabled	String	Protected	Internal

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

n_cst_dwsrv_reqcolumn

{button Instance variables,JI(`>list_win',`id_pfcoref_2502')}

of_GetInfo function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetRegistered function

of_IsRegistered function

of_RegisterSkipColumn function

of_SetToNullIfEmpty function

of_UnRegister function

of_UpdateSkipString function

N_cst_dwsrv_reqcolumn includes precoded object functions:

of_GetInfo
of_GetPropertyInfo
of_GetRegisterable
of_GetRegistered
of_IsRegistered
of_RegisterSkipColumn
of_SetToNullIfEmpty
of_UnRegister
of_UpdateSkipString

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_GetInfo function (n_cst_dwsrv_reqcolumn)

{button Object,JI(`>main',`ccjdaghh')} {button Examples,JI(`>Examples',`id_pfcoref_2505')}

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetInfo function (n_cst_dwsrv_reqcolumn)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_reqcolumn.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_GetPropertyInfo function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2507')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetPropertyInfo function (n_cst_dwsrv_reqcolumn)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_reqcolumn.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetRegisterable function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2509')}
```

Description

Retrieves an array of registerable columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
columns	String array into which the function places a list of registerable columns

(passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_GetRegisterable function (n_cst_dwsrv_reqcolumn)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop

li_loop =  &
   dw_1.inv_reqcolumn.of_GetRegisterable  &
     (ls_columns)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetRegistered function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2511')}
```

Description

Retrieves an array of registered columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
columns	String array into which the function places a list of registered columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_GetRegistered function (n_cst_dwsrv_reqcolumn)

This example calls the of_GetRegistered function:

```
String   ls_columns[ ]

Integer  li_count, li_loop

li_loop =  &
   dw_1.inv_reqcolumn.of_GetRegistered  &
     (ls_columns)
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsRegistered function (n_cst_dwsrv_reqcolumn)

{button Object,JI(`>main',`ccjdaghh')} {button Examples,JI(`>Examples',`id_pfcoref_2513')}

Description

Reports whether a column is registered.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
column	String specifying the column to be checked

Return value

Boolean. Returns TRUE if *column* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_IsRegistered function (n_cst_dwsrv_reqcolumn)

This example calls the of_IsRegistered function:

```
IF NOT dw_1.inv_reqcolumn.of_IsRegistered  &

  ("termination_date") THEN
    dw_1.inv_reqcolumn.of_RegisterSkipColumn  &
      ("termination_date")
END IF
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_RegisterSkipColumn function (n_cst_dwsrv_reqcolumn)

{button Object,JI(`>main',`ccjdaghh')} {button Examples,JI(`>Examples',`id_pfcoref_2515')}

Description

Specifies that the specified column uses default DataWindow required field processing.

Access

Public

Syntax

dwcontrol.*instancename*.**of_RegisterSkipColumn** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
column	String specifying the column for which default DataWindow required fields processing applies

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_RegisterSkipColumn function (n_cst_dwsrv_reqcolumn)

This example calls the of_RegisterSkipColumn function:

```
Integer   li_return


li_return = &
        dw_emp.inv_reqcolumn.of_RegisterSkipColumn &
       ("emp_id")
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetToNullIfEmpty function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2517')}
```

Description

Replaces empty strings with a null value, suppressing the DataWindow's Value Required dialog box.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetToNullIfEmpty** (*row*, *column*, *text*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
row	Long specifying the row to check
column	String specifying the column to check
text	String specifying the current text

Return value

Integer. Returns values as follows:

- **3** The function rejects the data value but allows focus to change; the current value is NULL
- **1** The function converts the empty value to NULL
- **0** No action taken
- **-1** An error occurred

Usage

The u_dw ItemError event calls this function.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_SetToNullIfEmpty function (n_cst_dwsrv_reqcolumn)

This example is from the u_dw ItemError event:

```
w_master    lw_parent


IF IsValid(inv_reqcolumn) THEN
        IF inv_reqcolumn.of_SetToNullIfEmpty &
       (row, string(dwo.Name), &
          this.GetText()) > 0 THEN
             Return 3
        END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_UnRegister function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2519')}
```

Description

Removes a column from the is_skipcolumn array.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
column	String specifying the column to be removed from the is_skipcolumn array

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Once removed from the array, default DataWindow required fields processing is enabled.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_UnRegister function (n_cst_dwsrv_reqcolumn)

This example calls the of_UnRegister function:

```
Integer   li_return


li_return = &
        dw_emp.inv_reqcolumn.of_UnRegister &
       ("emp_id")
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_UpdateSkipString function (n_cst_dwsrv_reqcolumn)

```
{button Object,JI(`>main',`ccjdaghh')} {button
Examples,JI(`>Examples',`id_pfcoref_2521')}
```

Description

Creates a skip string.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_UpdateSkipString** (*skipcolumns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_reqcolumn (the u_dw default is inv_reqcolumn)
skipcolumns	String array used by the function to construct the skip string

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_UpdateSkipString function (n_cst_dwsrv_reqcolumn)

This example is from the of_RegisterSkipColumn function:

```
...

of_UpdateSkipString(is_skipcolumn)
```

. . .

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

n_cst_dwsrv_resize

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2523')}
{button Functions,JI(`>list_win',`id_pfcoref_2527')} {button
Events,JI(`>list_win',`id_pfcoref_2525')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2524')}
```

Description

DataWindow resize service. This object resizes the objects within a DataWindow object, including columns, computed fields, bitmaps, and text.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

Use this object's functions to enable resizing of the objects displayed in a DataWindow object (so that when the user resizes the window, this service resizes DataWindow contents automatically).

Presentation styles You cannot use the DataWindow resize service with DataWindow objects that have the Composite or RichTextEdit presentation style.

This service provides two resizing options:

- **For simple resizing** Call the of_Register function passing n_cst_dwsrv_resize constants, such as FIXEDBOTTOM
- **For total control over resizing** Implement weighted resize by calling the of_Register function with explicit specifications for moving and scaling

To use the DataWindow resize service:

1 Enable the DataWindow resize service using the u_dw of_SetResize function (this example is from a DataWindow Constructor event):

```
this.of_SetResize(TRUE)
```

2 (Optional) Call the of_SetMinSize function to specify a minimum size below which the DataWindow resize service no longer resizes DataWindow contents:

```
this.inv_resize.of_SetMinSize &

   (this.width-50, this.height-100)
```

3 Specify the objects to be resized and how they should be resized by calling the of_Register function:

```
this.inv_resize.of_Register("emp_fname", &

   0, 0, 50, 50)
this.inv_resize.of_Register("emp_lname", &
   100, 0, 50, 50)
```

4 Enable the window resize service and register the DataWindow control (this example is from a window Open event):

```
this.of_SetResize(TRUE)

this.inv_resize.of_Register(dw_1, 0, 0, 100, 100)
```

5 (Optional) Call the of_UnRegister function to remove objects from the resize list.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_dwsrv_resizeattrib custom class user object replaces the os_resize object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

n_cst_dwsrv_resize

n_cst_dwsrv

n_cst_resize

u_dw

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_dwsrv_resize

{button Functions,JI(`>list_win',`id_pfcoref_2527')} {button Events,JI(`>list_win',`id_pfcoref_2525')}

N_cst_dwsrv_resize includes instance variables:

Instance variable	Description	Data type	Access	Usage
EMPTY	Constant set to an empty string	String	Protected	Internal
FIXEDBOTTOM	Constant set to FixedToBottom	String	Public	Use with of_Register
FIXEDBOTTOM_SCALERIGHT	Constant set to FixedToBottom&ScaleToRight	String	Public	Use with of_Register
FIXEDRIGHT	Constant set to FixedToRight	String	Public	Use with of_Register
FIXEDRIGHT_SCALEBOTTOM	Constant set to FixedToRight&ScaleToBottom	String	Public	Use with of_Register
FIXEDRIGHTBOTTOM	Constant set to FixedToRight&Bottom	String	Public	Use with of_Register
ii_rounding	Rounding factor	Integer	Protected	Internal (default is 5)
il_parentminimumheight	Minimum height of DataWindow control	Long	Protected	Set with of_SetMinSize
il_parentminimumwidth	Minimum width of DataWindow control	Long	Protected	Set with of_SetMinSize
il_parentprevheight	Original height of DataWindow control	Long	Protected	Set with of_SetOrigSize
il_parentprevwidth	Original width of DataWindow control	Long	Protected	Set with of_SetOrigSize
inv_registered []	Array of registered columns and text objects	n_cst_dwsrv_resizeattrib	Protected	Set with of_Register
LINE	Constant set to "line"	String	Protected	Internal
SCALE	Constant set to "Scale"	String	Public	Use with of_Register
SCALEBOTTOM	Constant set to "ScaleToBottom"	String	Public	Use with of_Register
SCALERIGHT	Constant set to "ScaleToRight"	String	Public	Use with of_Register
SCALERIGHTBOTTOM	Constant set to "ScaleToRight&Bottom"	String	Public	Use with of_Register

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

n_cst_dwsrv_resize

{button Functions,JI(`>list_win',`id_pfcoref_2527')} {button Instance variables,JI(`>list_win',`id_pfcoref_2524')}

pfc_Resize event

N_cst_dwsrv_resize includes a precoded event:

pfc_Resize

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

pfc_Resize event (n_cst_dwsrv_resize)

{button Object,JI(`>main',`ccjbbjfg')}

Description

Calls the of_Resize function.

Syntax

*dwcontrol.instancename.*EVENT **pfc_Resize** (*sizetype*, *newwidth*, *newheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
sizetype	UnsignedLong specifying the resize type: • 0 — (Restored) The window or DataWindow has been resized, but it was not minimized or maximized. The user may have dragged the borders or a script may have called the Resize PowerScript function • 1 — (Minimized) The window or DataWindow has been minimized • 2 — (Maximized) The window or DataWindow has been maximized
newwidth	Integer specifying the new DataWindow width
newheight	Integer specifying the new DataWindow height

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the u_dw Resize event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

n_cst_dwsrv_resize

{button Events,JI(`>list_win',`id_pfcoref_2525')} {button Instance variables,JI(`>list_win',`id_pfcoref_2524')}

of_GetInfo function

of_GetObjectInformation function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetRegistered function

of_IsRegistered function

of_Register function

of_Resize function

of_SetMinSize function

of_SetOrigSize function

of_SetRequestor function

of_UnRegister function

N_cst_dwsrv_resize contains precoded object functions:

of_GetInfo	of_Register
of_GetObjectInformation	of_Resize

of_GetPropertyInfo
of_GetRegisterable
of_GetRegistered
of_IsRegistered
of_SetMinSize
of_SetOrigSize
of_SetRequestor
of_UnRegister

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_GetInfo function (n_cst_dwsrv_resize)

{button Object,JI(`>main',`ccjbbjfg')} {button Examples,JI(`>Examples',`id_pfcoref_2529')}

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetInfo function (n_cst_dwsrv_resize)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_resize.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_GetObjectInformation function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2531')}
```

Description

Retrieves information on a specified object within a DataWindow.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_GetObjectInformation** (*control*, *type*, *x*, *y*, *width*, *height*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
control	String specifying the object for which the function returns information
type	String into which the function places the object type Object types include column text, bitmap, compute, and so on (passed by reference)
x	Integer into which the function places the x coordinate (passed by reference)
y	Integer into which the function places the y coordinate (passed by reference)
width	Integer into which the function places the object's width (passed by reference)
height	Integer into which the function places the object's height (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_GetObjectInformation function (n_cst_dwsrv_resize)

This example is from the of_Resize function:

```
...

IF Len(istr_registered[li_cnt].s_control) > 0 THEN
  li_rc = of_GetObjectInformation &
    (istr_registered[li_cnt].s_control, &
      ls_type, li_x, li_y, li_width, &
        li_height)
...
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetPropertyInfo function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2533')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetPropertyInfo function (n_cst_dwsrv_resize)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_resize.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetRegisterable function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2535')}
```

Description

Retrieves an array of registerable columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
columns	String array into which the function places a list of registerable columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_GetRegisterable function (n_cst_dwsrv_resize)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop
li_loop =  &
   dw_1.inv_resize.of_GetRegisterable  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registerable columns")
END IF
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetRegistered function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2537')}
```

Description

Retrieves information for a registered object.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegistered** (*object*, *scale*, *movex*, *movey*, *scalewidth*, *scaleheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	DWObject or string specifying the object for which information is returned
scale	Boolean into which the function places the object's scale switch (passed by reference)

movex	Integer into which the function places the object's move x specification (passed by reference)
movey	Integer into which the function places the object's move y specification (passed by reference)
scalewidth	Integer into which the function places the object's scale width specification (passed by reference)
scaleheight	Integer into which the function places the object's scale height specification (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetRegistered function (n_cst_dwsrv_resize)

This example calls the of_GetRegistered function:

```
...

dw_1.inv_resize.of_GetRegistered  &
    ("dept_id", lb_scale, li_x, li_y,  &
       li_scalewidth, li_scaleheight)
...
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_IsRegistered function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2539')}
```

Description

Reports whether an object is registered.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRegistered** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
column	String specifying the column to be checked

Return value

Boolean. Returns TRUE if *column* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_IsRegistered function (n_cst_dwsrv_resize)

This example calls the of_IsRegistered function:

```
IF NOT dw_1.inv_resize.of_IsRegistered  &

  ("dept_id") THEN
    dw_1.inv_resize.of_Register("dept_id",  &
      0, 0, 50, 50)
END IF
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_Register function (n_cst_dwsrv_resize)

{button Object,JI(`>main',`ccjbbjfg')}

Registers an object within a DataWindow. The DataWindow resize service acts on registered objects only. There are four syntaxes:

To register by specifying a	Use
DWObject variable and resize percentage	Syntax 1
DWObject variable and resize method	Syntax 2
String and resize percentage	Syntax 3
String and resize method	Syntax 4

One additional syntax N_cst_dwsrv_resize supports one additional of_Register syntax, which is defined as protected and used internally by the other syntaxes.

For more information on this syntax, use the Object Browser.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

Syntax 1 Specify a DWObject variable and resize percentages

Syntax 1 Specify a DWObject variable and resize percentages

{button Examples,JI(`>Examples',`id_pfcoref_2542')}

Description

Registers an object for resizing, given a DWObject variable and a set of resize percentages.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*object*, *movex*, *movey*, *scalewidth*, *scaleheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	DWObject variable specifying the object to be resized
movex	Integer specifying the percentage to move the object along the x axis
movey	Integer specifying the percentage to move the object along the y axis

scalewidth	Integer specifying the percentage to resize the object along the x axis
scaleheight	Integer specifying the percentage to resize the object along the y axis

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You typically use either this syntax or Syntax 3 to register objects with the DataWindow resize service.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

Syntax 1 Specify a DWObject variable and resize percentages

This example calls the of_Register function:

```
DWObject ldwo_obj


ldwo_obj = this.Object.emp_lname
this.inv_resize.of_Register &
   (ldwo_obj, inv_resize.0, 0, 50, 50)
ldwo_obj = this.Object.emp_fname
this.inv_resize.of_Register &
   (ldwo_obj, 100, 0, 50, 50)
this.of_SetTransObject(SQLCA)
this.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

Syntax 2 Specify a DWObject variable and resize method

Syntax 2 Specify a DWObject variable and resize method

```
{button Examples,JI(`>Examples',`id_pfcoref_2544')}
```

Description

Registers an object for resizing, given a DWObject variable and a resize method.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*object*, *resizemethod*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	DWObject variable specifying the object to be resized
resizemethod	String or n_cst_dwsrv_resize constant specifying the action the service takes when the DataWindow Resize event is triggered: • "FixedToRight" or FIXEDRIGHT • "FixedToBottom" or FIXEDBOTTOM • "FixedToRight&Bottom" or FIXEDRIGHTBOTTOM • "Scale" or SCALE

- "ScaleToRight" or SCALERIGHT
- "ScaleToBottom" or SCALEBOTTOM
- "ScaleToRight&Bottom" or SCALERIGHTBOTTOM
- "FixedToRight&ScaleToBottom" or FIXEDRIGHT_SCALEBOTTOM
- "FixedToBottom&ScaleToRight" or FIXEDBOTTOM_SCALERIGHT

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Because explicit move and resize percentages provide more flexibility when handling multiple objects, it's usually best to use Syntax 1 instead.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

Syntax 2 Specify a DWObject variable and resize method

This example calls the of_Register function:

```
DWObject ldwo_obj


ldwo_obj = this.Object.comments
this.inv_resize.of_Register &
  (ldwo_obj, inv_resize.SCALEBOTTOM)
this.of_SetTransObject(SQLCA)
this.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

Syntax 3 Specify a string and resize percentages

Syntax 3 Specify a string and resize percentages

{button Examples,JI(`>Examples',`id_pfcoref_2546')}

Description

Registers an object for resizing, given a string identifying the object and a set of resize percentages.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*object*, *movex*, *movey*, *scalewidth*, *scaleheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	String specifying the object to be resized
movex	Integer specifying the percentage to move the object along the x axis
movey	Integer specifying the percentage to move the object along the y axis
scalewidth	Integer specifying the percentage to resize the object along the x axis
scaleheight	Integer specifying the percentage to resize the object along the y axis

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You typically use either this syntax or Syntax 1 to register objects with the DataWindow resize service.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

Syntax 3 Specify a string and resize percentages

This example calls the of_Register function:

```
this.of_SetResize(TRUE)

this.inv_resize.of_Register &
  ("emp_fname", 0, 0, 50, 50)
this.inv_resize.of_Register &
  ("emp_lname", 100, 0, 50, 50)
this.Event of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

Syntax 4 Specify a string and resize method

Syntax 4 Specify a string and resize method

{button Examples,JI(`>Examples',`id_pfcoref_2548')}

Description

Registers an object for resizing, given a string identifying the object and a resize method.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Register** (*object*, *resizemethod*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	String specifying the object to be resized
resizemethod	String or n_cst_dwsrv_resize constant specifying the action the service takes when the DataWindow Resize event is triggered: • "FixedToRight" or FIXEDRIGHT • "FixedToBottom" or FIXEDBOTTOM • "FixedToRight&Bottom" or FIXEDRIGHTBOTTOM • "Scale" or SCALE • "ScaleToRight" or SCALERIGHT • "ScaleToBottom" or SCALEBOTTOM • "ScaleToRight&Bottom" or SCALERIGHTBOTTOM • "FixedToRight&ScaleToBottom" or FIXEDRIGHT_SCALEBOTTOM • "FixedToBottom&ScaleToRight" or FIXEDBOTTOM_SCALERIGHT

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Because explicit move and resize percentages provide more flexibility when handling multiple objects, it's usually best to use Syntax 3 instead.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

Syntax 4 Specify a string and resize method

This example calls the of_Register function:

```
this.inv_resize.of_Register &

  ("comments", inv_resize.SCALEBOTTOM)
this.of_SetTransObject(SQLCA)
this.of_Retrieve()
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_Resize function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2550')}
```

Description

Moves or resizes registered objects as specified in the of_Register function.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_Resize** (*newwidth*, *newheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
newwidth	Integer specifying the new DataWindow width
newheight	Integer specifying the new DataWindow height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pfc_Resize event calls this function when the DataWindow is resized.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_Resize function (n_cst_dwsrv_resize)

This example is from the pfc_Resize event:

```
Return of_Resize(ai_newwidth, ai_newheight)
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_SetMinSize function (n_cst_dwsrv_resize)

{button Object,JI(`>main',`ccjbbjfg')} {button Examples,JI(`>Examples',`id_pfcoref_2552')}

Description

Sets a minimum DataWindow size below which the resize service no longer modifies the position of registered objects.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetMinSize** (*minimumwidth*, *minimumheight*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
minimumwidth	Integer specifying minimum width
minimumheight	Integer specifying minimum height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Test different control sizes in the Window or User Object painter to determine an appropriate minimum size.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetMinSize function (n_cst_dwsrv_resize)

This example calls the of_SetMinSize function in a DataWindow Constructor event:

```
this.of_SetResize(TRUE)

this.inv_resize.of_SetMinSize &
  (this.width - 50, this.height - 100)
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetOrigSize function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2554')}
```

Description

Saves the current DataWindow control size.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetOrigSize** (*width*, *height*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
width	Integer specifying the DataWindow width
height	Integer specifying the DataWindow height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The u_dw of_SetResize function calls this function to set the original DataWindow control size. If you want to modify the original size, you must call this function before calling the of_Register function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_SetOrigSize function (n_cst_dwsrv_resize)

This example is from the u_dw of_SetResize function:

```
IF ab_switch THEN

  IF IsNull(inv_resize) OR NOT &
    IsValid(inv_resize) THEN
      inv_resize = CREATE n_cst_dwsrv_resize
      inv_resize.of_SetRequestor(this)
      inv_resize.of_SetOrigSize &
        (this.Width, this.Height)
      Return 1
  END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_SetRequestor function (n_cst_dwsrv_resize)

```
{button Object,JI(`>main',`ccjbbjfg')} {button
Examples,JI(`>Examples',`id_pfcoref_2556')}
```

Description

Associates a DataWindow control with this instance of n_cst_dwsrv_resize and ensures that the

DataWindow uses a valid presentation style. The DataWindow resize service does not support the Composite and RichTextEdit presentation styles.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRequestor** (*requestor*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
requestor	U_dw-based DataWindow window control to associate with this instance of n_cst_dwsrv_resize

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The u_dw of_SetResize function calls this function.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetRequestor function (n_cst_dwsrv_resize)

This example is from the u_dw of_SetResize function:

```
IF ab_Switch THEN

  IF IsNull(inv_resize) OR NOT &
    IsValid(inv_resize) THEN
      inv_resize = CREATE n_cst_dwsrv_resize
      inv_resize.of_SetRequestor(this)
      inv_resize.of_SetOrigSize &
        (this.Width, this.Height)
      Return 1
  END IF
...
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_UnRegister function (n_cst_dwsrv_resize)

`{button Object,JI(`>main',`ccjbbjfg')}`

Removes an object from the list of registered objects. There are two syntaxes:

To unregister by specifying a	Use
DWObject variable	Syntax 1
String	Syntax 2

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

Syntax 1 Specify a DWObject

Syntax 1 Specify a DWObject

{button Examples,JI(`>Examples',`id_pfcoref_2559')}

Description

Removes an object from the list of registered objects, given a DWObject variable.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** (*object*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	DWObject variable specifying the object to be removed from the list of registered objects

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

Syntax 1 Specify a DWObject

This example calls the of_UnRegister function:

```
DWObject ldwo_obj


ldwo_obj = this.Object.emp_lname
this.inv_resize.of_UnRegister (ldwo_obj)
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

Syntax 2 Specify a string

Syntax 2 Specify a string

{button Examples,JI(`>Examples',`id_pfcoref_2561')}

Description

Removes an object from the list of registered objects, given a string.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnRegister** (*object*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_resize (the u_dw default is inv_resize)
object	String specifying the object to be removed from the list of registered objects

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

Syntax 2 Specify a string

This example calls the of_UnRegister function:

```
this.inv_resize.of_UnRegister ("emp_fname")
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

n_cst_dwsrv_rowmanager

{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2563')} {button Functions,JI(`>list_win',`id_pfcoref_2570')} {button Events,JI(`>list_win',`id_pfcoref_2565')} {button Instance variables,JI(`>list_win',`id_pfcoref_2564')}

Description

Row management service. Contains functions and events that allow you to:

- Add an empty row to the end of the DataWindow
- Insert an empty row between two existing rows
- Delete one or more rows
- Restores the last delete

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

Use this service to enhance your application's row management capabilities. You can insert rows, delete rows, and restore deleted rows.

To use this service:

1 Enable the service using the u_dw of_SetRowManager function:

```
dw_emp.of_SetRowManager(TRUE)
```

2 (Optional) Enable restore row functionality by calling the of_SetRestoreRow function:

```
dw_emp.inv_rowmanager.of_SetRestoreRow(TRUE)
```

3 Call row management events and functions as needed.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

n_cst_dwsrv_rowmanager

n_cst_dwsrv_linkage

u_dw

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_cst_dwsrv_rowmanager

{button Functions,JI(`>list_win',`id_pfcoref_2570')} {button Events,JI(`>list_win',`id_pfcoref_2565')}

N_cst_dwsrv_rowmanager includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_confirmondelete	Indicates whether the service prompts users before deleting rows	Boolean	Protected	Internal
ib_restorerow	Indicates whether restore row functionality is enabled	Boolean	Protected	Set with of_SetRestoreRow

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_dwsrv_rowmanager

{button Functions,JI(`>list_win',`id_pfcoref_2570')} {button Instance variables,JI(`>list_win',`id_pfcoref_2564')}

pfc_AddRow event

pfc_DeleteRow event

pfc_InsertRow event

pfc_RestoreRow event

N_cst_dwsrv_rowmanager includes precoded events:

pfc_AddRow

pfc_DeleteRow

pfc_InsertRow

pfc_RestoreRow

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

pfc_AddRow event (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')}

Description

Inserts a new row at the end of the DataWindow and sets focus.

Return value

Long. Returns the number of the inserted row if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Add from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

pfc_DeleteRow event (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')}

Description

Deletes the currently selected row or rows.

Return value

Long. Returns the number of rows deleted if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Delete from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

pfc_InsertRow event (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')}

Description

Inserts a new row into the associated DataWindow and sets focus.

Syntax

dwcontrol.instancename.Event **pfc_InsertRow** (*nextrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager).
nextrow	Long specifying the row before which the event adds a row. From within the pfc_InsertRow event, access this value through the *al_beforerow* argument

Return value

Long. Returns the number of the inserted row if the event succeeds and -1 if an error occurs.

Usage

This event executes when the user selects Insert from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_RestoreRow event (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')}

Description

Displays the w_restorerow dialog box, allowing users to restore previously deleted rows.

Return value

Long. Returns the number of rows retrieved if the event succeeds, -1 if an error occurs, and -2 if there are no rows in the undelete buffer.

Usage

This event executes when the user selects Restore from the m_dw popup menu.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

n_cst_dwsrv_rowmanager

{button Events,JI(`>list_win',`id_pfcoref_2565')} {button Instance variables,JI(`>list_win',`id_pfcoref_2564')}

of_ConfirmDelete function

of_DeleteAll function

of_DeleteRow function

of_DeleteSelected function

of_GetConfirmOnDelete function

of_GetInfo function

of_GetPropertyInfo function

of_InsertRow function

of_IsRestoreRow function

of_SetConfirmOnDelete function

of_SetRestoreRow function

of_UnDelete function

N_cst_dwsrv_rowmanager includes precoded object functions:

of_ConfirmDelete	of_GetPropertyInfo
of_DeleteAll	of_InsertRow
of_DeleteRow	of_IsRestoreRow
of_DeleteSelected	of_SetConfirmOnDelete
of_GetConfirmOnDelete	of_SetRestoreRow
of_GetInfo	of_UnDelete

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_ConfirmDelete function (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')} {button Examples,JI(`>Examples',`id_pfcoref_2572')}

Description

Displays a message box, prompting the user to confirm a deletion request.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_ConfirmDelete** (*amount*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
amount	Long specifying the number of rows to be deleted

Return value

Integer. Returns 1 if the deletion should continue, 2 if the deletion should not continue, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_ConfirmDelete function (n_cst_dwsrv_rowmanager)

This example calls the of_ConfirmDelete function:

```
...

IF ib_confirmondelete THEN
        li_confirm = of_ConfirmDelete(ll_rowcount)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_DeleteAll function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2574')}
```

Description

Deletes all rows from the associated DataWindow's primary buffer.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DeleteAll** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)

Return value

Integer. Returns the number of rows deleted if the function succeeds and -1 if an error occurs.

Usage

You must still code a PowerScript Update function to apply the changes to the database.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_DeleteAll function (n_cst_dwsrv_rowmanager)

This example deletes all rows:

```
Integer   li_return


li_return = &
        dw_emplist.inv_rowmanager.of_DeleteAll( )
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_DeleteRow function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2576')}
```

Description

Deletes the specified row in the DataWindow. After the delete, the function sets focus to the next row in the DataWindow at the first column with a nonzero tab order.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DeleteRow** (*rownumber*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
rownumber	Long specifying the row to be deleted. If *rownumber* is zero, the function deletes the current row

Return value

Integer. Returns 1 if the row is deleted successfully, 0 if the row was not deleted, and -1 if an error occurs.

Usage

You must still code a PowerScript Update function to apply the changes to the database.

You can call of_UnDelete to reverse deletions made by of_DeleteRow.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_DeleteRow function (n_cst_dwsrv_rowmanager)

This example deletes the current row:

```
Integer    li_return


li_return = dw_emplist.inv_rowmanager.of_DeleteRow(0)
...
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_DeleteSelected function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2578')}
```

Description

Deletes all selected rows in the DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_DeleteSelected** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)

Return value

Integer. Returns the number of rows deleted if the function succeeds and -1 if an error occurs.

Usage

Call this function in conjunction with the row selection service to delete multiple rows in a DataWindow. You must still code an Update function to apply the changes to the database.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_DeleteSelected function (n_cst_dwsrv_rowmanager)

This example deletes all selected rows. It assumes that you have enabled multirow selection via the u_dw of_SetRowSelect function:

```
Integer    li_return


li_return = &
        dw_emplist.inv_rowmanager.of_DeleteSelected( )
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help

Authoring Tool

of_GetConfirmOnDelete function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2580')}
```

Description

Reports whether the service prompts the user to confirm deletion requests.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetConfirmOnDelete** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)

Return value

Boolean. Returns TRUE if the service confirms deletions and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetConfirmOnDelete function (n_cst_dwsrv_rowmanager)

This example calls the of_GetConfirmOnDelete function:

```
n_cst_conversion   lnv_conversion

Boolean   lb_confirm

lb_confirm = &
        dw_emp.inv_rowmanager.of_GetConfirmOnDelete( )
        essageBox("Delete", "Confirm on delete is " &
       + lnv_conversion.of_String(lb_confirm) )
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_GetInfo function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2582')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetInfo function (n_cst_dwsrv_rowmanager)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_rowmanager.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_GetPropertyInfo function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2584')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetPropertyInfo function (n_cst_dwsrv_rowmanager)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_rowmanager.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_InsertRow function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2586')}
```

Description

Inserts a row in the DataWindow at a specified place, then sets focus to the first column with tab order and scrolls to the new row.

Access

Public

Syntax

dwcontrol.*instancename*.**of_InsertRow** (*insertionpoint*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
insertionpoint	Long specifying the row before which the function inserts the new row. Specify 0 to insert at the end of all rows

Return value

Long. Returns the new row number if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_InsertRow function (n_cst_dwsrv_rowmanager)

This example inserts a new row at the end of the DataWindow:

```
dw_emplist.inv_rowmanager.of_InsertRow(0)
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_IsRestoreRow function (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')} {button Examples,JI(`>Examples',`id_pfcoref_2588')}

Description

Reports whether restore row functionality is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsRestoreRow** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)

Return value

Boolean. Returns TRUE if restore row functionality is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_IsRestoreRow function (n_cst_dwsrv_rowmanager)

This example calls the of_IsRestoreRow function:

```
IF dw_1.inv_rowmanager.of_IsRestoreRow() THEN

   MessageBox("RowMan", "Restore row is enabled")
ELSE
   MessageBox("RowMan", "Restore row is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetConfirmOnDelete function (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')} {button Examples,JI(`>Examples',`id_pfcoref_2590')}

Description

Specifies whether the service prompts the user to confirm deletion requests.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetConfirmOnDelete** (*boolean*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
boolean	Boolean indicating whether the service prompts the user to confirm deletion request (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetConfirmOnDelete function (n_cst_dwsrv_rowmanager)

This example calls the of_SetConfirmOnDelete function:

```
dw_emp.inv_rowmanager.of_SetConfirmOnDelete(FALSE)
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_SetRestoreRow function (n_cst_dwsrv_rowmanager)

{button Object,JI(`>main',`cbbbcjjf')} {button Examples,JI(`>Examples',`id_pfcoref_2592')}

Description

Specifies whether restore row functionality is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetRestoreRow** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)
boolean	Boolean indicating whether to enable (TRUE) or disable (FALSE) restore row functionality

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When restore row functionality is enabled, users can display the w_restorerow dialog box by right clicking and selecting Restore from the popup menu.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetRestoreRow function (n_cst_dwsrv_rowmanager)

This example calls the of_SetRestoreRow function:

```
dw_1.of_SetRowManager(TRUE)

dw_1.inv_rowmanager.of_SetRestoreRow(TRUE)
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_UnDelete function (n_cst_dwsrv_rowmanager)

```
{button Object,JI(`>main',`cbbbcjjf')} {button
Examples,JI(`>Examples',`id_pfcoref_2594')}
```

Description

Displays the w_restorerow dialog box, allowing users to restore deleted rows.

Access

Public

Syntax

dwcontrol.*instancename*.**of_UnDelete** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowmanager (the u_dw default is inv_rowmanager)

Return value

Long. Returns the number of restored rows if the function succeeds, -1 if an error occurs, and -2 if the delete buffer is empty.

Usage

Call this function to display the w_restorerow dialog box, which allows users to restore deleted rows from the Deleted buffer. This means that newly added rows that you delete before saving to the database can't be undeleted, since they never get copied to the Deleted buffer.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_UnDelete function (n_cst_dwsrv_rowmanager)

This example calls the of_UnDelete function:

```
IF dw_emplist.inv_rowmanager.of_UnDelete( ) = -1 THEN

        MessageBox("Undelete", "Undelete error")
ELSE
        nv_app.of_GetFrame( ).SetMicroHelp &
       ("Undelete was successful")
END IF
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

n_cst_dwsrv_rowselection

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2596')}
{button Functions,JI(`>list_win',`id_pfcoref_2605')} {button
Events,JI(`>list_win',`id_pfcoref_2598')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2597')}
```

Description

Row selection service. You can implement different styles of this service:

- **Single-row selection** Handles row selection when your DataWindow allows one row to be selected at a time.
- **Multirow selection** Handles row selection by allowing your runtime users to select multiple rows with single clicks. These rows can be contiguous or noncontiguous.

  When multirow selection is enabled, runtime users toggle a row's selected state by clicking it. This capability is similar to a ListBox's MultiSelect property.
- **Extended selection** Handles row selection by allowing your runtime users to select multiple rows with shift+click, ctrl+click, and ctrl+ shift+click.

  This capability is similar to a ListBox's ExtendedSelect property.

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

Usage

This service handles all row selection automatically. You don't need to add any code to implement row selection itself.To use this service:

1 Enable the service using the u_dw of_SetRowSelect function:

```
dw_emp.of_SetRowSelect(TRUE)
```

2 Specify the row selection option by calling the of_SetStyle function with one of the following arguments:

- **SINGLE or 0** Single-row selection
- **MULTIPLE or 1** Multirow selection
- **EXTENDED or 2** Extended selection

Selecting rows in extended mode If you choose the extended mode for a tabular list style DataWindow, the mouse pointer must be somewhere inside the DataWindow in order to select rows with the space bar.

This example enables extended selection:

```
dw_emp.inv_rowselect.of_SetStyle  &

   (dw_emp.inv_rowselect.EXTENDED)
```

3 Add logic to your application to access and process selected rows. For example, you might call the row manager service's pfc_DeleteRow event to delete all selected rows:

```
IF dw_emp.inv_rowmanager.Event pfc_DeleteRow() &

            = -1 THEN
       MessageBox("Error", "Deletion error")
END IF
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

n_cst_dwsrv_rowselection

n_cst_dwsrv_rowmanager

n_cst_selection

u_dw

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

n_cst_dwsrv_rowselection

{button Functions,JI(`>list_win',`id_pfcoref_2605')} {button Events,JI(`>list_win',`id_pfcoref_2598')}

N_cst_dwsrv_rowselection includes instance variables:

Instance variable	Description	Data type	Access	Usage
EXTENDED	Constant set to 2	Integer	Public	Use with of_SetStyle
ib_keyboard	Indicates whether keyboard support is active	Boolean	Protected	Internal
ib_lbuttonpressed	Indicates that the user is pressing the left mouse button	Boolean	Protected	Internal
ib_prevcntrl	Indicates whether the user pressed the ctrl key the last time a row was clicked	Boolean	Protected	Internal
ib_prevshift	Indicates whether the user pressed the shift key the last time a row was clicked	Boolean	Protected	Internal
ib_rbuttonpressed	Indicates that the user is pressing the right mouse button	Boolean	Protected	Internal
ii_style	Indicates whether single-row, multirow, or extended	Integer	Protected	Internal

	selection service is enabled			
il_anchorrow	Number of the row that is the current anchor point	Long	Protected	Internal
il_currclickedrow	Tracks the number of the current clicked row	Long	Protected	Internal
il_prevclickedrow	Tracks the number of the last clicked row	Long	Protected	Internal
il_prevrow	Previous row	Long	Protected	Internal
il_prevrowcount	Row count before last row focus change	Long	Protected	Internal
MULTIPLE	Constant set to 1	Integer	Public	Use with of_SetStyle
SINGLE	Constant set to 0	Integer	Public	Use with of_SetStyle

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_dwsrv_rowselection

{button Functions,JI(`>list_win',`id_pfcoref_2605')} {button Instance variables,JI(`>list_win',`id_pfcoref_2597')}

- **pfc_Clicked event**
- **pfc_LButtonDown event**
- **pfc_LButtonUp event**
- **pfc_RButtonDown event**
- **pfc_RButtonUp event**
- **pfc_RowFocusChanged event**

N_cst_dwsrv_rowselection includes precoded events:

pfc_Clicked	pfc_RButtonDown
pfc_LButtonDown	pfc_RButtonUp
pfc_LButtonUp	pfc_RowFocusChanged

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

pfc_Clicked event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Selects or clears rows based on the pressed keys and the row selection option.

Syntax

dwcontrol.instancename.Event **pfc_Clicked** (*x*, *y*, *row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
x	Integer indicating the *x* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_ypos* argument

row	Long indicating the clicked row. From within the pfc_Clicked event, access this value through the *al_row*argument
dwobject	DWObject variable indicating the clicked object (passed by reference). From within the pfc_Clicked event, access this value through the *adwo_obj* argument

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This event is called by the u_dw Clicked event.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_LButtonDown event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Processes row selection when the user presses the left mouse button.

Syntax

dwcontrol.instancename.Event **pfc_LButtonDown** (*flags*, *x*, *y*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
flags	Unsigned long indicating the modifier keys and mouse buttons that are pressed. Values are: 1—Left mouse button 2—Right mouse button 4— shift key 8— ctrl key 16—Middle mouse button From within the pfc_LButtonDown event, access this value through the *aul_flags* argument
x	Integer indicating the *x* position of the mouse click. From within the pfc_LButtonDown event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_LButtonDown event, access this value through the *ai_ypos* argument

Usage

This event is called by the u_dw LButtonDown event.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

pfc_LButtonUp event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Processes row selection when the user releases the left mouse button.

Syntax

dwcontrol.instancename.Event **pfc_LButtonUp** (*flags*, *x*, *y*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
flags	Unsigned Long indicating the modifier keys and mouse buttons that are pressed. Values are: 1—Left mouse button 2—Right mouse button 4— shift key 8— ctrl key 16—Middle mouse button From within the pfc_LButtonUp event, access this value through the *aul_flags* argument
x	Integer indicating the *x* position of the mouse click. From within the pfc_LButtonUp event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_LButtonUp event, access this value through the *ai_ypos* argument

Usage

This event is called by the u_dw LButtonUp event.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_RButtonDown event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Processes row selection when the user presses the right mouse button.

Syntax

dwcontrol.instancename.Event **pfc_RButtonDown** (*flags*, *x*, *y*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
flags	Unsigned Long indicating the modifier keys and mouse buttons that are pressed. Values are: 1—Left mouse button 2—Right mouse button 4— shift key 8— ctrl key 16—Middle mouse button From within the pfc_RButtonDown event, access this value through the *aul_flags* argument
x	Integer indicating the *x* position of the mouse click. From within the pfc_RButtonDown event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_RButtonDown event, access this value through the *ai_ypos* argument

Return value

None

Usage

This event is called by the u_dw RButtonDown event.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_RButtonUp event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Processes row selection when the user releases the right mouse button.

Syntax

dwcontrol.instancename.Event **pfc_RButtonUp** (*flags*, *x*, *y*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
flags	Unsigned Long indicating the modifier keys and mouse buttons that are pressed. Values are: 1—Left mouse button 2—Right mouse button 4— shift key 8— ctrl key 16—Middle mouse button From within the pfc_RButtonUp event, access this value through the *aul_flags* argument
x	Integer indicating the *x* position of the mouse click. From within the pfc_RButtonUp event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_RButtonUp event, access this value through the *ai_ypos* argument

Return value

None

Usage

This event is called by the u_dw RButtonUp event.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

pfc_RowFocusChanged event (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')}

Description

Implements keyboard support for row selection.

Syntax

dwcontrol.instancename.Event **pfc_RowFocusChanged** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
row	Long specifying the new row. From within the pfc_RowFocusChanged event, access this value through the *al_row* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

This event is called by the u_dw RowFocusChanged event.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

n_cst_dwsrv_rowselection

{button Events,JI(`>list_win',`id_pfcoref_2598')} {button Instance variables,JI(`>list_win',`id_pfcoref_2597')}

of_ButtonUp function

of_GetInfo function

of_GetPropertyInfo function

of_GetStyle function

of_InvertSelection function

of_IsKeyboard function

of_KeybRowSelect function

of_KeybRowSelectExt function

of_RowSelect function

of_RowSelectExt function

of_RowSelectMulti function

of_RowSelectSingle function

of_SelectedCount function

of_SetKeyboard function

of_SetStyle function

N_cst_dwsrv_rowselection contains precoded object functions:

of_ButtonUp	of_RowSelect
of_GetInfo	of_RowSelectExt
of_GetPropertyInfo	of_RowSelectMulti
of_GetStyle	of_RowSelectSingle
of_InvertSelection	of_SelectedCount
of_IsKeyboard	of_SetKeyboard
of_KeybRowSelect	of_SetStyle
of_KeybRowSelectExt	

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_ButtonUp function (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')} {button Examples,JI(`>Examples',`id_pfcoref_2607')}

Description

Performs extended selection processing.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_ButtonUp** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_ButtonUp function (n_cst_dwsrv_rowselection)

This example is from the pfc_RButtonUp event:

```
ib_buttonpressed = FALSE

of_ButtonUp( )
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetInfo function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2609')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
infoobject	N_cst_infoattrib instance into which the function places service information

(passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetInfo function (n_cst_dwsrv_rowselection)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_rowselect.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_GetPropertyInfo function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2611')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_GetPropertyInfo function (n_cst_dwsrv_rowselection)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_rowselect.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
  "Description: " + lnv_prop.is_description  &
    + ". Name: " + lnv_prop.is_name  &
      + ". Property tab text: " +  &
        lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_GetStyle function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2613')}
```

Description

Retrieves the currently enabled selection option.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)

Return value

Integer. Returns one of the following values:

- **SINGLE or 0** Single-row selection
- **MULTIPLE or 1** Multirow selection
- **EXTENDED or 2** Extended selection

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_GetStyle function (n_cst_dwsrv_rowselection)

This example calls the of_GetStyle function from within a DataWindow:

```
IF IsValid(inv_rowselect) THEN

        IF inv_rowselect.of_GetStyle( ) = 2 THEN
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_InvertSelection function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2615')}
```

Description

Reverses selection on all rows. Selected rows become unselected; unselected rows become selected.

Access

Public

Syntax

dwcontrol.*instancename*.**of_InvertSelection** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_InvertSelection function (n_cst_dwsrv_rowselection)

This example calls the of_InvertSelection function:

```
dw_emplist.inv_rowselect.of_InvertSelection()
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_IsKeyboard function (n_cst_dwsrv_rowselection)

{button Object,JI(`>main',`behbcaeh')} {button Examples,JI(`>Examples',`id_pfcoref_2617')}

Description

Reports whether keyboard support is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_IsKeyboard** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default for this value is inv_rowselect)

Return value

Boolean. Returns TRUE if keyboard support is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_IsKeyboard function (n_cst_dwsrv_rowselection)

This example calls the of_IsKeyboard function:

```
IF dw_1.inv_rowselect.of_IsKeyboard() THEN

   MessageBox("RowSelect", "Keyboard is enabled")
ELSE
   MessageBox("RowSelect", "Keyboard is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_KeybRowSelect function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2619')}
```

Description

Performs the appropriate keyboard-based selection processing for the passed row.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_KeybRowSelect** (*row*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default for this value is inv_rowselect)
row	Long specifying the row to process

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_KeybRowSelect function (n_cst_dwsrv_rowselection)

This example is from the pfc_RowFocusChanged event:

```
...

If (Not lb_rowdeletion) And (Not lb_rowclicked) Then
       li_rc = of_KeybRowSelect(al_row)
        End If
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_KeybRowSelectExt function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2621')}
```

Description

Performs keyboard-based extended selection.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_KeybRowSelectExt** (*row*, *ctrlpressed*, *shiftpressed*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default for this value is inv_rowselect)
row	Long specifying the current row number
ctrlpressed	Boolean indicating whether the ctrl key is down
shiftpressed	Boolean indicating whether the shift key is down

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_KeybRowSelectExt function (n_cst_dwsrv_rowselection)

This example is from the of_KeybRowSelect function:

```
...

CHOOSE CASE ii_style
        CASE SINGLE
        li_rc = of_RowSelectSingle(al_row)
        CASE MULTIPLE
        // No Action.
         CASE EXTENDED
        li_rc = of_KeyBRowSelectExt(al_row,
          Keydown(KeyControl!), Keydown(KeyShift!))
END CHOOSE
```

```
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_RowSelect function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2623')}
```

Description

Calls one of the row selection functions based on the specified selection option:

- **Single-row selection** of_RowSelectSingle
- **Multirow selection** of_RowSelectMulti
- **Extended selection** of_RowSelectExt

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RowSelect** (*clickedrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
clickedrow	Long containing the number of the clicked row

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_RowSelect function (n_cst_dwsrv_rowselection)

This example is from the pfc_Clicked event:

```
IF Not IsValid( idw_requestor ) Then Return

IF IsNull(adwo_obj) THEN Return
IF IsNull(al_row) OR al_row <=0 THEN Return
of_RowSelect(al_row)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_RowSelectExt function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2625')}
```

Description

Selects or clears rows depending on whether the ctrl and shift keys are down.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RowSelectExt** (*clickedrow*, *ctrlpressed*, *shiftpressed*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
clickedrow	Long containing the number of the clicked row
ctrlpressed	Boolean indicating whether the ctrl key is down
shiftpressed	Boolean indicating whether the shift key is down

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_RowSelectExt function (n_cst_dwsrv_rowselection)

This example is from the of_RowSelect function:

```
...

CASE EXTENDED
        li_rc = of_RowSelectExt(al_row, &
               KeyDown(KeyControl!), Keydown(KeyShift!) )
...
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_RowSelectMulti function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2627')}
```

Description

Selects or clears the clicked row depending on its current state. This function does not clear previously selected rows.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RowSelectMulti** (*clickedrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is

	inv_rowselect)
clickedrow	Long containing the number of the clicked row

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_RowSelectMulti function (n_cst_dwsrv_rowselection)

This example is from the of_RowSelect function:

```
...

CASE MULTIPLE
        li_rc = of_RowSelectMulti(al_row)
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_RowSelectSingle function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2629')}
```

Description

Selects the clicked row, clearing previously selected rows.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_RowSelectSingle** (*clickedrow*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
clickedrow	Long containing the number of the clicked row

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_RowSelectSingle function (n_cst_dwsrv_rowselection)

This example is from the of_RowSelect function:

```
Integer  li_rc


CHOOSE CASE ii_style
        CASE SINGLE
       li_rc = of_RowSelectSingle(al_row)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SelectedCount function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2631')}
```

Description

Retrieves the number of selected rows in a DataWindow.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SelectedCount** (*selectedrows*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
selectedrows	Long array into which the function places the row numbers of selected rows (passed by reference)

Return value

Long. Returns the number of selected rows in the DataWindow if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_SelectedCount function (n_cst_dwsrv_rowselection)

This example is from the pfc_Print event:

```
...

IF this.object.datawindow.print.page.range = &
        "selection" THEN
       lb_rowselection = IsValid(inv_rowselect)
       IF NOT lb_rowselection THEN
          of_SetRowSelect(TRUE)
       END IF
       ll_selectedcount = &
          inv_rowselect.of_SelectedCount(ll_selected)
       IF NOT lb_rowselection THEN
          of_SetRowSelect (FALSE)
       END IF
```

```
...
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_SetKeyboard function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2633')}
```

Description

Specifies whether keyboard selection is enabled.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetKeyboard** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default for this value is inv_rowselect)
boolean	Boolean indicating whether to enable (TRUE) or disable (FALSE keyboard support

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When keyboard selection is enabled, users can select multiple rows using the ctrl and shift keys in conjunction with the arrow keys.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_SetKeyboard function (n_cst_dwsrv_rowselection)

This example calls the of_SetKeyboard function:

```
dw_1.of_SetRowSelect(TRUE)

dw_1.inv_rowselect.of_SetKeyboard(FALSE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_SetStyle function (n_cst_dwsrv_rowselection)

```
{button Object,JI(`>main',`behbcaeh')} {button
Examples,JI(`>Examples',`id_pfcoref_2635')}
```

Description

Specifies the row selection style:

Single-row

Multirow

Extended

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetStyle** (*selectoption*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_rowselection (the u_dw default is inv_rowselect)
selectoption	Integer or n_cst_dwsrv_rowselection constant specifying the row selection option: • **SINGLE or 0** Single-row selection (default) • **MULTIPLE or 1** Multirow selection • **EXTENDED or 2** Extended row selection

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_SetStyle function (n_cst_dwsrv_rowselection)

This example calls the of_SetStyle function:

```
dw_emplist.of_SetRowSelect(TRUE)

dw_emplist.inv_rowselect.of_SetStyle  &
   (dw_emplist.inv_rowselect.EXTENDED)
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

n_cst_dwsrv_sort

```
{button Ancestor,JI(`>main',`caiebdce')} {button See also,PI(`',`id_pfcoref_2637')}
{button Functions,JI(`>list_win',`id_pfcoref_2642')} {button
Events,JI(`>list_win',`id_pfcoref_2639')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2638')}
```

Description

Sort service. Provides functions that make it easy for you to add DataWindow sort functionality to an application. This service provides many options:

- You can choose among four styles of sort dialog boxes
- You can allow the user to sort by clicking on column headings

Ancestry

Library

PFCDWSRV.PBL

PFEDWSRV.PBL

Object relationships

n_cst_infoattrib

n_cst_propertyattrib

n_cst_returnattrib

n_cst_sortattrib

n_cst_string

Usage

Use this service to add sort capabilities to your application.

To use this service:

1 Enable the service using the u_dw of_SetSort function:

```
dw_emp.of_SetSort(TRUE)
```

2 (Optional) Specify whether to use display values instead of data values by calling the of_SetUseDisplay function:

```
dw_emp.inv_sort.of_SetUseDisplay(TRUE)
```

3 (Optional) Specify whether sort dialog boxes should display database column names, DataWindow column names, or column header names, by calling the n_cst_dwsrv of_SetColumnNameSource function:

```
dw_emp.inv_sort.of_SetColumnnameSource  &

   (dw_emp.inv_sort.HEADER)
```

4 (Optional) Specify the sort dialog box style by calling the of_SetStyle function:

```
dw_emp.inv_sort.of_SetStyle  &

   (dw_emp.inv_sort.DRAGDROP)
```

5 (Optional) Enable column header sorting by calling the of_SetColumnHeader function:

```
dw_emp.inv_sort.of_SetColumnHeader(TRUE)
```

Sorting by column headers Columns that you add to a DataWindow are not automatically assigned column headers. If you are sorting columns by column header, make sure that all columns added to the DataWindow have headers, and that these conform to the naming scheme for headers. The default naming scheme uses the suffix _t, but you can change this by calling the of_SetDefaultHeaderSuffix function.

6 Display the sort dialog box by calling the u_dw pfc_SortDlg event:

```
dw_emp.Event pfc_SortDlg()
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

n_cst_dwsrv_sort

n_cst_dwsrv_filter

u_dw

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

n_cst_dwsrv_sort

{button Functions,JI(`>list_win',`id_pfcoref_2642')} {button Events,JI(`>list_win',`id_pfcoref_2639')}

N_cst_dwsrv_sort includes instance variables:

Instance variable	Description	Data type	Access	Usage
DRAGDROP	Constant set to 1	Integer	Public	Use with

				of_SetStyle
DROPDOWNLISTBOX	Constant set to 3	Integer	Public	Use with of_SetStyle
ib_columnheadersort	Tracks whether column header sort is active	Boolean	Protected	Internal
ib_displayvalues	Tracks whether display values are used for sorting	Boolean	Protected	Internal
ib_visibleonly	Tracks whether sort dialog boxes display visible columns only	Boolean	Protected	Internal
ii_style	Tracks sort style	Integer	Protected	Internal
is_excludecolumns[ ]	Contains a list of columns not displayed in sort dialog boxes	String	Protected	Internal
is_sortcolumn	Indicates the sort column when sorting by clicking headings	String	Protected	Internal
is_sortorder	Indicates sort order when the user sorts by clicking headings	String	Protected	Internal
SIMPLE	Constant set to 2	Integer	Public	Use with of_SetStyle

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_dwsrv_sort

{button Functions,JI(`>list_win',`id_pfcoref_2642')} {button Instance variables,JI(`>list_win',`id_pfcoref_2638')}

pfc_Clicked event

pfc_SortDlg event

N_cst_dwsrv_sort includes user events:

pfc_Clicked

pfc_SortDlg

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

pfc_Clicked event (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')}

Description

Sorts rows when the user clicks on the header. This event executes only if you have enabled column header sorting by calling the of_SetColumnHeader function.

Syntax

dwcontrol.instancename.Event **pfc_Clicked** (*x*, *y*, *row*, *dwobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
x	Integer indicating the *x* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_xpos* argument
y	Integer indicating the *y* position of the mouse click. From within the pfc_Clicked event, access this value through the *ai_ypos* argument
row	Long indicating the clicked row. From within the pfc_Clicked event, access this value through the *al_row*argument

dwobject	DWObject variable indicating the clicked object (passed by reference). From within the pfc_Clicked event, access this value through the *adwo_obj* argument

Return value

Integer. Returns 1 if the event succeeds, 0 if no action is required, and -1 if an error occurs.

Usage

This event is called by the u_dw clicked event.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

pfc_SortDlg event (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')}

Description

Displays a sort dialog box and sorts the DataWindow as specified by the user.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Call this event to display a sort dialog box using the style specified in the of_SetStyle function.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

n_cst_dwsrv_sort

{button Events,JI(`>list_win',`id_pfcoref_2639')} {button Instance variables,JI(`>list_win',`id_pfcoref_2638')}

of_BuildSortAttrib function

of_GetColumnHeader function

of_GetExclude function

of_GetInfo function

of_GetPropertyInfo function

of_GetRegisterable function

of_GetSort function

of_GetStyle function

of_GetUseDisplay function

of_GetVisibleOnly function

of_ParseSortAttrib function

of_SetColumnHeader function

of_SetExclude function

of_SetSort function

of_SetStyle function

of_SetUseDisplay function

of_SetVisibleOnly function

of_Sort function

of_UsesDisplayValue function

N_cst_dwsrv_sort includes precoded object functions:

- of_BuildSortAttrib
- of_GetColumnHeader
- of_GetExclude
- of_GetInfo
- of_GetPropertyInfo
- of_GetRegisterable
- of_GetSort
- of_GetStyle
- of_GetUseDisplay
- of_GetVisibleOnly
- of_ParseSortAttrib
- of_SetColumnHeader
- of_SetExclude
- of_SetSort
- of_SetStyle
- of_SetUseDisplay
- of_SetVisibleOnly
- of_Sort
- of_UsesDisplayValue

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_BuildSortAttrib function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2644')}

Description

Prepares sort information before displaying one of the sort dialog boxes.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_BuildSortAttrib** (*sortattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
sortattrib	N_cst_sortattrib instance into which the function places sort information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_BuildSortAttrib function (n_cst_dwsrv_sort)

This example is from the of_SetSort function:

```
...

CASE DRAGDROP, SIMPLE, DROPDOWNLISTBOX
        IF of_BuildSortAttrib(lnv_sortattrib) <> 1 THEN &
                Return -1
```

```
        END IF
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetColumnHeader function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2646')}

Description

Reports whether the sort service is set to sort when the user clicks on a column header.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetColumnHeader** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

Boolean. Returns TRUE if column header sort is active and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetColumnHeader function (n_cst_dwsrv_sort)

This example is from the pfc_Clicked event:

```
...

IF NOT of_GetColumnHeader() THEN Return 0
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_GetExclude function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2648')}

Description

Retrieves the list of excluded columns, as set by the of_SetExclude function.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetExclude** (*columns*)

Argument	Description

dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
columns	String array into which the function places the excluded columns (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetExclude function (n_cst_dwsrv_sort)

This example calls the of_GetExclude function:

```
String    ls_exclude[ ]


String    ls_list
Integer   li_count

dw_emp.inv_sort.of_GetExclude(ls_exclude)
For li_count = 1 to UpperBound(ls_exclude)
        ls_list += ls_exclude[li_count] + ", "
NEXT
MessageBox("Sort Service", &
        "Excluded columns are: " + ls_list)
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetInfo function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2650')}
```

Description

Retrieves service information.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetInfo** (*infoobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
infoobject	N_cst_infoattrib instance into which the function places service information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document

into an eBook

of_GetInfo function (n_cst_dwsrv_sort)

This example calls the of_GetInfo function:

```
n_cst_infoattrib  lnv_info


dw_1.inv_sort.of_GetInfo(lnv_info)
MessageBox("Info",  &
  "Description: " + lnv_info.is_description  &
    + ". Name: " + lnv_info.is_name)
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_GetPropertyInfo function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2652')}
```

Description

Retrieves information about the service's properties.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetPropertyInfo** (*propertyobject*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
propertyobject	N_cst_propertyattrib instance into which the function places property information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The DataWindow Properties window calls this function to access service information.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetPropertyInfo function (n_cst_dwsrv_sort)

This example calls the of_GetPropertyInfo function:

```
n_cst_propertyattrib  lnv_prop


dw_1.inv_sort.of_GetPropertyInfo(lnv_prop)
MessageBox("Info",  &
```

```
"Description: " + lnv_prop.is_description  &
  + ". Name: " + lnv_prop.is_name  &
    + ". Property tab text: " +  &
      lnv_prop.is_propertytabtext)
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetRegisterable function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2654')}

Description

Retrieves an array of registerable columns.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetRegisterable** (*columns*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
columns	String array into which the function places a list of registerable columns (passed by reference)

Return value

Integer. Returns the number of entries in the *columns* array.

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_GetRegisterable function (n_cst_dwsrv_sort)

This example calls the of_GetRegisterable function:

```
String   ls_columns[ ]

Integer  li_count, li_loop
li_loop =  &
   dw_1.inv_sort.of_GetRegisterable  &
     (ls_columns)
lb_1.Reset()
IF li_loop <> 0 THEN
  FOR li_count = 1 to li_loop
    lb_1.AddItem(ls_columns[li_count])
  NEXT
ELSE
  lb_1.AddItem("No Registerable columns")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetSort function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2656')}
```

Description

Retrieves the current sort expression for the DataWindow. The sort is created when you call the of_SetSort function.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetSort** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

String. Returns the current sort expression for the DataWindow.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetSort function (n_cst_dwsrv_sort)

This example calls the of_GetSort function:

```
String    ls_sort


ls_sort = &
        dw_emp.inv_sort.of_GetSort()
MessageBox("Sort Service", "Sort is: " &
        + ls_sort)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_GetStyle function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2658')}
```

Description

Retrieves the current sort style (the sort style specifies which dialog box displays when you call the of_Sort function).

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetStyle** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control

instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

Integer. Returns the current sort style:

- **DEFAULT or 0** PowerBuilder Sort dialog box (default)
- **DRAGDROP or 1** PFC's w_sortdragdrop dialog box
- **SIMPLE or 2** PFC's w_sortsingle dialog box
- **DROPDOWNLISTBOX or 3** PFC's w_sortmulti dialog box

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetStyle function (n_cst_dwsrv_sort)

This example calls the of_GetStyle function:

```
IF IsValid(inv_sort) THEN

        IF inv_sort.of_GetStyle( )= 2 THEN
...
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetUseDisplay function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2660')}
```

Description

Reports whether this service is using display values for PFC sort dialog boxes.

PowerBuilder Sort dialog box always uses data values The PowerBuilder Sort dialog box always uses data values for sorting.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetUseDisplay** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

Boolean. Returns TRUE if PFC dialog boxes use display values and FALSE if they use data values.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_GetUseDisplay function (n_cst_dwsrv_sort)

This example calls the of_GetUseDisplay function:

```
...

IF idw_dw.inv_sort.of_GetUseDisplay( ) AND &
        idw_dw.inv_sort.of_UsesDisplayValue &
       (  ls_col) THEN
          ls_sort_string = ls_sort_string + &
             "LookUpDisplay(" + ls_col + ") "
ELSE
...
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetVisibleOnly function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2662')}
```

Description

Reports whether the sort service uses visible columns only.

Access

Public

Syntax

dwcontrol.*instancename*.**of_GetVisibleOnly** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

Boolean. Returns TRUE if the sort service uses visible columns only and FALSE if it uses all columns.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_GetVisibleOnly function (n_cst_dwsrv_sort)

This example calls the of_GetVisibleOnly function:

```
IF dw_emp.inv_sort.of_GetVisibleOnly() THEN

        gnv_app.of_GetFrame().SetMicroHelp &
       ("Visible columns only")
ELSE
        gnv_app.of_GetFrame().SetMicroHelp &
       ("All columns used for sort")
END IF
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_ParseSortAttrib function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2664')}
```

Description

Parses a sort statement into its component parts.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_ParseSortAttrib** (*originalsort*, *sortattrib*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
originalsort	String containing the original sort statement
sortattrib	N_cst_sortattrib instance into which the function places sort information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_ParseSortAttrib function (n_cst_dwsrv_sort)

This example is from the of_BuildSortAttrib function:

```
...

of_ParseSortAttrib(anv_sortattrib.is_sort, &
        anv_sortattrib)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_SetColumnHeader function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2666')}
```

Description

Specifies whether n_cst_dwsrv_sort sorts when the user clicks on a column header. With column header sorting (a feature found in many Windows-compliant applications), PFC sorts a DataWindow based on the column the user clicks on. If the user clicks the same column twice, PFC reverses the sort order.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetColumnHeader** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
boolean	Boolean specifying whether the service implements column header sorting (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The N-Up presentation style does not support column header sorting.

If your DataWindow object uses column header suffixes other than _t, you must first call the n_cst_dwsrv of_SetDefaultHeaderSuffix function to specify the column header suffix.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_SetColumnHeader function (n_cst_dwsrv_sort)

This example calls the of_SetColumnHeader function:

```
dw_list.inv_sort.of_SetColumnHeader(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_SetExclude function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2668')}

Description

Establishes a list of columns to be excluded from sort dialog boxes.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetExclude** (*excludecols*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
excludecols	String array specifying columns to be excluded from sort dialog boxes

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with

HelpNDoc's online capabilities

of_SetExclude function (n_cst_dwsrv_sort)

This example calls the of_SetExclude function:

```
String     ls_exclude[ ]


ls_exclude[1] = "dept_id"
dw_emp.inv_sort.of_SetExclude(ls_exclude)
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetSort function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2670')}
```

Description

Specifies a DataWindow sort string or opens a sort dialog box.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetSort** (*sort*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
sort	String containing a valid DataWindow sort expression. Column names must be preceded by a pound sign (#). If this argument is NULL, the function displays a sort dialog box

Return value

Integer. Returns 1 if the function succeeds, 0 if the user canceled out of the sort dialog box, and -1 if an error occurs.

Usage

To control the type of sort dialog box, call the of_SetStyle function.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetSort function (n_cst_dwsrv_sort)

This example calls the of_SetSort function:

```
String     ls_null

Integer    li_return

SetNull(ls_null)
```

```
dw_emp.inv_sort.of_SetStyle(1)
li_return = &
        dw_emp.inv_sort.of_SetSort(ls_null)
gnv_app.of_GetFrame().SetMicroHelp &
        ("Return code = " + String(li_return))
dw_emp.inv_sort.of_Sort( )
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetStyle function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2672')}
```

Description

Specifies the sort style. The sort style determines the dialog box that displays when the of_SetSort function is called:

Default PowerBuilder Sort dialog box

W_sortdragdrop dialog box

W_sortsingle dialog box

W_sortmulti dialog box

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetStyle** (*sortstyle*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
sortstyle	Integer or n_cst_dwsrv_sort constant specifying the sort style: • **DEFAULT or 0** PowerBuilder Sort dialog box (default) • **DRAGDROP or 1** W_sortdragdrop dialog box • **SIMPLE or 2** W_sortsingle dialog box • **DROPDOWNLISTBOX or 3** W_sortmulti dialog box

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify a sort style before calling the of_SetSort function.

To implement column header sorting (a feature found in many Windows-compliant applications), call the of_SetColumnHeader function.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetStyle function (n_cst_dwsrv_sort)

This example calls the of_SetStyle function to enable display of the w_sortdragdrop dialog box (of_SetColumnNameSource is an ancestor function, defined in n_cst_dwsrv):

```
dw_emplist.of_SetSort(TRUE)
```

```
dw_emplist.inv_sort.of_SetColumnNameSource(2)
dw_emplist.inv_sort.of_SetUseDisplay(TRUE)
dw_emplist.inv_sort.of_SetStyle  &
  (dw_emplist.inv_sort.DRAGDROP)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetUseDisplay function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2674')}
```

Description

Specifies whether PFC sorts on display values or data values, for columns that display using a code table.

PowerBuilder Sort dialog box always uses data values The PowerBuilder Sort dialog box always uses data values for sorting.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetUseDisplay** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
boolean	Boolean specifying whether to use display values (TRUE) or data values (FALSE) for sorting

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_SetUseDisplay function (n_cst_dwsrv_sort)

This example calls the of_SetUseDisplay function to specify that PFC sort dialog boxes uses display values for sorting (of_SetColumnNameSource is an ancestor function, defined in n_cst_dwsrv):

```
dw_emplist.of_SetSort(TRUE)

dw_emplist.of_SetStyle(dw_emplist.inv_sort.SIMPLE)
dw_emplist.inv_sort.of_SetUseDisplay(TRUE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetVisibleOnly function (n_cst_dwsrv_sort)

```
{button Object,JI(`>main',`cbbcgjaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2676')}
```

Description

Controls whether sort dialog boxes display all columns or visible columns only.

Access

Public

Syntax

dwcontrol.*instancename*.**of_SetVisibleOnly** (*boolean*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
boolean	Boolean indicating whether sort dialog boxes display visible columns only (TRUE) or all columns (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_SetVisibleOnly function (n_cst_dwsrv_sort)

This example calls the of_SetVisibleOnly function:

```
dw_emp.inv_sort.of_SetVisibleOnly(TRUE)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_Sort function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2678')}

Description

Sorts a DataWindow and calls the u_dw pfc_RowChanged event.

Access

Public

Syntax

dwcontrol.*instancename*.**of_Sort** ( )

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to perform a sort automatically. Call the pfc_SortDlg event to display a sort dialog box.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_Sort function (n_cst_dwsrv_sort)

This example is from the pfc_Clicked event:

```
...

li_rc = of_SetSort(ls_sortstring)
If li_rc < 0 Then Return li_rc

li_rc = of_Sort()
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_UsesDisplayValue function (n_cst_dwsrv_sort)

{button Object,JI(`>main',`cbbcgjaj')} {button Examples,JI(`>Examples',`id_pfcoref_2680')}

Description

Reports whether a column has a display value.

Access

Protected

Syntax

dwcontrol.*instancename*.**of_UsesDisplayValue** (*column*)

Argument	Description
dwcontrol	Instance name of the u_dw-based DataWindow control
instancename	Instance name of n_cst_dwsrv_sort (the u_dw default is inv_sort)
column	String specifying the column name

Return value

Boolean. Returns TRUE if the column has a display value and FALSE if it does not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_UsesDisplayValue function (n_cst_dwsrv_sort)

This example calls the of_UsesDisplayValue function:

```
IF idw_dw.inv_sort.of_GetUseDisplay() AND &

        idw_dw.inv_sort.of_UsesDisplayValue  &
               (ls_col) THEN
                      ls_sort_string = ls_sort_string + &
                             "LookUpDisplay(" + ls_col + ") "
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

n_cst_error

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_2682')}
{button Functions,JI(`>list_win',`id_pfcoref_2686')} {button
Events,JI(`>list_win',`id_pfcoref_2684')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2683')}
```

Description

Error message service. Provides many features for handling your application's error messages, including:

- Functions to enable error message display for application, SQL, DataWindow, and system errors
- Message logging to a file or database
- Automatic error notification via e-mail (MAPI-compliant e-mail systems only)
- Displaying messages in w_message (the PFC message dialog box)
- Access to an error message database (which can reside in either a database or a file)
- Symbolic parameter replacement

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

d_definedmessages

Messages table in PFC.DB (copy to your application database)

n_cst_conversion

n_cst_errorattrib

n_cst_filesrv

n_cst_string

n_ds

n_tr

w_message

Usage To use n_cst_error:

1 Create the object by calling the n_cst_appmanager of_SetError function (this example is from an n_cst_appmanager pfc_Open event:

```
this.of_SetError(TRUE)
```

2 Specify the error message source:

- If the source is a file, call the of_SetPredefinedSource function, passing the filename:

```
this.inv_error.of_SetPredefinedSource &

                    ("c:\eisapp\eiserr.txt")
```

- If the source is a database, call the of_SetPredefinedSource function, passing the transaction object:

```
this.inv_error.of_SetPredefinedSource &

                    (itr_error)
```

3 Specify the name of the log file:

```
this.inv_error.of_SetLogFile &

              ("c:\pb6\errlog.txt")
```

4 Specify the types of messages for which the error service will provide automatic notification and logging:

```
this.inv_error.of_SetNotifySeverity(5)

this.inv_error.of_SetLogSeverity(4)
```

5 If your application uses the error service's automatic notification feature, specify a MailSession variable to use. Also specify the e-mail IDs of the users to be notified automatically. This example assumes a mechanism for storing e-mail IDs and user passwords:

```
this.inv_error.of_SetNotifyConnection &

              (ims_mailsess)
this.inv_error.of_SetNotifyWho(is_autonotify  &
   is_notifylist)
```

N_cst_appmanager pfc_Open The steps listed above might all be coded in the n_cst_appmanager

pfc_Open event.

6 In your application error checking, call the of_Message function to display messages, with optional logging and notification. The of_Message function allows you to either use the message database or specify message text dynamically. This example uses the message database:

```
gnv_app.inv_error.of_Message &

                    ("EIS0210")
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_error

n_cst_errorattrib

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

n_cst_error

{button Functions,JI(`>list_win',`id_pfcoref_2686')} {button Events,JI(`>list_win',`id_pfcoref_2684')}

N_cst_error includes instance variables:

Instance variable	Description	Data type	Access	Usage
DATABASE	Constant set to "database"	String	Protected	Internal
DEFAULT	Constant set to 0	Integer	Public	Use with of_SetStyle
FILE	Constant set to "File"	String	Protected	Internal
ib_beep	Indicates whether PFC beeps when displaying a message box	Boolean	Protected	Set with of_SetBeep
ib_unattended	Indicates whether the unattended option is enabled	Boolean	Protected	Set with of_SetUnattended
ids_messages	DataStore that caches all messages at runtime	n_ds	Protected	Internal
ii_logfilestyle	Controls format of log file text	Integer	Protected	Set with of_SetLogFileStyle
ii_logseverity	Error logging threshold	Integer	Protected	Set with of_SetLogSeverity
ii_notifyseverity	Automatic notification threshold	Integer	Protected	Set with of_SetNotifySeverity
ii_style	Controls whether the service uses the PowerBuilder MessageBox (default) or the PFC w_message window	Integer	Protected	Set with of_SetStyle
ii_timeout	Timeout interval	Integer	Protected	Set with of_SetTimeout
ims_mses	MailSession for automatic error notification	MailSession	Protected	Set with of_SetNotifyConnection
inv_conversion	Reference variable for the conversion service	n_cst_conversion	Protected	Internal
inv_errorpass	Used to pass	n_cst_errorattrib	Protected	Internal

	information to error message boxes			
inv_filesrv	Reference variable for the file service	n_cst_filesrv	Protected	Internal
inv_string	Reference variable for the string service	n_cst_string	Protected	Internal
is_logfile	File to which the service writes messages	String	Protected	Set with of_SetLogFile
is_msgfile	File containing predefined error messages	String	Protected	Set with of_SetPredefinedSource (passing a string)
is_msgsrc	Input source for predefined messages: file or database	String	Protected	Set with of_SetPredefinedSource
is_notifyaddress[ ]	List of e-mail addresses to be notified when errors occur	String	Protected	Set with of_SetNotifyWho
is_notifypretitle	Prefix used with mail notification	String	Protected	Set with of_SetNotifyPreTitle
is_notifywho[ ]	List of e-mail IDs to be notified when errors occur	String	Protected	Set with of_SetNotifyWho
is_user	Prefix ;used with mail notification	String	Protected	Set with of_Message or through error message database
itr_msgdb	Transaction object forn_tr message database		Public	Set with of_SetPredefinedSource (passing a Transaction object)
NEWLINE_DELIMITED	Constant set to 2	Integer	Public	Use with of_SetLogFileStyle
PFCWINDOW	Constant set to 1	Integer	Public	Use with of_SetStyle
TAB_DELIMITED	Constant set to 1	Integer	Public	Use with of_SetLogFileStyle

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

n_cst_error

{button Functions,JI(`>list_win',`id_pfcoref_2686')} {button Instance variables,JI(`>list_win',`id_pfcoref_2683')}

Destructor event

N_cst_error includes one precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

Destructor event (n_cst_error)

{button Object,JI(`>main',`cdeddedc')}

Description

Destroys the message DataStore and the file service object.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

n_cst_error

{button Events,JI(`>list_win',`id_pfcoref_2684')} {button Instance variables,JI(`>list_win',`id_pfcoref_2683')}

of_CreateLogText function

of_CreateNotifyText function

of_GetBeep function

of_GetLogFile function

of_GetLogFileStyle function

of_GetLogSeverity function

of_GetNotifyConnection function

of_GetNotifyPreTitle function

of_GetNotifySeverity function

of_GetNotifyWho function

of_GetPredefinedSource function

of_GetPredefinedSourceType function

of_GetStyle function

of_GetTimeOut function

of_GetUnattended function

of_GetUser function

of_LoadPredefinedMsg function

of_Message function

of_ProcessLog function

of_ProcessMessage function

of_ProcessMessageSubstitution function

of_ProcessNotify function

of_SetBeep function

of_SetLogFile function

of_SetLogFileStyle function

of_SetLogSeverity function

of_SetNotifyConnection function

of_SetNotifyPreTitle function

of_SetNotifySeverity function

of_SetNotifyWho function

of_SetPredefinedSource function

of_SetStyle function

of_SetTimeOut function

of_SetUnattended function

of_SetUser function

N_cst_error includes precoded object functions:

- of_CreateLogText
- of_CreateNotifyText
- of_GetBeep
- of_GetLogFile
- of_GetLogFileStyle
- of_GetLogSeverity
- of_GetNotifyConnection
- of_GetNotifyPreTitle
- of_GetNotifySeverity
- of_GetNotifyWho
- of_GetPredefinedSource
- of_GetPredefinedSourceType
- of_GetStyle
- of_GetTimeOut
- of_GetUnattended
- of_GetUser
- of_LoadPredefinedMsg
- of_Message
- of_ProcessLog
- of_ProcessMessage
- of_ProcessMessageSubstitution
- of_ProcessNotify
- of_SetBeep
- of_SetLogFile
- of_SetLogFileStyle
- of_SetLogSeverity
- of_SetNotifyConnection
- of_SetNotifyPreTitle
- of_SetNotifySeverity
- of_SetNotifyWho
- of_SetPredefinedSource
- of_SetStyle
- of_SetTimeOut
- of_SetUnattended
- of_SetUser

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_CreateLogText function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2688')}

Description

Creates text used to perform the logging process.

Access

Protected

Syntax

application.*instancename*.**of_CreateLogText** (*text*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
text	String containing text to be logged

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

To log anything other than standard text, override this function in a descendant.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_CreateLogText function (n_cst_error)

This example is from the of_ProcessLog function:

```
...

li_rc = of_CreateLogText(ls_errortext)
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_CreateNotifyText function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2690')}
```

Description

Creates text used by the notify process.

Access

Protected

Syntax

application.*instancename*.**of_CreateNotifyText** (*subject*, *text*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
subject	String containing text used in the mail messages subject line
text	String containing message text

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

To notify with anything other than standard text, override this function in a descendant.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_CreateNotifyText function (n_cst_error)

This example is from the of_ProcessNotify function:

```
...

li_rc = of_CreateNotifyText &
        (ls_notesubject, ls_notetext)
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help

files to CHM with HelpNDoc

of_GetBeep function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2692')}
```

Description

Reports whether PFC beeps before displaying the w_message window.

Access

Public

Syntax

application.instancename.**of_GetBeep** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Boolean. Returns TRUE if PFC beeps before displaying the w_message window and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetBeep function (n_cst_error)

This example calls the of_GetBeep function:

```
IF gnv_app.inv_error.of_GetBeep() THEN

        MessageBox("Error", "Beep enabled"
ELSE
        MessageBox("Error", "Beep disabled"
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_GetLogFile function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2694')}
```

Description

Retrieves the name of the log file.

Access

Public

Syntax

application.instancename.**of_GetLogFile** ( )

Argument	Description

application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

String. Returns the name of the log file.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetLogFile function (n_cst_error)

This example calls the of_GetLogFile function:

```
String    ls_logfile


ls_logfile = gnv_app.inv_error.of_GetLogFile()
...
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_GetLogFileStyle function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2696')}
```

Description

Retrieves the log file style, which specifies the format of the log file.

Access

Public

Syntax

application.*instancename*.**of_GetLogFileStyle** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)

Return value

Integer. Returns the log file style:

- **TAB_DELIMITED or 1** Tab delimited log file
- **NEWLINE_DELIMITED or 2** Newline delimited log file

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetLogFileStyle function (n_cst_error)

This example calls the of_GetLogFileStyle function:

```
Integer li_style


li_style = gnv_app.inv_error.of_GetLogFileStyle()
IF li_style = gnv_app.inv_error.TAB_DELIMITED THEN
        MessageBox("Log File Style", "Tab delimited")
ELSE
        MessageBox("Log File Style", "Newline delimited")
END IF
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetLogSeverity function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2698')}

Description

Retrieves the current log severity level.

Access

Public

Syntax

application.*instancename*.**of_GetLogSeverity** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns the log severity level.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetLogSeverity function (n_cst_error)

This example calls the of_GetLogSeverity function:

```
Integer   ii_severity


ii_severity = gnv_app.inv_error.of_GetLogSeverity( )
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetNotifyConnection function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2700')}
```

Description

Retrieves the mail session used for automatic notification.

Access

Public

Syntax

application.instancename.**of_GetNotifyConnection** (*mailsession*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
mailsession	MailSession variable into which the function places the current mail connection (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetNotifyConnection function (n_cst_error)

This example calls the of_GetNotifyConnection function:

```
MailSession    lms_mses

Integer        li_return

li_return = &
        gnv_app.inv_error.of_GetNotifyConnection &
       (lms_mses)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_GetNotifyPreTitle function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2702')}
```

Description

Retrieves the prefix used with automatic e-mail notification.

Access

Public

Syntax

application.instancename.**of_GetNotifyPreTitle** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)

Return value

String. Returns the prefix used with automatic e-mail notification.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetNotifyPreTitle function (n_cst_error)

This example calls the of_GetNotifyPreTitle function:

```
String  ls_prefix


ls_prefix = gnv_app.inv_error.of_GetNotifyPreTitle()
MessageBox("Prefix", "Prefix is " + ls_prefix)
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_GetNotifySeverity function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2704')}
```

Description

Retrieves the current notify severity level.

Access

Public

Syntax

application.instancename.**of_GetNotifySeverity** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns the current notify severity.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_GetNotifySeverity function (n_cst_error)

This example calls the of_GetNotifySeverity function:

```
Integer   ii_severity
```

```
ii_severity = &
        gnv_app.inv_error.of_GetNotifySeverity()
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_GetNotifyWho function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2706')}

Description

Retrieves a list of users to be notified when errors occur.

Access

Public

Syntax

application.*instancename*.**of_GetNotifyWho** (*users*, *addresses*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
users	String array into which the function places the list of users to be notified when errors occur (passed by reference)
addresses	String array into which the function places the list of e-mail addresses to be notified when errors occur (passed by reference)

Return value

Integer. Returns the number of users and addresses to notify.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_GetNotifyWho function (n_cst_error)

This example calls the of_GetNotifyWho function:

```
String    ls_notify[ ]

Integer   li_count, li_return

li_return = &
        gnv_app.inv_error.of_GetNotifyWho(ls_notify)

FOR li_count = 1 to li_return
        lb_who.Item[li_count] = ls_notify[li_count]
NEXT
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetPredefinedSource function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2708')}
```

Description

Retrieves the source for predefined messages. This is either a file or a Transaction object connected to a database containing the messages.

Access

Public

Syntax

application.instancename.**of_GetPredefinedSource** (*source*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
source	String or n_tr variable for predefined messages

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetPredefinedSource function (n_cst_error)

This example calls the of_GetPredefinedSource function:

```
String     ls_source

Integer    li_return

li_return = &
        gnv_app.inv_error.of_GetPredefinedSource  &
               (ls_source)
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetPredefinedSourceType function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2710')}
```

Description

Reports the message source type: file or database.

Access

Public

Syntax

application.instancename.**of_GetPredefinedSourceType** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

String. Returns the message source type:

File

Database

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_GetPredefinedSourceType function (n_cst_error)

This example calls the of_GetPredefinedSourceType function:

```
String    ls_source


ls_source = &
        gnv_app.inv_error.of_GetPredefinedSourceType()
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_GetStyle function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2712')}
```

Description

Retrieves the current message box style:

PowerBuilder MessageBox

PFC w_message window

Access

Public

Syntax

application.*instancename*.**of_GetStyle** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns the message box style:

- **DEFAULT or 0** PowerBuilder MessageBox

- **PFCWINDOW or 1** PFC w_message window

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetStyle function (n_cst_error)

This example calls the of_GetStyle function:

```
Integer    li_return


li_return = gnv_app.inv_error.of_GetStyle()
...
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetTimeOut function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2714')}
```

Description

Retrieves the number of seconds before a w_message dialog box closes automatically.

Access

Public

Syntax

application.*instancename*.**of_GetTimeOut** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns the number of seconds before PFC automatically closes a w_message dialog box. A value of 0 indicates that PFC does not close w_message automatically.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_GetTimeOut function (n_cst_error)

This example calls the of_GetTimeOut function:

```
Integer    li_return


li_return = &
        gnv_app.inv_error.of_GetTimeOut( )
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_GetUnattended function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2716')}
```

Description

Reports whether the unattended option is enabled.

Access

Public

Syntax

application.instancename.**of_GetUnattended** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Boolean. Returns TRUE if the unattended option is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetUnattended function (n_cst_error)

This example calls the of_GetUnattended function:

```
...

IF gnv_app.inv_error.of_GetUnattended( ) THEN
        MessageBox("Error", "Unattended enabled")
ELSE
        MessageBox("Error", "Unattended disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetUser function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2718')}
```

Description

Retrieves the user name.

Access

Public

Syntax

application.instancename.**of_GetUser** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)

Return value

String. Returns the user name as specified by the of_SetUser function.

Usage

The user name is used in message logging and automatic e-mail notification.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetUser function (n_cst_error)

This example calls the of_GetUser function:

```
String  ls_user


ls_user = gnv_app.inv_error.of_GetUser()
MessageBox("User", "User is " + ls_user)
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_LoadPredefinedMsg function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2720')}
```

Description

Loads or reloads the message cache from the source file or database.

Access

Public

Syntax

application.instancename.**of_LoadPredefinedMsg** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_LoadPredefinedMsg function (n_cst_error)

This example calls the of_LoadPredefinedMsg function:

```
Integer    li_return


li_return = &
        gnv_app.inv_error.of_LoadPredefinedMsg()
...
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_Message function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')}

Displays the w_message dialog box using either the ids_messages DataStore or a passed string. There are two syntaxes.

To	Use
Display a specified message from the ids_messages DataStore	Syntax 1
Display a message using a passed string	Syntax 2

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

Syntax 1 Display message text from the ids_messages DataStore

Syntax 1 Display message text from the ids_messages DataStore

{button Examples,JI(`>Examples',`id_pfcoref_2723')}

Description

Displays message text and display information from the ids_messages DataStore.

Access

Public

Syntax

application.instancename.**of_Message** (*messageid* {, *substitutions* {, *overridetitle* } })

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
messageid	String specifying the identifier of the message to be displayed. This value must be in the msgnumber column of the ids_messages DataStore
substitutions (optional)	String array specifying substitution parameters for the message. The message source indicates substitution parameters with %s
overridetitle (optional)	String specifying a title to override the default title

Return value

Integer. Returns the button the user clicked if the function succeeds and -1 if an error occurs.

Usage

Call this function to display a predefined message from the ids_messages DataStore.

This function displays either the PowerBuilder MessageBox or the PFC w_message window, depending on what you specify for the of_SetStyle function.

The function uses substitution parameters to replace percent sign characters (%) in the predefined message. You define one element in the *substitution* array for each % in the predefined message text; the first element in the array replaces the first %, the second element replaces the second %, and so on.

Use Syntax 2 to display w_message passing message text in a string.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

Syntax 1 Display message text from the ids_messages DataStore

This example calls the of_Message function:

```
gnv_app.inv_error.of_Message("EIS0210")
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

Syntax 2 Display a message using a passed string

Syntax 2 Display a message using a passed string

{button Examples,JI(`>Examples',`id_pfcoref_2725')}

Description

Displays message text and display information from passed arguments.

Access

Public

Syntax

application.*instancename*.**of_Message** (*title*, *message* {, *icon* {, *button* {, *default* {, *severity*, *print*, *userinput* } } } })

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
title	String specifying the title of the w_message dialog box
message	String specifying the message text
icon (optional)	Icon enumerated data type indicating the icon you want to display on the left side of the message box. Values are: • Information! (Default) • StopSign! • Exclamation! • Question!

	• None!
button (optional)	Button enumerated data type indicating the set of CommandButtons you want to display at the bottom of the message box. The buttons are numbered in the order listed in the enumerated data type. Values are: • OK! (default) • OKCancel! • YesNo! • YesNoCancel! • RetryCancel! • AbortRetryIgnore!
default (optional)	Integer specifying the number of the button you want to be the default button. The default is 1. If you specify a number larger than the number of buttons displayed, w_message uses the default
severity (optional)	Integer indicating message severity
print (optional)	Boolean indicating whether to display a print button
userinput (optional)	Boolean indicating whether the cb_userinput button displays, allowing the users to specify additional information

Return value

Integer. Returns the button the user clicked if the function succeeds and -1 if an error occurs.

Usage

Call this function to display a string in the w_message dialog box, optionally specifying additional information to be displayed.

This function displays either the PowerBuilder MessageBox or the PFC w_message window, depending on what you specify for the of_SetStyle function. The *print* and *userinput* arguments apply only when using the PFC w_message window.

Use Syntax 1 to display w_message accessing a message in the ids_messages DataStore.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

Syntax 2 Display a message using a passed string

This example calls the of_Message function:

```
Integer   li_return


li_return = &
        gnv_app.inv_error.of_Message &
               ("EIS Application", &
                      "Data has changed. Call Sys Admin.", &
                             Information!, Ok!, 1, 100, FALSE, FALSE)
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_ProcessLog function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2727')}
```

Description

Writes a message to the log file.

Access

Protected

Syntax

instancename.**of_ProcessLog** ( )

Argument	Description
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_ProcessLog function (n_cst_error)

This example is from the of_ProcessMessage function:

```
...

IF (inv_errorpass.ii_severity >= ii_logseverity) THEN
        li_testrc = of_ProcessLog( )
END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_ProcessMessage function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2729')}
```

Description

Processes a message, logging it and notifying administrators as appropriate.

Access

Protected

Syntax

instancename.**of_ProcessMessage** ( )

Argument	Description
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns the button pressed on the message window if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_ProcessMessage function (n_cst_error)

This example is from the of_Message function:

```
...

Return of_ProcessMessage( )
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_ProcessMessageSubstitution function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2731')}
```

Description

Replaces substitution parameters in a message with the passed values.

Access

Protected

Syntax

instancename.**of_ProcessMessageSubstitution** (*parms*)

Argument	Description
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
parms	String array containing the values to be substituted into the message replacing %s

Return value

Integer. Returns 1 if the function succeeds, 0 if it could not correctly convert the substitution, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_ProcessMessageSubstitution function (n_cst_error)

This example is from the of_Message function:

```
...
IF UpperBound (as_msgparms) > 0 THEN
        li_rc = &
               of_ProcessMessageSubstitution(as_msgparms)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_ProcessNotify function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2733')}

Description

Sends an e-mail notification to the list of users specified in the of_SetNotifyWho function.

Access

Protected

Syntax

instancename.**of_ProcessNotify** ( )

Argument	Description
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

Return value

Integer. Returns 1 if the function succeeds, 0 if there is no mail connection or the list is empty, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_ProcessNotify function (n_cst_error)

This example is from the of_ProcessMessage function:

```
...

IF (inv_errorpass.ii_severity >= &
        ii_notifyseverity) THEN
       li_testrc = of_ProcessNotify( )
END IF

Return inv_errorpass.ii_buttonclicked
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetBeep function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2735')}
```

Description

Specifies whether PFC beeps before displaying the w_message window.

Access

Public

Syntax

application.instancename.**of_SetBeep** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
boolean	Boolean specifying whether to beep (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetBeep function (n_cst_error)

This example calls the of_SetBeep function:

```
gnv_app.inv_error.of_SetBeep(TRUE)
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetLogFile function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2737')}

Description

Specifies the name of the log file.

Access

Public

Syntax

application.instancename.**of_SetLogFile** (*logfile*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)

logfile	String specifying the name of the file to contain logged messages

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The function will create *logfile* if it doesn't exist. To disable logging, call this function passing an empty string. By default, PFC writes all loggable messages to errlog.txt.

N_cst_error appends messages to the end of the log file. You might consider purging it regularly.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetLogFile function (n_cst_error)

This example calls the of_SetLogFile function:

```
gnv_app.inv_error.of_SetLogFile &

        ("c:\eisapp\eislog.txt")
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetLogFileStyle function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2739')}
```

Description

Specifies the formatting used for message logging.

Access

Public

Syntax

application.instancename.**of_SetLogFileStyle** (*logstyle*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)
logstyle	Integer or n_cst_error constant specifying the log file style: • **TAB_DELIMITED or 1** Log entry items are separated by a tab • **NEWLINE_DELIMITED or 2** Log entry items are separated by a newline character

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

A newline delimited log file is easier to read but contains more lines.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_SetLogFileStyle function (n_cst_error)

This example calls the of_SetLogFileStyle function:

```
...

this.inv_error.of_SetLogFileStyle  &
   (this.inv_error.NEWLINE_DELIMITED)
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_SetLogSeverity function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2741')}
```

Description

Specifies the log severity level.

Access

Public

Syntax

application.*instancename*.**of_SetLogSeverity** (*level*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
level	Integer specifying the logging threshold

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Messages have a default severity of zero. To log all messages, call this function passing -1. N_cst_error automatically logs messages with a severity higher than *level*.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetLogSeverity function (n_cst_error)

This example calls the of_SetLogSeverity function:

```
gnv_app.inv_error.of_SetLogSeverity(5)
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_SetNotifyConnection function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2743')}

Description

Sets the mail session used for automatic notification.

Access

Public

Syntax

application.instancename.**of_SetNotifyConnection** (*mailsession*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
mailsession	MailSession variable containing a valid mail connection

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Create a valid mail connection by instantiating *mailsession* and calling the PowerScript MailLogon function.

32-bit PowerBuilder must use a 32-bit e-mail system; 16-bit PowerBuilder must use a 16-bit e-mail system.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetNotifyConnection function (n_cst_error)

This example calls the of_SetNotifyConnection function:

```
...

gnv_app.inv_error.of_SetNotifyConnection(ims_sess)
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetNotifyPreTitle function (n_cst_error)

{button Object,JI(`>main',`cdeddedc')} {button Examples,JI(`>Examples',`id_pfcoref_2745')}

Description

Specifies the prefix that displays on automatic e-mail notifications.

Access

Public

Syntax

application.instancename.**of_SetNotifyPreTitle** (*prefix*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)
prefix	String specifying the prefix

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetNotifyPreTitle function (n_cst_error)

This example calls the of_SetNotifyPreTitle function:

```
...

this.inv_error.of_SetNotifyPreTitle  &
   ("EISAPP AutoMessage - ")
...
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetNotifySeverity function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2747')}
```

Description

Specifies the message severity threshold, above which the users specified in the of_SetNotifyWho function are automatically notified via e-mail.

Access

Public

Syntax

application.instancename.**of_SetNotifySeverity** (*threshold*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant. (must be gnv_app).
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
threshold	Integer specifying the value above which the error service sends automatic notification

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When a message occurs, PFC compares the message's severity with the threshold value. If the message's severity is higher, PFC sends a notification via e-mail.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetNotifySeverity function (n_cst_error)

This example, from an n_cst_appmanager pfc_Open event, calls the of_SetNotifySeverity function:

```
this.of_SetError(TRUE)

this.inv_error.of_SetPredefinedSource &
        ("c:\eisapp\eiserr.txt")
this.inv_error.of_SetNotifySeverity(4)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_SetNotifyWho function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2749')}
```

Description

Establishes the list of e-mail user IDs that are notified when certain errors occur.

MAPI-compliant e-mail systems only PFC's automatic error notification works with MAPI-compliant systems only. To use this feature with non-MAPI e-mail systems, you must extend this functionality.

Access

Public

Syntax

application.instancename.**of_SetNotifyWho** (*userlist* {, *addresslist* })

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
userlist	String array containing the e-mail IDs of users to be notified when certain errors occur
addresslist	String array containing the e-mail addresses of users to be notified when certain errors occur

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_SetNotifyWho function (n_cst_error)

This example calls the of_SetNotifyWho function:

```
String    ls_notify[ ] = {"Doe, John", "Burt, Ben"}


gnv_app.inv_error.of_SetNotifyWho(ls_notify)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetPredefinedSource function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2751')}
```

Description

Specifies the source for predefined messages. This is either a file or a Transaction object connected to a database containing the messages. This function also loads the messages from the source into the ids_messages DataStore.

Access

Public

Syntax

application.*instancename*.**of_SetPredefinedSource** (*source*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
source	String specifying a filename or n_tr variable for predefined messages. If this is an n_tr variable, it must already be instantiated and connected to the message database

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If *source* specifies an n_tr-based Transaction object, it must be instantiated and the database must contain a table named *messages* whose columns match those in PFC's d_definedmessages DataWindow object.

If *source* specifies a filename, the file must contain tab-delimited messages in a format that corresponds to PFC's d_definedmessages DataWindow object; and the file must contain predefined PFC messages, copied from the messages table in the PFC database.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_SetPredefinedSource function (n_cst_error)

This example calls the of_SetPredefinedSource function:

```
String    ls_source

Integer   li_return
```

```
ls_source = "c:\eisapp\eismsg.txt"
li_return = &
        gnv_app.inv_error.of_SetPredefinedSource &
               (ls_source)
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_SetStyle function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2753')}
```

Description

Specifies the message box style:

PowerBuilder MessageBox

PFC w_message window

Access

Public

Syntax

application.*instancename*.**of_SetStyle** (*style*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
style	Integer or n_cst_error constant specifying the message box style: • **DEFAULT or 0** PowerBuilder MessageBox • **PFCWINDOW or 1** PFC w_message window

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you use the w_message window, the of_Message function can optionally include print and user input capabilities.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_SetStyle function (n_cst_error)

This example calls the of_SetStyle function:

```
Integer    li_return


li_return = gnv_app.inv_error.of_SetStyle  &
   (gnv_app.inv_error.PFCWINDOW)
...
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetTimeOut function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2755')}
```

Description

Specifies the number of seconds a w_message dialog box will stay open.

Access

Public

Syntax

application.*instancename*.**of_SetTimeOut** (*seconds*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
seconds	Integer specifying the number of seconds that the w_message dialog box will stay open. If you specify 0, the dialog box stays open until the user closes it

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Timeout processing only applies when using the w_message window.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetTimeOut function (n_cst_error)

This example calls the of_SetTimeOut function:

```
...

this.inv_error.of_SetTimeOut(60)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_SetUnattended function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2757')}
```

Description

Specifies whether the unattended option is enabled.

Access

Public

Syntax

application.*instancename*.**of_SetUnattended** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this is inv_error)
boolean	Boolean indicating whether unattended processing is enabled (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use unattended processing to suppress message display while still using message logging and automatic e-mail notification.

Unattended processing only applies when using the w_message window.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_SetUnattended function (n_cst_error)

This example calls the of_SetUnattended function:

```
...

this.inv_error.of_SetLogFile &
        ("c:\pb6i32\errlog.txt")
this.inv_error.of_SetUnattended(TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_SetUser function (n_cst_error)

```
{button Object,JI(`>main',`cdeddedc')} {button
Examples,JI(`>Examples',`id_pfcoref_2759')}
```

Description

Specifies the user name.

Access

Public

Syntax

application.instancename.**of_SetUser** ( )

Argument	Description
application	Global variable of type n_cst_appmanager or a customized n_cst_appmanager descendant (must be gnv_app)
instancename	Instance name of n_cst_error (the n_cst_appmanager default for this value is inv_error)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The user name is used in message logging and automatic e-mail notification.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_SetUser function (n_cst_error)

This example calls the of_SetUser function:

```
this.inv_error.of_SetUser(this.of_GetUserID())
```

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

n_cst_filesrv

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_2762')} {button Functions,JI(`>list_win',`id_pfcoref_2764')} {button Instance variables,JI(`>list_win',`id_pfcoref_2763')} {button Descendants,JI(`>list_win',`id_pfcoref_2761')}

Description

Ancestor object for platform-specific file-access functions. Many of the functions in this object are virtual functions and return -1, FALSE, or an empty string. A virtual function is an empty placeholder function; the actual processing occurs in its descendants.

Defining virtual functions in an ancestor object is a technique that allows you to define a reference variable with the ancestor's data type but instantiate the variable with the descendant's data type. PFC contains descendent objects for each supported platform.

Ancestry

Public	of_AssemblePath	Public	of_GetFileAttributes
Protected	of_CalculateFileAttributes	Public	of_GetFileSize
Public	of_ChangeDirectory	Public	of_GetLastAccessDate
Public	of_CreateDirectory	Public	of_GetLastWriteDate
Public	of_DelTree	Public	of_GetLastWriteDateTime
Protected	of_DirAttribToDS	Public	of_GetLastWriteTime
Public	of_DirectoryExists	Public	of_GetLongFilename
Public	of_Dirlist	Public	of_GetSeparator
Protected	of_DSToDirAttrib	Protected	of_IncludeFile
Public	of_FileCopy	Public	of_ParsePath
Public	of_FileRead	Public	of_RemoveDirectory
Public	of_FileRename	Public	of_SetCreationDateTime
Public	of_FileWrite	Public	of_SetFileArchive
Public	of_GetAltFilename	Public	of_SetFileAttributes
Public	of_GetCreationDate	Public	of_SetFileHidden
Public	of_GetCreationDateTime	Public	of_SetFileReadonly
Public	of_GetCreationTime	Public	of_SetFileSystem
Public	of_GetCurrentDirectory	Public	of_SetLastAccessDate
Public	of_GetDiskSpace	Public	of_SetLastWriteDateTime
Public	of_GetDriveType	Public	of_SortDirlist

Library

PFCAPSRV.PBL

PFEAPSRV.BPL

Object relationships

n_cst_dirattrib

n_cst_numerical

n_cst_string

n_ds

Usage

To use the file service:

1. Instantiate the appropriate file services object by calling the f_SetFilesrv global function. This function examines your environment and instantiates the appropriate user object.
2. Call file services functions, as required. The code for many of these functions is defined in the descendent objects. If the function isn't available on your platform, PowerBuilder executes the ancestor (n_cst_filesrv) function, which returns -1, FALSE, or an empty string.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

n_cst_filesrv

n_cst_filesrvwin32

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

n_cst_filesrv

f_SetFilesrv

n_cst_platform

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

n_cst_filesrv

{button Functions,JI(`>list_win',`id_pfcoref_2764')}

N_cst_filesrv includes instance variables:

Instance variable	Description	Data type	Access	Usage
ids_files	Used for sorting	n_ds	Protected	Internal
is_allfiles	Operating system specific characters to indicate all files (for example, *.* in DOS)	String	Protected	Internal
is_separator	Separator character used by the operating system when specifying a file's fully qualified pathname	String	Protected	Internal

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

n_cst_filesrv

{button Instance variables,JI(`>list_win',`id_pfcoref_2763')}

of_AssemblePath function

of_CalculateFileAttributes function

of_ChangeDirectory function

of_CreateDirectory function

of_DelTree function

of_DirAttribToDS function

of_DirectoryExists function

of_DirList function

of_DSToDirAttrib function

of_FileCopy function

of_FileRead function

of_FileRename function

of_FileWrite function

of_GetAltFilename function

of_GetCreationDate function

of_GetCreationDateTime function

of_GetCreationTime function

of_GetCurrentDirectory function

of_GetDiskSpace function

of_GetDriveType function

of_GetFileAttributes function

of_GetFileSize function

of_GetLastAccessDate function

of_GetLastWriteDate function

of_GetLastWriteDateTime function

of_GetLastWriteTime function

of_GetLongFilename function

of_GetSeparator function

of_IncludeFile function

of_ParsePath function

of_RemoveDirectory function

of_SetCreationDateTime function

of_SetFileArchive function

of_SetFileAttributes function

of_SetFileHidden function

of_SetFileReadonly function

of_SetFileSystem function

of_SetLastAccessDate function

__of_SetLastWriteDateTime__function

_of_SortDirList function

N_cst_filesrv includes precoded object functions, most of which are virtual functions with corresponding versions in n_cst_filesrv descendants. With few exceptions, these functions return -1 or an empty string.

By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

N_cst_filsrv includes precoded object functions:

- of_AssemblePath
- of_CalculateFileAttributes
- of_ChangeDirectory
- of_CreateDirectory
- of_DelTree
- of_DirAttribToDS
- of_DirectoryExists
- of_DirList
- of_DSToDirAttrib
- of_FileCopy
- of_FileRead
- of_FileRename
- of_FileWrite
- of_GetAltFilename
- of_GetCreationDate
- of_GetCreationDateTime
- of_GetCreationTime
- of_GetCurrentDirectory
- of_GetDiskSpace
- of_GetDriveType
- of_GetFileAttributes
- of_GetFileSize
- of_GetLastAccessDate
- of_GetLastWriteDate
- of_GetLastWriteDateTime
- of_GetLastWriteTime
- of_GetLongFilename
- of_GetSeparator
- of_IncludeFile
- of_ParsePath
- of_RemoveDirectory
- of_SetCreationDateTime
- of_SetFileArchive
- of_SetFileAttributes
- of_SetFileHidden
- of_SetFileReadonly
- of_SetFileSystem
- of_SetLastAccessDate
- of_SetLastWriteDateTime
- of_SortDirList

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_AssemblePath function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2766')}

Description

Assembles a fully qualified directory path from its component parts.

Access

Public

Syntax

instancename.**of_AssemblePath** (*drive*, *path*, *filename* {, *extension* })

Argument	Description
instancename	Instance name of n_cst_filesrv
drive	String specifying the drive name. The colon is optional
path	String specifying the directory path. The initial backslash is optional
filename	String specifying the name of the file
extension (optional)	String specifying the 1-to-3 character file extension. The default is an empty string

Return value

String. Returns the fully qualified directory path.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_AssemblePath function (n_cst_filesrv)

This example calls the of_AssemblePath function (it assumes an inv_filesrv instance variable):

```
String    ls_drive, ls_dirpath, ls_filename

String    ls_extension, ls_fullpath

ls_fullpath = inv_filesrv.of_AssemblePath &
        (ls_drive, ls_dirpath, ls_filename, ls_extension)
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_CalculateFileAttributes function (n_cst_filesrv)

```
{button Object,JI(`>main',`cdecigag')} {button
Examples,JI(`>Examples',`id_pfcoref_2768')}
```

Description

Calculates a file's attribute byte.

Access

Protected

Syntax

instancename.**of_CalculateFileAttributes** (*filename*, *readonly*, *hidden*, *system*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the files whose attributes will be set. If *filename* does not specify a fully qualified path, the function works relative to the current directory
readonly	Boolean indicating the read-only attribute. If you specify NULL for this argument, the function does not change the read-only attribute
hidden	Boolean indicating the hidden attribute. If you specify NULL for this argument, the function does not change the hidden attribute
system	Boolean indicating the system attribute. If you specify NULL for this argument, the function does not change the system attribute
archive	Boolean indicating the archive attribute. If you specify NULL for this argument, the function does not change the archive attribute

Return value

UnsignedLong. Returns the new attribute byte if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_CalculateFileAttributes function (n_cst_filesrv)

This example is from the n_cst_filesrvwin32 of_SetFileAttributes function:

```
Integer    li_rc

ULong      lul_attrib

lul_attrib = of_CalculateFileAttributes &
        (as_filename, ab_readonly, ab_hidden, &
               ab_system, ab_archive)
IF lul_Attrib = -1 THEN Return -1
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_ChangeDirectory function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2770')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_ChangeDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_ChangeDirectory function (n_cst_filesrv)

n_cst_filesrvwin32 of_ChangeDirectory function

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_CreateDirectory function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2772')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_CreateDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_CreateDirectory function (n_cst_filesrv)

n_cst_filesrvwin32 of_CreateDirectory function

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_DelTree function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2774')}

Description

Recursively deletes a directory, along with all of its files and subdirectories.

Access

Public

Syntax

instancename.**of_DelTree** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String specifying the path to the directory to be deleted. If you do not specify an absolute path, this function deletes relative to the current working directory

Return value

Integer. Returns 0 if the function succeeds, 1 if the directory does not exist, and a negative number if an error occurs.

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_DelTree function (n_cst_filesrv)

This example erases the directory named in the sle_del_directory SingleLineEdit, its files, its subdirectories, and its subdirectory's files (it assumes an inv_filesrv instance variable):

```
Integer   li_return


li_return = MessageBox("Delete", &
```

```
         "Delete all files and directories in " + &
        sle_del_directory.Text + "?", &
           Exclamation!, OKCancel!, 2)
IF li_return = 1 THEN
         li_return = inv_filesrv.of_DelTree &
        (sle_del_directory.Text)
         IF li_return = 1 THEN
        MessageBox("Delete", "Directory not found")
        Return
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_DirAttribToDS function (n_cst_filesrv)

```
{button Object,JI(`>main',`cdecigag')} {button
Examples,JI(`>Examples',`id_pfcoref_2776')}
```

Description

Copies the passed n_cst_dirattrib structure object to a DataStore.

Access

Protected

Syntax

instancename.**of_DirAttribToDS** (*datastore*, *entry*, *file*, *group*)

Argument	Description
instancename	Instance name of n_cst_filesrv
datastore	N_ds
entry	N_cst_dirattrib
file	String
group	Integer

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_DirAttribToDS function (n_cst_filesrv)

This example is from the of_SortDirList function:

```
...

If anv_DirList[li_Cnt].ib_Subdirectory Then
  ls_sortfilename = Mid(lnv_direntry.is_FileName, &
    2, (Len(lnv_direntry.is_FileName) - 2))
  of_DirAttribToDS(lds_files, lnv_direntry,  &
    ls_sortfilename, 0)
...
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with

HelpNDoc's WinHelp HLP to CHM conversion

of_DirectoryExists function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2778')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_DirectoryExists** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String

Return value

Boolean. Always returns FALSE.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_DirectoryExists function (n_cst_filesrv)

n_cst_filesrvwin32 of_DirectoryExists function

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_DirList function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2780')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_DirList** (*filespec*, *filetype*, *dirlist*, *sorttype*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filespec	String
filetype	Long
dirlist	N_cst_dirlistattrib structure object (passed by reference)
sorttype	Integer

Return value

Long. Always returns -1.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_DirList function (n_cst_filesrv)

n_cst_filesrvwin32 of_DirList function

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_DSToDirAttrib function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2782')}

Description

Copies the specified row in the passed DataStore to an n_cst_dirattrib structure object.

Access

Protected

Syntax

instancename.**of_DSToDirAttrib** (*datastore*, *entry*, *row*)

Argument	Description
instancename	Instance name of n_cst_filesrv
datastore	N_ds
entry	N_cst_dirattrib (passed by reference)
row	Long

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_DSToDirAttrib function (n_cst_filesrv)

This example is from the of_SortDirList function:

```
...

ll_rowcount = lds_files.RowCount()
FOR li_cnt = 1 TO ll_rowcount
        of_DSToDirAttrib(lds_files, lnv_direntry, li_cnt)
        anv_dirlist[li_pos] = lnv_direntry
        li_pos++
NEXT
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_FileCopy function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2784')}

Description

Copies one file to another, optionally appending to the target file.

Access

Public

Syntax

instancename.**of_FileCopy** (*sourcefile*, *targetfile* {, *append* })

Argument	Description
instancename	Instance name of n_cst_filesrv
sourcefile	String specifying the name of the file to be copied. If *sourcefile* does not specify a fully qualified path, the function works relative to the current directory
targetfile	String specifying the name of the target file. If *targetfile* does not specify a fully qualified path, the function works relative to the current directory
append (optional)	Boolean specifying whether to append to *targetfile* (TRUE) or replace it (FALSE)

Return value

Integer. Returns values as follows:

1—Success

-1—Error opening *sourcefile*

-2—Error writing *targetfile*

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_FileCopy function (n_cst_filesrv)

This example calls the of_FileCopy function to copy the file specified in the sle_source SingleLineEdit to the file specified in the sle_target SingleLineEdit, replacing the previous contents of the target file. It assumes that n_cst_filesrv has been created using the inv_filesrv instance variable:

```
Integer   li_return


li_return = &
        inv_filesrv.of_FileCopy(sle_source.text, &
                sle_target.text, FALSE)
CHOOSE CASE li_return
        CASE -1
       MessageBox("Copy Error", &
          "Error opening source file")
        CASE -2
       MessageBox("Copy Error", &
          "Error reading source file")
        CASE -3
```

```
        MessageBox("Copy Error", &
           "Error accessing target file")
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_FileRead function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')}

Reads a file into a Blob or string array. There are two syntaxes:

To	Use
Read a file into a BLOB variable	Syntax 1
Read a file into a string array	Syntax 2

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

Syntax 1 To read a file into a Blob variable

Syntax 1 To read a file into a Blob variable

{button Examples,JI(`>Examples',`id_pfcoref_2787')}

Description

Reads a file into a Blob variable.

Access

Public

Syntax

instancename.**of_FileRead** (*filename*, *blob*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file to be read. If *filename* does not specify a fully qualified path, the function works relative to the current directory
blob	Blob variable into which the function copies the contents of *filename* (passed by reference)

Return value

Long. Returns the size of *blob* if the function succeeds and -1 if an error occurs.

Usage

Call this function to access files in any size or format, including bitmaps and text files.

Use Syntax 2 to read a file into a string array.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

Syntax 1 To read a file into a Blob variable

This example calls the of_FileRead function (it assumes an inv_filesrv instance variable):

```
Long   ll_return

Blob   lblb_file

ll_return = inv_filesrv.of_FileRead &
        (sle_filename.text, lblb_file)
CHOOSE CASE ll_return
        CASE -1
       MessageBox("Error", "Error accessing file")
        CASE ELSE
       // File processing goes here
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

Syntax 2 To read a file into a string array

Syntax 2 To read a file into a string array

{button Examples,JI(`>Examples',`id_pfcoref_2789')}

Description

Reads the contents of a file into a string array. Each element in the string array holds 32K of data.

Access

Public

Syntax

instancename.**of_FileRead** (*filename*, *text*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file to be read. If *filename* does not specify a fully qualified path, the function works relative to the current directory
text	String array into which the function copies the contents of *filename*

Return value

Integer. Returns the number of elements in the *text* array if the function succeeds and -1 if an error occurs.

Usage

Call this function to access text files of any size.

Use Syntax 1 to read files of any format into a Blob.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

Syntax 2 To read a file into a string array

This example calls the of_FileRead function (it assumes an inv_filesrv instance variable):

```
Integer   li_return

String    ls_file[ ]

li_return = inv_filesrv.of_FileRead &
        (sle_filename.text, ls_file)
```

```
CHOOSE CASE li_return
        CASE -1
       MessageBox("Error", "Error accessing file")
        CASE ELSE
       // File processing goes here
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_FileRename function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2791')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_FileRename** (*oldname*, *newname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
oldname	String
newname	String

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_FileRename function (n_cst_filesrv)

n_cst_filesrvwin32 of_FileRename function

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_FileWrite function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')}

Writes a file from a Blob or string. There are two syntaxes:

To	Use
Write a file from a Blob variable	Syntax 1
Write a file from a string	Syntax 2

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

Syntax 1 To write from a BLOB variable

Syntax 1 To write from a BLOB variable

{button Examples,JI(`>Examples',`id_pfcoref_2794')}

Description

Writes the contents of a blob variable to a file.

Access

Public

Syntax

instancename.**of_FileWrite** (*filename*, *blob* {, *append* })

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file to be written. If *filename* does not specify a fully qualified path, the function works relative to the current directory
blob	Blob variable from which the function copies to *filename*
append (optional)	Boolean specifying whether to append to (TRUE) or overwrite (FALSE) *filename*. The default is TRUE

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to write files in any format, including bitmaps and text files.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

Syntax 1 To write from a BLOB variable

This example calls the of_FileWrite. It assumes that n_cst_filesrv has been created using the inv_filesrv instance variable:

```
Blob   lblb_file

... // Logic to populate lblb_file
IF inv_filesrv.of_FileWrite &
        (sle_filename.text, lblb_file, FALSE) = -1 THEN
       MessageBox("Write Error", &
          "Error writing BLOB file")
END IF
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

Syntax 2 To write from a string

Syntax 2 To write from a string

{button Examples,JI(`>Examples',`id_pfcoref_2796')}

Description

Writes to a text file using the contents of a passed string.

Access

Public

Syntax

instancename.**of_FileWrite** (*filename*, *text* {, *append* })

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file to be written. If *filename* does not specify a fully qualified path, the function works relative to the current directory
text	String from which the function copies to *filename*
append (optional)	Boolean specifying whether to append to (TRUE) or overwrite (FALSE) *filename*. The default is TRUE

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

Syntax 2 To write from a string

This example calls the of_FileWrite function (it assumes an inv_filesrv instance variable):

```
String    ls_file

... // Logic to populate ls_file
IF inv_filesrv.of_FileWrite &
        (sle_filename.text, ls_file, FALSE) = -1 THEN
       MessageBox("Write Error", &
          "Error writing file")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_GetAltFilename function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2798')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetAltFilename** (*filename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_GetAltFilename function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetAltFilename function

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_GetCreationDate function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2800')}

Description

Retrieves the date the file was created.

Access

Public

Syntax

instancename.**of_GetCreationDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose creation date is to be returned. If *filename* does not specify a fully qualified path, the function works relative to the current directory
date	Date variable into which the function places the date *filename* was created (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if a problem occurs.

Usage

This function calls the of_GetCreationDateTime function.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetCreationDate function (n_cst_filesrv)

This example calls the of_GetCreationDate function (it assumes an inv_filesrv instance variable):

```
Date    ldt_date


inv_filesrv.of_GetCreationDate &
        (sle_filename.Text, ldt_date)
MessageBox("Creation Date", &
        "Creation date: " + String(ldt_date) )
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetCreationDateTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2802')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetCreationDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
date	Date
time	Time

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_GetCreationDateTime function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetCreationDateTime function

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_GetCreationTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2804')}

Description

Retrieves the time the file was created.

Access

Public

Syntax

instancename.**of_GetCreationTime** (*filename*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose creation time is to be returned. If *filename* does not specify a fully qualified path, the function works relative to the current directory
time	Time variable into which the function places the time *filename* was created (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if a problem occurs.

Usage

This function calls the of_GetCreationDateTime function.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_GetCreationTime function (n_cst_filesrv)

This example calls the of_GetCreationTime function (it assumes an inv_filesrv instance variable):

```
Time    lt_time


inv_filesrv.of_GetCreationTime &
        (sle_filename.Text, lt_time)
MessageBox("Creation Time", &
        "Creation time: " + String(lt_time) )
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_GetCurrentDirectory function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2806')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetCurrentDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_filesrv

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_GetCurrentDirectory function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetCurrentDirectory function

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetDiskSpace function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2808')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetDiskSpace** (*drive*, *total*, *free*)

instancename.**of_GetDiskSpaceEx** (*drive*, *total*, *free*)

Argument	Description
instancename	Instance name of n_cst_filesrv
drive	Character
total	Long (of_GetDiskSpace syntax) or decimal (of_GetDiskSpaceEx syntax)
free	Long (of_GetDiskSpace syntax) or decimal (of_GetDiskSpaceEx syntax)

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetDiskSpace function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetDiskSpace function

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetDriveType function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2810')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetDriveType** (*drive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
drive	Character

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_GetDriveType function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetDriveType function

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetFileAttributes function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2812')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetFileAttributes** (*filename*, *readonly*, *hidden*, *system*, *subdirectory*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
readonly	Boolean
hidden	Boolean
system	Boolean
subdirectory	Boolean
archive	Boolean

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_GetFileAttributes function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetFileAttributes function

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_GetFileSize function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2814')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetFileSize** (*filename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String

Return value

Double. Always returns -1.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetFileSize function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetFileSize function

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetLastAccessDate function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2816')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetLastAccessDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose last access date is to be returned. If *filename* does not specify a fully qualified path, the function works relative to the current directory
date	Date variable into which the function places the date *filename* last accessed (passed by reference)

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetLastAccessDate function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetLastAccessDate function

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetLastWriteDate function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2818')}

Description

Retrieves the date the file was last modified.

Access

Public

Syntax

instancename.**of_GetLastWriteDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose last write date is to be returned. If *filename* does not specify a fully qualified path, the function works relative to the current directory
date	Date variable into which the function places the date *filename* last modified (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if a problem occurs.

Usage

This function calls the of_GetLastWriteDateTime function.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetLastWriteDate function (n_cst_filesrv)

This example calls the of_GetLastWriteDate function (it assumes an inv_filesrv instance variable):

```
Date    ldt_date


inv_filesrv.of_GetLastWriteDate &
        (sle_filename.Text, ldt_date)
MessageBox("Last Write Date", &
        "Last write date: " + String(ldt_date) )
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetLastWriteDateTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2820')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetLastWriteDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
date	Date
time	Time

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetLastWriteDateTime function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetLastWriteDateTime function

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_GetLastWriteTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2822')}

Description

Retrieves the time the file was last modified.

Access

Public

Syntax

instancename.**of_GetLastWriteTime** (*filename*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose last write date is to be returned. If *filename* does not specify a fully qualified path, the function works relative to the current directory
time	Time variable into which the function place the time *filename* last modified

(passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the of_GetLastWriteDateTime function.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetLastWriteTime function (n_cst_filesrv)

This example calls the of_GetLastWriteTime function (it assumes an inv_filesrv instance variable):

```
Time    lt_time


inv_filesrv.of_GetLastWriteTime &
        (sle_filename.Text, lt_time)
MessageBox("Last Write Time", &
        "Last write time: " + String(lt_time) )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_GetLongFilename function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2824')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_GetLongFilename** (*filename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_GetLongFilename function (n_cst_filesrv)

n_cst_filesrvwin32 of_GetLongFilename function

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_GetSeparator function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2826')}

Description

Retrieves the directory separator character.

Access

Public

Syntax

instancename.**of_GetSeparator** ( )

Argument	Description
instancename	Instance name of n_cst_filesrv

Return value

String. Returns the is_separator instance variable.

Usage

N_cst_filesrv descendants can call this function to create fully qualified pathnames.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_GetSeparator function (n_cst_filesrv)

This example calls the of_GetSeparator function:

```
String    is_separator


is_separator = inv_filesrv.of_GetSeparator( )
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_IncludeFile function (n_cst_filesrv)

```
{button Object,JI(`>main',`cdecigag')} {button
Examples,JI(`>Examples',`id_pfcoref_2828')}
```

Description

Called by the of_DirList function to report whether a file contains the specified attribute settings.

Access

Protected

Syntax

instancename.**of_IncludeFile** (*filename*, *attributemask*, *fileattrib*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file to be accessed. If *filename* does not specify a fully qualified path, the function works relative to the current directory

attributemask	Long containing the bit string that determines whether *filename* is included by of_DirList
fileattrib	UnsignedLong containing the file's attribute bits

Return value

Boolean. Returns TRUE if *filename* should be included and FALSE if it should not.

Usage

The of_DirList function calls this function to determine whether to include the file in its list of files.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_IncludeFile function (n_cst_filesrv)

This example is from the of_DirList function:

```
...

DO WHILE li_RC = 0
        lui_Attrib = Asc(lstr_FindData.c_Attrib)

        // Determine if this file should be included.
        IF of_IncludeFile(String(lstr_FindData.c_Name), &
       al_FileType, lui_Attrib) THEN
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_ParsePath function (n_cst_filesrv)

```
{button Object,JI(`>main',`cdecigag')} {button
Examples,JI(`>Examples',`id_pfcoref_2830')}
```

Description

Separates a fully qualified filename into its component parts.

Access

Public

Syntax

instancename.**of_ParsePath** (*path*, *drive*, *directorypath*, *filename* {, *extension* })

Argument	Description
instancename	Instance name of n_cst_filesrv
path	String specifying the fully qualified filename
drive	String into which the function places the drive specification, including the colon and backslash (if specified in *fullname*) (passed by reference)
directorypath	String into which the function places the directory path (passed by reference)
filename	String into which the function places the filename without the extension (passed by reference)
extension (optional)	String into which the function places the extension (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_ParsePath function (n_cst_filesrv)

This example calls the of_ParsePath function (it assumes an inv_filesrv instance variable):

```
String    ls_drive, ls_path, ls_filename

String    ls_extension

inv_filesrv.of_ParsePath &
        (sle_fullpath.Text, ls_drive, ls_path, &
               ls_filename, ls_extension)
sle_filename.Text = ls_filename + "." + ls_extension
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_RemoveDirectory function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2832')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_RemoveDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_RemoveDirectory function (n_cst_filesrv)

n_cst_filesrvwin32 of_RemoveDirectory function

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_SetCreationDateTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2834')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_SetCreationDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
date	Date
time	Time

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetCreationDateTime function (n_cst_filesrv)

n_cst_filesrvwin32 of_SetCreationDateTime function

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetFileArchive function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2836')}

Description

Calls the of_SetFileAttributes function to set a file's archive attribute.

Access

Public

Syntax

instancename.**of_SetFileArchive** (*filename*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose archive attribute is to be set. If *filename* does not specify a fully qualified path, the function works relative to the current directory
archive	Boolean specifying whether to turn the archive bit on (TRUE) or off (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetFileArchive function (n_cst_filesrv)

This example calls the of_SetFileArchive function (it assumes an inv_filesrv instance variable):

```
inv_filesrv.of_SetFileArchive &

        (sle_filename.Text, cbx_archive.Checked)
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetFileAttributes function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(``,`id_pfcoref_2838')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_SetFileAttributes** (*filename*, *readonly*, *hidden*, *system*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
readonly	Boolean
hidden	Boolean
system	Boolean
archive	Boolean

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_SetFileAttributes function (n_cst_filesrv)

n_cst_filesrvwin32 of_SetFileAttributes function

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_SetFileHidden function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2840')}

Description

Calls the of_SetFileAttributes function to set a file's hidden attribute.

Access

Public

Syntax

instancename.**of_SetFileHidden** (*filename*, *hidden*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose hidden attribute is to be set. If *filename* does not specify a fully qualified path, the function works relative to the current directory
hidden	Boolean specifying whether to make the file hidden (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetFileHidden function (n_cst_filesrv)

This example calls the of_SetFileHidden function (it assumes an inv_filesrv instance variable):

```
inv_filesrv.of_SetFileHidden &

        (sle_filename.Text, cbx_hidden.Checked)
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_SetFileReadonly function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2842')}

Description

Calls the of_SetFileAttributes function to set a file's read-only attribute.

Access

Public

Syntax

instancename.**of_SetFileReadonly** (*filename*, *readonly*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose read-only attribute is to be set. If *filename* does not specify a fully qualified path, the function works relative to the current directory

readonly	Boolean specifying whether to make the file read-only (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetFileReadonly function (n_cst_filesrv)

This example calls the of_SetFileReadonly function (it assumes an inv_filesrv instance variable):

```
inv_filesrv.of_SetFileReadonly &

        (sle_filename.Text, cbx_readonly.Checked)
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetFileSystem function (n_cst_filesrv)

```
{button Object,JI(`>main',`cdecigag')} {button
Examples,JI(`>Examples',`id_pfcoref_2844')}
```

Description

Calls the of_SetFileAttributes function to set a file's system attribute.

Access

Public

Syntax

instancename.**of_SetFileSystem** (*filename*, *system*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the name of the file whose system attribute is to be set. If *filename* does not specify a fully qualified path, the function works relative to the current directory
system	Boolean specifying whether to set the file's system attribute (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_SetFileSystem function (n_cst_filesrv)

This example calls the of_SetFileSystem function (it assumes an inv_filesrv instance variable):

```
inv_filesrv.of_SetFileSystem &

        (sle_filename.Text, cbx_system.Checked)
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_SetLastAccessDate function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2846')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_SetLastAccessDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
date	Date

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetLastAccessDate function (n_cst_filesrv)

n_cst_filesrvwin32 of_SetLastAccessDate function

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetLastWriteDateTime function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2848')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_filesrv for use with all n_cst_filesrv descendants.

Access

Public

Syntax

instancename.**of_SetLastWriteDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String
date	Date
time	Time

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_SetLastWriteDateTime function (n_cst_filesrv)

n_cst_filesrvwin32 of_SetLastWriteDateTime function

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SortDirList function (n_cst_filesrv)

{button Object,JI(`>main',`cdecigag')} {button Examples,JI(`>Examples',`id_pfcoref_2850')}

Description

Sorts the directory list output from the of_DirList function.

Access

Public

Syntax

instancename.**of_SortDirList** (*dirlist*, *sorttype* {, *ascending* })

Argument	Description
instancename	Instance name of n_cst_filesrv
dirlist	Array of type n_cst_dirattrib containing the output from the of_DirList function (passed by reference)
sorttype	Integer specifying how to sort *dirlist*: • 1 By filename • 2 By extension • 3 By last write date/time • 4 By filesize
ascending (optional)	Boolean indicating whether the sort direction is ascending (TRUE) or descending (FALSE). The default is TRUE

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_DirList function calls this function to sort the *dirlist* array.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SortDirList function (n_cst_filesrv)

This example calls the of_SortDirList function:

```
String     ls_currdir
```

```
Integer   li_cnt, li_entries
String    ls_import
n_cst_dirlistattrib lnv_dirlist[ ]

SetPointer(HourGlass!)
ls_currdir = "c:\Win95"

li_entries = &
        inv_filesrv.of_DirList &
               (ls_currdir, 0, lnv_dirlist)
...
inv_filesrv.of_SortDirList(lnv_dirlist, 1, TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

n_cst_filesrvwin32

```
{button Ancestor,JI(`>main',`cdecigag')} {button See also,PI(`',`id_pfcoref_2852')}
{button Functions,JI(`>list_win',`id_pfcoref_2855')} {button
Events,JI(`>list_win',`id_pfcoref_2853')}
```

Description

Platform-specific file management functions for applications running under Windows. Platform-specific file management functions require a call to a platform-specific external function. When you call the f_SetFilesrv global function, it detects the operating environment and instantiates the correct platform-specific object.

Many of the functions in this object call platform-specific external functions. To see a complete list of platform-specific external functions used by this object, access the User Object painter and select Declare>Local External Functions from the menu bar. This object calls functions in the KERNEL32.DLL module.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dirattrib

n_cst_numerical

Usage

To use the file management service:

1. Instantiate the appropriate file management object by calling the f_SetFilesrv global function. This function examines your environment and instantiates the appropriate user object.
2. Call file management functions as required. The code for these functions is defined in the descendant objects. If the function isn't available on your platform, PowerBuilder executes the ancestor (n_cst_filesrv) function, which, depending on the function, returns an empty string, TRUE, -

1, 0, or NULL.

Structure	Field	Data type
os_filedatetime	ul_highdatetime	UnsignedLong
	ul_lowdatetime	UnsignedLong
os_systemtime	ui_wday	UnsignedInteger
	ui_wdayofweek	UnsignedInteger
	ui_whour	UnsignedInteger
	ui_wmilliseconds	UnsignedInteger
	ui_wminute	UnsignedInteger
	ui_wmonth	UnsignedInteger
	ui_wsecond	UnsignedInteger
	ui_wyear	UnsignedInteger
os_securityattributes	b_inherit	Boolean
	ch_description	Character
	ul_length	UnsignedLong
os_finddata	ch_alternatefilename[14]	Character
	ch_filename[260]	Character
	str_creationtime	os_filedatetime
	str_lastaccesstime	os_filedatetime
	str_lastwritetime	os_filedatetime
	ul_fileattributes	UnsignedLong
	ul_filesizehigh	UnsignedLong
	ul_filesizelow	UnsignedLong
	ul_reserved0	UnsignedLong
	ul_reserved1	UnsignedLong
os_fileopeninfo	c_fixed_disk	Character
	c_length	Character
	c_pathname[128]	Character
	ui_dos_error	UnsignedInteger
	ui_na1	UnsignedInteger
	ui_na2	UnsignedInteger

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

n_cst_filesrvwin32

f_SetFilesrv

n_cst_filesrv

n_cst_platform

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

n_cst_filesrvwin32

{button Functions,JI(`>list_win',`id_pfcoref_2855')}

Constructor event

N_cst_filesrvwin32 contains a precoded event:

Constructor

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

Constructor event (n_cst_filesrvwin32)

{button Object,JI(`>main',`cfhbbaib')}

Description

Initializes the is_separator and is_allfiles instance variables.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

n_cst_filesrvwin32

{button Events,JI(`>list_win',`id_pfcoref_2853')}

of_ChangeDirectory function

of_ConvertFileDateTimeToPB function

of_ConvertPBDateTimeToFile function

of_CreateDirectory function

of_DirectoryExists function

of_DirList function

of_FileRename function

of_GetAltFilename function

of_GetCreationDateTime function

of_GetCurrentDirectory function

of_GetDiskSpace function

of_GetDriveType function

of_GetFileAttributes function

of_GetFileSize function

of_GetLastAccessDate function

of_GetLastWriteDateTime function

of_GetLongFilename function

of_RemoveDirectory function

of_SetCreationDateTime function

of_SetFileAttributes function

of_SetLastAccessDate function

of_SetLastWriteDateTime function

N_cst_filesrvwin32 includes precoded object functions:

of_ChangeDirectory
of_ConvertFileDateTimeToPB
of_ConvertPBDateTimeToFile
of_GetDriveType
of_GetFileAttributes
of_GetFileSize

of_CreateDirectory
of_DirectoryExists
of_DirList
of_FileRename
of_GetAltFilename
of_GetCreationDateTime
of_GetCurrentDirectory
of_GetDiskSpace
of_GetLastAccessDate
of_GetLastWriteDateTime
of_GetLongFilename
of_RemoveDirectory
of_SetCreationDateTime
of_SetFileAttributes
of_SetLastAccessDate
of_SetLastWriteDateTime

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_ChangeDirectory function (n_cst_filesrvwin32)

{button Object,JI(`>main',`cfhbbaib')} {button Examples,JI(`>Examples',`id_pfcoref_2857')}

Description

Changes the current working directory.

Access

Public

Syntax

instancename.**of_ChangeDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String specifying the name of the new working directory. If you do not specify an absolute path, this function changes directories relative to the current working directory

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If your application performs functions that change the working directory, call this function before path-sensitive PowerBuilder functions, such as ShowHelp, to ensure access to the proper files. This enables your applications to work without depending on the system path.

This function calls the SetCurrentDirectory external function.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_ChangeDirectory function (n_cst_filesrvwin32)

This example changes directory to the \realapp directory before calling the SetProfileString function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String  ls_language

ls_language = sle_curr_language.Text
li_return = inv_filesrv.of_ChangeDirectory &
```

```
        ("\realapp")
IF li_return = 1 THEN
        SetProfileString("realapp.ini", "language", &
               "currentlanguage", ls_language)
END IF
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_ConvertFileDateTimeToPB function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2859')}
```

Description

Converts a file date (UnsignedInteger) into a PowerBuilder date.

Access

Protected

Syntax

instancename.**of_ConvertFileDateTimeToPB** (*filedatetime*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filedatetime	Structure of type os_filedatetime containing a file's system date and time
date	Date variable into which the function places the date (passed by reference)
time	Time variable into which the function places the time (passed by reference)

Return value

Date. Returns *date* and *time* in PowerBuilder format.

Usage

Internal.

This function calls the FileTimeToLocalFileTime and FileTimeToSystemTime external functions.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_ConvertFileDateTimeToPB function (n_cst_filesrvwin32)

This example is from the of_DirList function:

```
os_finddata    lstr_FindData


...
of_ConvertFileDateTimeToPB &
        (lstr_FindData.str_CreationTime, &
               anv_DirList[li_Entries].id_CreationDate, &
                   anv_DirList[li_Entries].it_CreationTime)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_ConvertPBDateTimeToFile function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2861')}
```

Description

Converts a PowerBuilder date and time to a system date and time.

Access

Protected

Syntax

instancename.**of_ConvertPBDateTimeToFile** (*date*, *time*, *datetime*)

Argument	Description
instancename	Instance name of n_cst_filesrv
date	Date variable containing a date to be converted
time	Time variable containing a time to be converted
datetime	Structure of type of_filedatetime into which the function places the converted system date and time (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

This function calls the SystemTimeToFileTime and LocalFileTimeToFileTime external functions.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_ConvertPBDateTimeToFile function (n_cst_filesrvwin32)

This example is from the of_SetLastWriteDateTime function:

```
Boolean  lb_Ret

Long   ll_Error, ll_Handle
os_filedatetime  lstr_FileTime, lstr_Empty
os_finddata   lstr_FindData
os_fileopeninfo   lstr_FileInfo

ll_Handle = FindFirstFileA(as_FileName, lstr_FindData)
IF ll_Handle <= 0 THEN Return -1
        FindClose(ll_Handle)

IF of_ConvertPBDatetimeToFile &
        (ad_Date, at_Time, lstr_FileTime) < 0 THEN
       Return 1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_CreateDirectory function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2863')}
```

Description

Creates a new directory.

Access

Public

Syntax

instancename.**of_CreateDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String specifying the name of the new directory. If you do not specify an absolute path, this function creates a directory relative to the current working directory

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the CreateDirectoryA external function.

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_CreateDirectory function (n_cst_filesrvwin32)

This example calls the of_CreateDirectory function (this example assumes an inv_filesrv instance variable):

```
IF inv_filesrv.of_CreateDirectory &

        ("temp") <> 0 THEN
       MessageBox("File Services", &
                 "Error creating temp directory")
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_DirectoryExists function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2865')}
```

Description

Reports whether the specified directory exists.

Access

Public

Syntax

instancename.**of_DirectoryExists** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
directoryname	String specifying the name of the directory. If you do not specify an absolute path, this function looks for a directory relative to the current working directory

Return value

Boolean. Returns TRUE if the directory exists and FALSE if it does not.

Usage

This function calls the GetFileAttributesA external function.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_DirectoryExists function (n_cst_filesrvwin32)

This example calls the of_DirectoryExists function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return


IF NOT inv_filesrv.of_DirectoryExists &
        ("c:\rkndoc\temp") THEN
          li_return = inv_filesrv.of_CreateDirectory &
                ("c:\rkndoc\temp")
END IF
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_DirList function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2867')}
```

Description

Retrieves information on all files within the passed directory that match the passed arguments.

Access

Public

Syntax

instancename.**of_DirList** (*filespec*, *filetype*, *dirlist*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filespec	String specifying the path and file specification (including wildcards) to the directory containing the files to be listed. If you do not specify an absolute path, this function searches relative to the current working directory
filetype	Long specifying one or more types of files to return. Types are: • 0—Read/write files • 1—Read-only files • 2—Hidden files • 4—System files • 16—Subdirectories • 32—Archive (modified) files

	• 16384—Drives • 32768—Exclude read/write files from the list
dirlist	Array of type n_cst_dirattrib into which the function places information for the requested files (passed by reference)

Return value

Long. Returns the number of elements in the *dirlist* array if the function succeeds and -1 if an error occurs.

Usage

To further sort the *dirlist* array, use the of_SortDirList function.

To list several types, add the *filetype* values together. For example, to list read/write files, subdirectories, and drives, specify 0+16+16384 or 16400 for *filetype*.

This function calls the FindNextFileA external function.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_DirList function (n_cst_filesrvwin32)

This example calls the of_DirList function (this example assumes an inv_filesrv instance variable):

```
String   ls_currdir


Integer  li_cnt, li_entries
String   ls_import
n_cst_dirattrib   lnv_dirlist[]

SetPointer(HourGlass!)
ls_currdir = "c:\Win95\*.dll"

li_entries = &
        inv_filesrv.of_DirList &
               (ls_currdir, 0, lnv_dirlist)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_FileRename function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2869')}
```

Description

Renames or moves a file or directory.

Access

Public

Syntax

instancename.**of_FileRename** (*oldname*, *newname*)

Argument	Description
instancename	Instance name of n_cst_filesrv
oldname	String specifying the complete path of the file to be renamed

newname	String specifying the complete path of the new filename

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the MoveFileA external function.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_FileRename function (n_cst_filesrvwin32)

This example calls the of_FileRename function:

```
String   ls_source, ls_target

Integer  li_return

ls_source = sle_source.text
ls_target = sle_target.text
li_return = inv_filesrv.of_FileRename &
        (ls_source, ls_target)
IF li_return = 1 THEN
        gnv_app.of_GetFrame().SetMicroHelp &
           (ls_source + " renamed to " + ls_target)
ELSE
        MessageBox("File Service", &
               "Error renaming " + ls_source + " to " &
                      + ls_target)
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetAltFilename function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2871')}
```

Description

Retrieves the internal 8.3 alternate filename for a passed long filename.

Access

Public

Syntax

instancename.**of_GetAltFilename** (*longfilename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
longfilename	String specifying the long filename

Return value

String. Returns the alternate filename for *longfilename*.

Usage

This function calls the FindFirstFileA and FindClose external functions.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetAltFilename function (n_cst_filesrvwin32)

This example calls the of_GetAltFilename function (this example assumes an inv_filesrv instance variable):

```
String   ls_filename, ls_return


ls_filename = sle_source.text
ls_return = inv_filesrv.of_GetAltFilename &
        (ls_filename)
IF ls_return = "" THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_return &
               + " is the alternate filename for " &
                   + ls_filename)
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_GetCreationDateTime function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2873')}
```

Description

Retrieves the date and time a file was created.

Access

Public

Syntax

instancename.**of_GetCreationDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose creation date and time are to be returned. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date into which the function places the creation date (passed by reference)
time	Time into which the function places the creation time (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetCreationDateTime function (n_cst_filesrvwin32)

This example calls the of_GetCreationDateTime function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename
Date     ldt_date
Time     lt_time

ls_filename = sle_source.text
li_return = inv_filesrv.of_GetCreationDateTime &
        (ls_filename, ldt_date, lt_time)
IF li_return = -1 THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + "~r~nCreation date: " &
               + String(ldt_date) &
               + "~r~nCreation time: " &
               + String(lt_time) )
END IF
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetCurrentDirectory function (n_cst_filesrvwin32)

{button Object,JI(`>main',`cfhbbaib')} {button Examples,JI(`>Examples',`id_pfcoref_2875')}

Description

Retrieves the current working directory.

Access

Public

Syntax

instancename.**of_GetCurrentDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_filesrv

Return value

String. Returns the fully qualified path of the current working directory.

Usage

This function calls the GetCurrentDirectoryA external function.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetCurrentDirectory function (n_cst_filesrvwin32)

This example calls the of_GetCurrentDirectory function and, if the result isn't equal to the is_app_dir instance variable, calls the of_ChangeDirectory function to reset the working directory (this example assumes an inv_filesrv instance variable):

```
String   ls_return
```

```
ls_return = inv_filesrv.of_GetCurrentDirectory()
IF ls_return <> is_app_dir THEN
        inv_filesrv.of_ChangeDirectory(is_app_dir)
END IF
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetDiskSpace function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2877')}
```

Description

Retrieves space information for a specified disk drive.

Access

Public

Syntax

instancename.**of_GetDiskSpace** (*drive*, *total*, *free*)

instancename.**of_GetDiskSpaceEx** (*drive*, *total*, *free*)

Argument	Description
instancename	Instance name of n_cst_filesrv
drive	Character specifying the drive letter
total	Long (of_GetDiskSpace syntax) or decimal (of_GetDiskSpaceEx syntax) into which the function returns the total bytes on *drive*, passed by reference
free	Long (of_GetDiskSpace syntax) or decimal (of_GetDiskSpaceEx syntax) into which the function returns the free space on *drive*, passed by reference

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the GetDiskFreeSpaceA external function.

It is best to use the of_GetDiskSpaceEx syntax. The of_GetDiskSpace syntax is supported but obsolete. It returns a negative number when the calculated amount of free disk space exceeds 2 gigabytes.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetDiskSpace function (n_cst_filesrvwin32)

This example calls the of_GetDiskSpace function:

```
Character   lc_drive

Decimal ldec_total, ldec_free
Integer   li_return

lc_drive = lb_drive.SelectedItem()
li_return = inv_filesrv.of_GetDiskSpaceEx &
        (lc_drive, ldec_total, ldec_free)
IF li_return = 1 THEN
        MessageBox("File Service", "Drive " + lc_drive &
        + "~r~n" +String(ldec_total)+" total bytes~r~n" &
```

```
        + String(ldec_free) + " total free space")
ELSE
         MessageBox("File Service", &
        "Error in of_GetDiskSpace")
END IF
```

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_GetDriveType function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2879')}
```

Description

Retrieves the drive type for a specified drive.

Access

Public

Syntax

instancename.**of_GetDriveType** (*drive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
drive	Character specifying the drive letter

Return value

Integer. Returns values as follows:

0 Undetermined drive type

1 Root directory does not exist

2 Removable disk

3 Nonremovable disk

4 Remote (network) drive

5 CD-ROM drive

6 RAM disk

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetDriveType function (n_cst_filesrvwin32)

This example calls the of_GetDriveType function (this example assumes an inv_filesrv instance variable):

```
UnsignedInteger  lui_drivetype

String   ls_driveletter
String    ls_drivetype[ ] = &
        {"Undetermined","Does not exist","Removeable", &
               "Nonremoveable", "Network drive", "CD-ROM", &
                  "RAM disk" }

ls_driveletter = lb_drivelist.SelectedItem()
lui_drivetype = inv_filesrv.of_GetDriveType &
        (ls_driveletter)
```

```
MessageBox("File Service", "Drive type is: " &
        + ls_drivetype[lui_drivetype + 1] )
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetFileAttributes function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2881')}
```

Description

Retrieves all attributes for a specified file.

Access

Public

Syntax

instancename.**of_GetFileAttributes** (*filename*, *readonly*, *hidden*, *system*, *subdirectory*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose attributes are to be returned. If you do not specify an absolute path, this function searches relative to the current working directory
readonly	Boolean indicating whether *filename* is read-only (passed by reference)
hidden	Boolean indicating whether *filename* is hidden (passed by reference)
system	Boolean indicating whether *filename* is a system file (passed by reference)
subdirectory	Boolean indicating whether *filename* is a subdirectory (passed by reference)
archive	Boolean indicating whether *filename* has the archive bit set (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_GetFileAttributes function (n_cst_filesrvwin32)

This example calls the of_GetFileAttributes function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename

ls_filename = sle_source.text
li_return = inv_filesrv.of_GetFileAttributes &
        (ls_filename, cbx_readonly.Checked, &
               cbx_hidden.Checked, &
               cbx_system.Checked, &
               cbx_subdirectory.Checked, &
               cbx_archive.Checked)
IF li_return = -1 THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
END IF
```

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

of_GetFileSize function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2883')}
```

Description

Retrieves the size of a specified file.

Access

Public

Syntax

instancename.**of_GetFileSize** (*filename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose size is to be returned. If you do not specify an absolute path, this function searches relative to the current working directory

Return value

Double. Returns the number of bytes in *filename* if the function succeeds and -1 if an error occurs.

Usage

This function calls the Findfirst and FindClose external functions.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetFileSize function (n_cst_filesrvwin32)

This example calls the of_GetFileSize function (this example assumes an inv_filesrv instance variable):

```
Double   ld_return

String   ls_filename

ls_filename = sle_source.text
ld_return = &
        inv_filesrv.of_GetFileSize(ls_filename)
IF ld_return = -1 THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a size of " + String(ld_return) &
               + " bytes.")
END IF
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetLastAccessDate function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2885')}
```

Description

Retrieves the date a file was last accessed.

Access

Public

Syntax

instancename.**of_GetLastAccessDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose last access date is to be returned. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date into which the function places the last access date (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetLastAccessDate function (n_cst_filesrvwin32)

This example calls the of_GetLastAccessDate function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename
Date   ldt_date

ls_filename = sle_source.text
li_return = inv_filesrv.of_GetLastAccessDate &
        (ls_filename, ldt_date)
IF li_return = -1 THEN
        MessageBox("File Service", &
       "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a last access date of " &
               + String(ldt_date) )
END IF
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_GetLastWriteDateTime function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2887')}
```

Description

Retrieves the date and time a file was last modified.

Access

Public

Syntax

instancename.**of_GetLastWriteDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose last write date and time are to be returned. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date into which the function places the last write date (passed by reference)
time	Time into which the function places the last write time (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_GetLastWriteDateTime function (n_cst_filesrvwin32)

This example calls the of_GetLastWriteDateTime function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename
Date   ldt_date
Time   lt_time

ls_filename = sle_source.text
li_return = inv_filesrv.of_GetLastWriteDateTime &
        (ls_filename, ldt_date, lt_time)
IF li_return = -1 THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a last write date of " &
               + String(ldt_date) &
               + " and a last write time of &
               " + String(lt_time) )
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_GetLongFilename function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2889')}
```

Description

Retrieves the corresponding long filename for a passed internal 8.3 (also called alternate) filename.

Access

Public

Syntax

instancename.**of_GetLongFilename** (*shortfilename*)

Argument	Description
instancename	Instance name of n_cst_filesrv
shortfilename	String specifying the short (alternate) filename

Return value

String. Returns the long filename for *shortfilename*.

Usage

This function calls the FindFirstFileA and FindClose external functions.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetLongFilename function (n_cst_filesrvwin32)

This example calls the of_GetLongFilename function (this example assumes an inv_filesrv instance variable):

```
String   ls_filename, ls_return


ls_filename = sle_source.text
ls_return = inv_filesrv.of_GetLongFilename &
        (ls_filename)
IF ls_return = "" THEN
        MessageBox("File Service", &
               "Error accessing " + ls_filename)
ELSE
        MessageBox("File Service", ls_return &
               + " is the long filename for " &
               + ls_filename)
END IF
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_RemoveDirectory function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2891')}
```

Description

Deletes the specified directory (the directory must be empty). To delete a directory and its files, call of_DelTree instead.

Access

Public

Syntax

instancename.**of_RemoveDirectory** (*directoryname*)

Argument	Description
instancename	Instance name of n_cst_filesrvwin
directoryname	String specifying the path to the directory to be deleted. If you do not specify an absolute path, this function deletes relative to the current working

directory

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the RemoveDirectoryA external function.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_RemoveDirectory function (n_cst_filesrvwin32)

This example checks if pbapp is the current directory and, if it is, deletes the pbapp\temp directory (this example assumes an inv_filesrv instance variable):

```
String   ls_return, ls_temp

Integer  li_return

ls_temp = "temp"
ls_return = &
        gnv_app.inv_platform.of_GetCurrentDirectory( )
IF Mid(ls_return, 4, 5) = "pbapp" THEN
        li_return = inv_filesrv.of_RemoveDirectory &
               (ls_temp)
        IF li_return = 1 THEN
               MessageBox("Delete", &
                      "Temp dir does not exist")
        ELSEIF li_return <0 THEN
               MessageBox("Delete", &
                      "Deletion error: Temp dir must be empty")
        END IF
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetCreationDateTime function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2893')}
```

Description

Sets a file's creation date and time.

Access

Public

Syntax

instancename.**of_SetCreationDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose creation date and time are to be modified. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date variable containing the new creation date
time	Time variable containing the new creation time

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetCreationDateTime function (n_cst_filesrvwin32)

This example calls the of_SetCreationDateTime function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename
Date   ldt_date
Time   lt_time

ls_filename = sle_source.text
ldt_date = Today()
lt_time = Now()
li_return = inv_filesrv.of_SetCreationDateTime &
        (ls_filename, ldt_date, lt_time)
IF li_return = -1 THEN
        MessageBox("File Service", &
             "Error modifying " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a new creation date of " &
               + String(ldt_date) &
               + " and a new creation time of " &
               + String(lt_time) )
END IF
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetFileAttributes function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2895')}
```

Description

Sets attributes for the specified file.

Access

Public

Syntax

instancename.**of_SetFileAttributes** (*filename*, *readonly*, *hidden*, *system*, *archive*)

Argument	Description
instancename	Instance name of n_cst_filesrvwin32
filename	String specifying the file whose attributes are to be set. If you do not specify an absolute path, this function searches relative to the current working directory
readonly	Boolean indicating whether *filename* is read-only. If you specify NULL, the function doesn't modify this attribute
hidden	Boolean indicating whether *filename* is hidden. If you specify NULL, the function doesn't modify this attribute

system	Boolean indicating whether *filename* is a system file. If you specify NULL, the function doesn't modify this attribute
archive	Boolean indicating whether *filename* has the archive bit set. If you specify NULL, the function doesn't modify this attribute

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_SetFileAttributes function (n_cst_filesrvwin32)

This example calls the of_SetFileAttributes function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename

ls_filename = sle_source.text
li_return = inv_filesrv.of_SetFileAttributes &
        (ls_filename, cbx_readonly.Checked, &
               cbx_hidden.Checked, &
               cbx_system.Checked, &
               cbx_archive.Checked)
IF li_return = -1 THEN
        MessageBox("File Service", &
              "Error accessing " + ls_filename)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetLastAccessDate function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2897')}
```

Description

Sets a file's last-accessed date and time.

Access

Public

Syntax

instancename.**of_SetLastAccessDate** (*filename*, *date*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose last access date is to be modified. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date variable containing the new last-accessed date

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation:

The Benefits of a Help Authoring Tool

of_SetLastAccessDate function (n_cst_filesrvwin32)

This example calls the of_SetLastAccessDate function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return

String   ls_filename
Date   ldt_date

ls_filename = sle_source.text
ldt_date = Today()
li_return = inv_filesrv.of_SetLastAccessDate &
        (ls_filename, ldt_date)
IF li_return = -1 THEN
        MessageBox("File Service", &
               "Error modifying " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a new last access date of " &
               + String(ldt_date))
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_SetLastWriteDateTime function (n_cst_filesrvwin32)

```
{button Object,JI(`>main',`cfhbbaib')} {button
Examples,JI(`>Examples',`id_pfcoref_2899')}
```

Description

Sets a file's last-modified date and time.

Access

Public

Syntax

instancename.**of_SetLastWriteDateTime** (*filename*, *date*, *time*)

Argument	Description
instancename	Instance name of n_cst_filesrv
filename	String specifying the file whose last write date and time are to be modified. If you do not specify an absolute path, this function searches relative to the current working directory
date	Date variable containing the new last-modified date
time	Time variable containing the new last-modified time

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_SetLastWriteDateTime function (n_cst_filesrvwin32)

This example calls the of_SetLastWriteDateTime function (this example assumes an inv_filesrv instance variable):

```
Integer  li_return


String   ls_filename
Date  ldt_date
Time  lt_time

ls_filename = sle_source.text
ldt_date = Today()
lt_time = Now()
li_return = inv_filesrv.of_SetLastWriteDateTime &
        (ls_filename, ldt_date, lt_time)
IF li_return = -1 THEN
        MessageBox("File Service", &
               "Error modifying " + ls_filename)
ELSE
        MessageBox("File Service", ls_filename &
               + " has a new last write date of " &
               + String(ldt_date) &
               + " and a new last write time of " &
               + String(lt_time) )
END IF
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

n_cst_inifile

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_2901')}
{button Functions,JI(`>list_win',`id_pfcoref_2904')} {button
Events,JI(`>list_win',`id_pfcoref_2902')}
```

Description

INI file service. Provides functions to access and update INI files.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_filesrv

n_cst_string

Usage To use this object:

1 Define an instance variable for n_cst_inifile. For MDI applications, this might be a frame-level instance variable (inv_ini_handler in this example), created in the frame window's Open event:

```
n_cst_inifile  inv_ini_handler
```

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements.

2 Use n_cst_inifile object functions as needed:

- Use of_GetKeys to retrieve all keys for a specific section
- Use of_GetSections to retrieve all section names in the INI file
- Use of_Delete to remove an entire section from the INI file

Using ProfileInt, ProfileString, and SetProfileString Use the ProfileInt, ProfileString, and SetProfileString PowerScript functions to access INI file entries one at a time.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

n_cst_inifile

n_cst_string

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

n_cst_inifile

{button Functions,JI(`>list_win',`id_pfcoref_2904')}

Constructor event

N_cst_inifile contains a precoded event:

Constructor

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

Constructor event (n_cst_inifile)

{button Object,JI(`>main',`ccjbejja')}

Description

Initializes the is_lineend instance variable with the platform-specific line end character or characters.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

n_cst_inifile

{button Events,JI(`>list_win',`id_pfcoref_2902')}

of_Delete function

of_GetKeys function

of_GetLineEnding function

of_GetSections function

of_SetLineEnding function

N_cst_inifile contains object functions:

of_Delete
of_GetKeys
of_GetLineEnding
of_GetSections
of_SetLineEnding

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_Delete function (n_cst_inifile)

{button Object,JI(`>main',`ccjbejja')} {button Examples,JI(`>Examples',`id_pfcoref_2906')}

Description

Removes the specified entry or section from an INI file.

Access

Public

Syntax

instancename.**of_Delete** (*file*, *section* {, *key* })

Argument	Description
instancename	Instance name of n_cst_inifile
file	String naming the INI file containing the entry or section to be deleted
section	String naming the section to be deleted. If you also specify *key*, this value names the section containing the entry to be deleted
key (optional)	String naming the INI file entry to be deleted

Return value

Integer. Returns one of the following values:

1 Function succeeded; entry was deleted

0 Section does not exist within *file*

-1 File error

-2 *file* does not exist

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_Delete function (n_cst_inifile)

This example removes the CustApp section:

```
Integer   li_return


li_return = inv_ini_handler.of_Delete &
        (gnv_app.of_GetAppINIFile(), "CustApp")
IF li_return <> 1 THEN
        MessageBox("Delete", "Entry not deleted")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_GetKeys function (n_cst_inifile)

```
{button Object,JI(`>main',`ccjbejja')} {button
Examples,JI(`>Examples',`id_pfcoref_2908')}
```

Description

Retrieves all keys from a specified section.

Access

Public

Syntax

instancename.**of_GetKeys** (*file*, *sectionname*, *keynames*)

Argument	Description
instancename	Instance name of n_cst_inifile
file	String naming the INI file containing the section whose keys are retrieved
sectionname	String containing the name of the section whose keys are retrieved
keynames	String array to contain the section's key names (passed by reference)

Return value

Integer. Returns one of the following values:

- >0 The number of keys retrieved
- 0 Either there are no keys that exist for the section or the section does not exist
- -1 File error
- -2 The INI file has not been specified or does not exist

Usage

You can use the list of keys to retrieve all of the section's key values.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetKeys function (n_cst_inifile)

This example retrieves all the keys in the CustApp section and displays the list in the lb_keys ListBox:

```
String   ls_keys[ ]

Integer  li_count, li_size

li_size = inv_ini_handler.of_GetKeys &
        (gnv_app.of_GetAppINIFile(), "CustApp", ls_keys)
```

```
lb_keys.Reset()
FOR li_count = 1 to li_size
        lb_keys.AddItem(ls_keys[li_count])
NEXT
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetLineEnding function (n_cst_inifile)

{button Object,JI(`>main',`ccjbejja')} {button Examples,JI(`>Examples',`id_pfcoref_2910')}

Description

Retrieves the platform-specific character or characters used to end lines in an INI file.

Access

Public

Syntax

instancename.**of_GetLineEnding** ( )

Argument	Description
instancename	Instance name of n_cst_inifile

Return value

String. Returns the line end character or characters.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetLineEnding function (n_cst_inifile)

This example calls the of_GetLineEnding function:

```
n_cst_inifile  lnv_ini

String  ls_lineend

ls_lineend = lnv_ini.of_GetLineEnding()
CHOOSE CASE ls_lineend
CASE "~n"
   MessageBox("Line Ending",  &
      "Newline - UNIX")
CASE "~r"
...
CASE "~r~n"
...
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetSections function (n_cst_inifile)

{button Object,JI(`>main',`ccjbejja')} {button Examples,JI(`>Examples',`id_pfcoref_2912')}

Description

Retrieves all sections from an INI file.

Access

Public

Syntax

instancename.**of_GetSections** (*file*, *sectionnames*)

Argument	Description
instancename	Instance name of n_cst_inifile
file	String naming the INI file whose sections are retrieved
sectionnames	String array into which the function places the section names (passed by reference)

Return value

Integer. Returns one of the following values:

>0 The number of sections retrieved

-1 File error

-2 The INI file has not been specified or does not exist

Usage

You can then use the list of sections to retrieve a section's keys.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_GetSections function (n_cst_inifile)

This example retrieves all the sections in the specified INI file and displays the list in the lb_sections ListBox:

```
String  ls_section[ ]

Integer li_count, li_size

li_size = inv_ini_handler.of_GetSections  &
         (gnv_app.of_GetAppINIFile(), ls_section)
lb_sections.Reset( )
FOR li_count = 1 to li_size
        lb_sections.AddItem(ls_section[li_count])
NEXT
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_SetLineEnding function (n_cst_inifile)

```
{button Object,JI(`>main',`ccjbejja')} {button
Examples,JI(`>Examples',`id_pfcoref_2914')}
```

Description

Specifies the platform-specific character or characters used to end lines in an INI file.

Access

Public

Syntax

instancename.**of_SetLineEnding** (*character*)

Argument	Description
instancename	Instance name of n_cst_inifile
character	String containing the line end character or characters: • **~r~n** Carriage return - newline (Windows)

Return value

Integer. Returns 1 if the function succeeds -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetLineEnding function (n_cst_inifile)

This example is from the n_cst_inifile Constructor event:

```
Environment  lenv_obj


GetEnvironment (lenv_obj)
if IsValid (lenv_obj) then
        choose case lenv_obj.ostype
               case aix!, osf1!, hpux!, aix!
                      of_SetLineEnding("~n")
...
case else
          of_SetLineEnding("~r~n")
        end choose
else
        of_SetLineEnding ("~r~n")
end if
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_linkedlistbase

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_2917')}
{button Functions,JI(`>list_win',`id_pfcoref_2921')} {button
Events,JI(`>list_win',`id_pfcoref_2919')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2918')} {button
Descendants,JI(`>list_win',`id_pfcoref_2916')}
```

Description

List service ancestor object. Implement linked list processing through one of this object's descendants:

- N_cst_list
- N_cst_queue
- N_cst_stack

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_linkedlistnode

n_cst_linkedlistnodecompare

Usage

PFC objects use this object as the ancestor for other list-processing objects.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

n_cst_linkedlistbase

n_cst_list

n_cst_queue

n_cst_stack

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

n_cst_linkedlistbase

n_cst_tree

Created with the Personal Edition of HelpNDoc: Create help files for the Qt Help Framework

n_cst_linkedlistbase

{button Functions,JI(`>list_win',`id_pfcoref_2921')} {button Events,JI(`>list_win',`id_pfcoref_2919')}

N_cst_linkedlistbase includes instance variables:

Instance variable	Description	Data type	Access	Usage
inv_compare	Reference to comparison object	N_cst_linkedlistnodecompare	Protected	Set with of_SetCompare (default is n_cst_linkedlistnodecompare)
inv_head	First node in the list	N_cst_linkedlistnode	Protected	Internal
inv_nil	Always nil	N_cst_linkedlistnode	Protected	Internal
inv_tail	Last node in the list	N_cst_linkedlistnode	Protected	Internal

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

n_cst_linkedlistbase

{button Functions,JI(`>list_win',`id_pfcoref_2921')} {button Instance variables,JI(`>list_win',`id_pfcoref_2918')}

Destructor event

N_cst_linkedlistbase includes a precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

Destructor event (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')}

Description

Destroys existing nodes.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

n_cst_linkedlistbase

{button Events,JI(`>list_win',`id_pfcoref_2919')} {button Instance variables,JI(`>list_win',`id_pfcoref_2918')}

of_Add function

of_AddHead function

of_AddTail function

of_Count function

of_Destroy function

of_Get function
of_IsCompareObjectAssigned function
of_IsEmpty function
of_Remove function
of_RemoveHead function
of_RemoveTail function
of_SetCompare function

N_cst_linkedlistbase includes precoded object functions:

of_Add	of_IsCompareObjectAssigned
of_AddHead	of_IsEmpty
of_AddTail	of_Remove
of_Count	of_RemoveHead
of_Destroy	of_RemoveTail
of_Get	of_SetCompare

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_Add function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2923')}

Description

Adds a new node to the linked list.

Access

Protected

Syntax

instancename.**of_Add** (*newnode*, *where*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
newnode	N_cst_linkedlistnode instance to be added to the linked list
where	N_cst_linkedlistnode instance after which *newnode* is added. This node must already be in the list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_Add function (n_cst_linkedlistbase)

This example calls the of_Add function:

```
Return this.of_Add(inv_newnode, inv_currnode)
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_AddHead function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2925')}

Description

Adds a new node to the beginning of the linked list.

Access

Protected

Syntax

instancename.**of_AddHead** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
newnode	N_cst_linkedlistnode instance to be added at the beginning of the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_AddHead function (n_cst_linkedlistbase)

This example is from the of_AddTail function:

```
...

if isnull(inv_head) or not isvalid(inv_head) then
        return of_AddHead(anv_newtailnode)
end if
...
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_AddTail function (n_cst_linkedlistbase)

```
{button Object,JI(`>main',`biicgiaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2927')}
```

Description

Adds a new node to the end of the linked list.

Access

Protected

Syntax

instancename.**of_AddTail** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
newnode	N_cst_linkedlistnode instance to be added at the end of the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_AddTail function (n_cst_linkedlistbase)

This example is from the of_Add function:

```
...

If anv_insertafternode = inv_tail Then
        Return of_AddTail(anv_newnode)
End If
...
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_Count function (n_cst_linkedlistbase)

```
{button Object,JI(`>main',`biicgiaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2929')}
```

Description

Retrieves a count of the number of nodes in the linked list.

Access

Public

Syntax

instancename.**of_Count** ( )

Argument	Description
instancename	Instance name of n_cst_linkedlistbase

Return value

Long. Returns the number of nodes in the linked list.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Count function (n_cst_linkedlistbase)

This example calls the of_Count function:

```
...

ll_count = inv_list.of_Count()
st_result.Text =  &
   "Item count: " + String(ll_count)
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_Destroy function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2931')}

Description

Destroys all nodes in the linked list.

Access

Public

Syntax

instancename.**of_Destroy** ( )

Argument	Description
instancename	Instance name of n_cst_linkedlistbase

Return value

Integer. Returns the number of nodes destroyed if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_Destroy function (n_cst_linkedlistbase)

This example calls the of_Destroy function:

```
...li_count = inv_queue.of_Destroy()st_result.Text = &

        String(li_count) + ' items deleted'...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_Get function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2933')}

Description

Retrieves all nodes in a list.

Access

Public

Syntax

instancename.**of_Get** (*nodes*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
node	N_cst_linkedlistnode array into which the function places references to the nodes in the list (passed by reference)

Return value

Integer. Returns the number of elements in the *node* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Get function (n_cst_linkedlistbase)

This example calls the of_Get function:

```
Long ll_rc

n_cst_linkedlistnode inv_nodes[]

ll_rc = inv_list.of_Get(inv_nodes)
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_IsCompareObjectAssigned function (n_cst_linkedlistbase)

```
{button Object,JI(`>main',`biicgiaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2935')}
```

Description

Reports whether a comparison object has been assigned.

Access

Public

Syntax

instancename.**of_IsCompareObjectAssigned** ( )

Argument	Description
instancename	Instance name of n_cst_linkedlistbase

Return value

Boolean. Returns TRUE if a comparison object has been assigned and FALSE if no comparison object has been assigned.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsCompareObjectAssigned function (n_cst_linkedlistbase)

This example calls the of_IsCompareObjectAssigned function:

```
IF NOT inv_list.of_IsCompareObjectAssigned() THEN

        MessageBox("Comparison object", "Not assigned")
ELSE
        MessageBox("Comparison object", "Is assigned")
END IF
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_IsEmpty function (n_cst_linkedlistbase)

```
{button Object,JI(`>main',`biicgiaj')} {button
Examples,JI(`>Examples',`id_pfcoref_2937')}
```

Description

Reports whether a list is empty.

Access

Public

Syntax

instancename.**of_IsEmpty** ( )

Argument	Description
instancename	Instance name of n_cst_linkedlistbase

Return value

Integer. Returns TRUE if the list is empty and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_IsEmpty function (n_cst_linkedlistbase)

This example calls the of_IsEmpty function:

```
IF NOT inv_list.of_IsEmpty() THEN

        MessageBox("List", "Is empty")
ELSE
        MessageBox("List", "Is not empty")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_Remove function (n_cst_linkedlistbase)

`{button Object,JI(`>main',`biicgiaj')}`

Description

Removes the specified node from a linked list, resetting pointers as appropriate.

Access

Protected

Syntax

instancename.**of_Remove** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
removenode	N_cst_linkedlistnode instance to remove from the linked list (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_RemoveHead function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2940')}

Description

Removes the first node from a linked list, resetting pointers as appropriate and returning the removed node.

Access

Protected

Syntax

instancename.**of_RemoveHead** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
removenode	N_cst_linkedlistnode instance into which the function places a reference to the returned node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_RemoveHead function (n_cst_linkedlistbase)

This example is from the n_cst_list of_RemoveHead function:

```
Return Super::of_RemoveHead(anv_headnode)
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_RemoveTail function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2942')}

Description

Removes the last node from a linked list, resetting pointers as appropriate and returning the removed node.

Access

Protected

Syntax

instancename.**of_RemoveTail** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
removenode	N_cst_linkedlistnode instance into which the function places a reference to the returned node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_RemoveTail function (n_cst_linkedlistbase)

This example is from the n_cst_list of_RemoveTail function:

```
Return Super::of_RemoveTail(anv_tailnode)
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetCompare function (n_cst_linkedlistbase)

{button Object,JI(`>main',`biicgiaj')} {button Examples,JI(`>Examples',`id_pfcoref_2944')}

Description

Establishes a comparison object other than n_cst_linkedlistnodecompare.

Access

Public

Syntax

instancename.**of_SetCompare** (*comparisonobject*)

Argument	Description
instancename	Instance name of n_cst_linkedlistbase
comparisonobject	N_cst_linkedlistnodecompare descendant instance that overrides the of_Compare function

Return value

Integer. Returns 1 if the function succeeds, -1 if an error occurs, and -2 if the comparison object has already been set.

Usage

Call this function to establish a customized comparison object. List service objects uses the comparison object's of_Compare function when handling sorted lists. The default comparison object (n_cst_linkedlistnodecompare) can handle comparison for simple data types. But if your list's key items contain some other data type, you must create a customized n_cst_linkedlistnodecompare descendant and implement an of_Compare function to handle sort order.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetCompare function (n_cst_linkedlistbase)

This example calls the of_SetCompare function (it assumes an inv_customcompare instance variable):

```
inv_customcompare = CREATE n_cst_customcompare


inv_list.of_SetCompare(inv_customcompare)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

n_cst_linkedlistnode

```
{button Ancestor,JI(`>main',`biibdiie')} {button See also,PI(`',`id_pfcoref_2946')}
```

Description

List instance object.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

Use n_cst_linkedlistnode as the list instance object for stacks, queues, sorted lists, and unsorted lists.

To use n_cst_linkedlistnode:

1 Declare a variable for your list (an instance variable in this example):

```
n_cst_list inv_list
```

2 Declare variables for list nodes (local variables in this example):

```
n_cst_linkedlistnode lnv_node
```

3 Create the node instance:

```
lnv_node = CREATE n_cst_linkedlistnode
```

4 Access the node's key and data values as appropriate:

```
lnv_node.of_SetKey(sle_1.text)

lnv_node.of_SetData(sle_1.text)
```

5 Call list-processing functions as appropriate:

```
li_return = inv_list.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

n_cst_linkedlistnode

n_cst_list

n_cst_queue

n_cst_stack

n_cst_linkedlistnodecompare

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

n_cst_linkedlistnodecompare

{button Ancestor,JI(`>main',`biibfaej')} {button See also,PI(`',`id_pfcoref_2948')}

Description

Node comparison object. N_cst_list uses this object to compare values during find operations and before placement in a sorted list.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

This object can handle key comparison for simple data types but if your list's key items contain some other data type, you must create a customized n_cst_linkedlistnodecompare descendant to handle comparison processing.

To use a customized descendant of n_cst_linkedlistnodecompare:

1. Use the User Object painter to create a customized n_cst_linkedlistnodecompare descendant.
2. In the customized n_cst_linkedlistnodecompare descendant, implement a Public of_Compare function to compare key values in the two passed nodes. This function should take two arguments of type n_cst_nodebase (passed by value) and return integer values as follows:
   - **1** The key of the first node is less than the key of the second node
   - **0** The key of the first node is equal to the key of the second node
   - **2** The key of the first node is greater than the key of the second node

   In this example, each passed node contains a reference to a custom class user object with state and last name instance variables to compare:

```
Any la_key1,la_key2
```

```
String ls_keytype1,ls_keytype2
n_cst_empinfo  lnv_emp1, lnv_emp2

IF NOT IsValid(anv_node1) THEN
  Return -1
END IF
IF NOT IsValid(anv_node2) THEN
  Return -1
END IF
anv_node1.of_GetKey(la_key1)
IF IsNull(la_key1) THEN
  Return -1
END IF
anv_node2.of_GetKey(la_key2)
IF IsNull(la_key2) THEN
  Return -1
END IF

ls_keytype1 = ClassName(la_key1)
ls_keytype2 = ClassName(la_key2)

// Check class types
IF ls_keytype1 <> ls_keytype2 THEN
  Return -1
END IF

IF ls_keytype1 = "" THEN Return -1
IF IsNull(ls_keytype1) THEN Return -1
IF ls_keytype1 <> "n_cst_empinfo" THEN Return -1
IF ls_keytype2 = "" THEN Return -1
IF IsNull(ls_keytype2) THEN Return -1
IF ls_keytype2 <> "n_cst_empinfo" THEN Return -1
lnv_emp1 = la_key1 // Cast to n_cst_empinfo
lnv_emp2 = la_key2

// First compare State.
IF lnv_emp1.is_state < lnv_emp2.is_state THEN
  return this.LESSTHAN
elseif lnv_emp1.is_state > lnv_emp2.is_state THEN
  return this.GREATERTHAN
ELSE   // States are equal; compare lname.
  IF lnv_emp1.is_lname < lnv_emp2.is_lname THEN
    Return this.LESSTHAN
  ELSEIF lnv_emp1.is_lname > lnv_emp2.is_lname THEN
    Return this.GREATERTHAN
  ELSE  // State and lname are equal.
    Return this.EQUAL
  END IF
END IF
Return this.FAILURE
```

3 In the object that uses PFC list-processing, define an instance variable that uses your customized n_cst_linkedlistnodecompare object as the data type:

```
n_cst_mycompare inv_customcompare
```

4 Create an instance of the customized comparison object and call the n_cst_list of_SetCompare function:

```
inv_customcompare = CREATE n_cst_mycompare


inv_list.of_SetCompare(inv_customcompare)
```

5 Call list-processing functions as necessary (this example displays linked list contents in a ListBox):

```
n_cst_linkedlistnode  lnv_nodes[ ]

Integer  li_return, li_count
Any  la_data
String  ls_data
n_cst_empinfo  lnv_empinfo

li_return = inv_list.of_Get(lnv_nodes)
FOR li_count = 1 to li_return
  lnv_nodes[li_count].of_GetData(la_data)
  lnv_empinfo = la_data  // Cast to n_cst_empinfo
    ls_data = lnv_empinfo.is_lname  &
      + ", " + lnv_empinfo.is_fname
  lb_1.AddItem(ls_data)
NEXT
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

n_cst_linkedlistnodecompare

n_cst_list

n_cst_treenodecompare

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

n_cst_list

{button Ancestor,JI(`>main',`biicgiaj')} {button See also,PI(`',`id_pfcoref_2950')} {button Functions,JI(`>list_win',`id_pfcoref_2952')} {button Instance variables,JI(`>list_win',`id_pfcoref_2951')}

Description

List processing object. You can implement either a sorted or unsorted list, optionally allowing duplicates.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_linkedlistnode

n_cst_linkedlistnodecompare

Usage

Use this object for simple linked lists and sorted linked lists. A sorted linked list can optionally allow duplicates.

To use this object:

1 Establish a variable of type n_cst_list:

```
n_cst_list  inv_list
```

2 (Optional) Specify whether the list is sorted:

```
inv_list.of_SetSorted(TRUE)
```

3 (Optional) Specify whether a sorted list disallows duplicates:

```
inv_list.of_SetDuplicatesAllowed(FALSE)
```

4 Add nodes to the list:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return
```

```
lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_key.text)
lnv_node.of_SetData(sle_data.text)
li_return = inv_list.of_Add(lnv_node)
```

5 Retrieve nodes from the list:

```
n_cst_linkedlistnode  lnv_nodes[ ]

Integer  li_return, li_count
Any  la_data
String  ls_data

lb_1.Reset()
li_return = inv_list.of_Get(lnv_nodes)
FOR li_count = 1 to li_return
   lnv_nodes[li_count].of_GetData(la_data)
      ls_data = String(la_data)
      lb_1.AddItem(ls_data)
NEXT
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

n_cst_list

n_cst_linkedlistnode

n_cst_linkedlistnodecompare

n_cst_queue

n_cst_stack

n_cst_tree

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

n_cst_list

{button Functions,JI(`>list_win',`id_pfcoref_2952')}

N_cst_list includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_duplicatesallowed	Indicates whether the list allows duplicates	Boolean	Protected	Set with of_SetDuplicatesAllowed (the default is TRUE)
ib_sorted	Indicates whether list is sorted	Boolean	Protected	Set with of_SetSorted (the default is FALSE)

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

n_cst_list

{button Instance variables,JI(`>list_win',`id_pfcoref_2951')}

of_Add function

of_AddHead function

of_AddTail function

of_Find function

of_IsDuplicatesAllowed function

of_IsInList function

of_IsSorted function

of_Remove function

of_RemoveHead function

of_RemoveTail function

of_SetDuplicatesAllowed function

of_SetSorted function

N_cst_list includes precoded object functions:

of_Add	of_IsSorted
of_AddHead	of_Remove
of_AddTail	of_RemoveHead
of_Find	of_RemoveTail
of_IsDuplicatesAllowed	of_SetDuplicatesAllowed
of_IsInList	of_SetSorted

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_Add function (n_cst_list)

{button Object,JI(`>main',`cbbdagih')} {button Examples,JI(`>Examples',`id_pfcoref_2954')}

Description

Adds a new node to the linked list.

Access

Public

Syntax

instancename.**of_Add** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_list
newnode	N_cst_linkedlistnode instance to be added to the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You must instantiate and initialize *newnode* before calling this function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_Add function (n_cst_list)

This example calls the of_Add function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_list.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_AddHead function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2956')}
```

Description

Adds a new node to the beginning of the linked list.

Access

Public

Syntax

instancename.**of_AddHead** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_list
newnode	N_cst_linkedlistnode instance to be added at the beginning of the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_AddHead function (n_cst_list)

This example calls the of_AddHead function:

```
...

if isnull(inv_head) or not isvalid(inv_head) then
```

```
   return of_AddHead(anv_newnode)
end if
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_AddTail function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2958')}
```

Description

Adds a new node to the end of the linked list.

Access

Public

Syntax

instancename.**of_AddTail** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_list
newnode	N_cst_linkedlistnode instance to be added at the end of the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_AddTail function (n_cst_list)

This example calls the of_AddTail function:

```
...

If anv_insertafternode = inv_tail Then
   Return of_AddTail(anv_newnode)
End If
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Find function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2960')}
```

Description

Retrieves a node from the linked listed based upon the key value.

Access

Public

Syntax

instancename.**of_Find** (*foundnode*, *nodewithkey*)

Argument	Description
instancename	Instance name of n_cst_list
foundnode	N_cst_linkedlistnode instance into which the function places the node if a match is found (passed by reference)
nodewithkey	N_cst_linkedlistnode instance containing the key value used to find the requested node

Return value

Integer. Returns values as follows:

- **1** Success
- **0** Node not found
- **-1** Error

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Find function (n_cst_list)

This example is from the of_IsInList function:

```
...

If of_Find(lnv_locatenode, anv_node) = 1 Then
   // Node was found in list.
   Return True
End If
...
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_IsDuplicatesAllowed function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2962')}
```

Description

Reports whether a sorted linked list allows duplicates.

Access

Public

Syntax

instancename.**of_IsDuplicatesAllowed** ( )

Argument	Description
instancename	Instance name of n_cst_list

Return value

Boolean. Returns TRUE if duplicates are allowed and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_IsDuplicatesAllowed function (n_cst_list)

This example calls the of_IsDuplicatesAllowed function:

```
Boolean lb_duplicates


lb_duplicates = inv_list. of_IsDuplicatesAllowed()
IF lb_duplicates THEN
  MessageBox("Sorted List", "Duplicates are allowed")
ELSE
  MessageBox("Sorted List", "Duplicates not allowed")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_IsInList function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2964')}
```

Description

Reports whether a node with the specified key is in the list.

Access

Public

Syntax

instancename.**of_IsInList** (*node*)

Argument	Description
instancename	Instance name of n_cst_list
node	N_cst_linkedlistnode instance containing the key used as search criteria

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the of_Find function.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_IsInList function (n_cst_list)

This example calls the of_IsInList function:

```
n_cst_linkedlistnode  lnv_temp

Boolean  lb_return

lnv_temp = CREATE n_cst_linkedlistnode
lnv_temp.of_SetKey(sle_2.text)
```

```
lb_return = inv_list.of_IsInList(lnv_temp)
IF lb_return THEN
   MessageBox("Found", "Node was found")
ELSE
   MessageBox("Not Found", "Node was not found")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_IsSorted function (n_cst_list)

{button Object,JI(`>main',`cbbdagih')} {button Examples,JI(`>Examples',`id_pfcoref_2966')}

Description

Reports whether a list is sorted.

Access

Public

Syntax

instancename.**of_IsSorted** ( )

Argument	Description
instancename	Instance name of n_cst_list

Return value

Boolean. Returns TRUE if the list is sorted and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_IsSorted function (n_cst_list)

This example calls the of_IsSorted function:

```
IF inv_list.of_IsSorted() THEN

   MessageBox("Linked List", "Sorted")
ELSE
   MessageBox("Linked List", "Unsorted")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_Remove function (n_cst_list)

{button Object,JI(`>main',`cbbdagih')} {button Examples,JI(`>Examples',`id_pfcoref_2968')}

Description

Removes the specified node from a linked list, resetting pointers as appropriate.

Access

Public

Syntax

instancename.**of_Remove** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_list
removenode	N_cst_linkedlistnode instance to remove from the linked list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_Remove function (n_cst_list)

This example calls the of_Remove function:

```
n_cst_linkedlistnode  lnv_node, lnv_temp


Integer  li_return
Long  ll_oldtextcolor

lnv_temp = CREATE n_cst_linkedlistnode

IF sle_2.text = "" THEN
   MessageBox("Data Entry Error",  &
      "You must enter a node to delete")
   Return
END IF

lnv_temp.of_SetKey(sle_2.text)
li_return = inv_list.of_Find(lnv_node, lnv_temp)
IF li_return < 1 THEN
   ll_oldtextcolor = sle_2.textcolor
   sle_2.textcolor = RGB(255, 0, 0)
   MessageBox("Not Found",  &
      "The specified node was not found")
   sle_2.textcolor = ll_oldtextcolor
   Return
END IF
li_return = inv_list.of_Remove(lnv_node)
IF li_return = 1 THEN
   MessageBox("Success", "Node removed successfully")
END IF
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_RemoveHead function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2970')}
```

Description

Removes the first node from a linked list, resetting pointers as appropriate and returning the removed node.

Access

Public

Syntax

instancename.**of_RemoveHead** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_list
removenode	N_cst_linkedlistnode instance into which the function places a reference to the returned node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_RemoveHead function (n_cst_list)

This example calls the of_RemoveHead function:

```
Return Super::of_RemoveHead(anv_headnode)
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_RemoveTail function (n_cst_list)

{button Object,JI(`>main',`cbbdagih')} {button Examples,JI(`>Examples',`id_pfcoref_2972')}

Description

Removes the last node from a linked list, resetting pointers as appropriate and returning the removed node.

Access

Public

Syntax

instancename.**of_RemoveTail** (*removenode*)

Argument	Description
instancename	Instance name of n_cst_list
removenode	N_cst_linkedlistnode instance into which the function places a reference to the returned node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_RemoveTail function (n_cst_list)

This example calls the of_RemoveTail function:

```
Return Super::of_RemoveTail(anv_tailnode)
```

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_SetDuplicatesAllowed function (n_cst_list)

{button Object,JI(`>main',`cbbdagih')} {button Examples,JI(`>Examples',`id_pfcoref_2974')}

Description

Specifies whether a sorted list allows duplicates.

Access

Public

Syntax

instancename.**of_SetDuplicatesAllowed** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_list
boolean	Boolean indicating whether duplicates are allowed (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetDuplicatesAllowed function (n_cst_list)

This example calls the of_SetDuplicatesAllowed function:

```
...

inv_list.of_SetSorted(TRUE)
inv_list.of_SetDuplicatesAllowed(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetSorted function (n_cst_list)

```
{button Object,JI(`>main',`cbbdagih')} {button
Examples,JI(`>Examples',`id_pfcoref_2976')}
```

Description

Specifies whether the list is sorted.

Access

Public

Syntax

instancename.**of_SetSorted** ( )

Argument	Description
instancename	Instance name of n_cst_list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For a sorted list, you should also call of_SetDuplicatesAllowed to specify whether the sorted list allows duplicates.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetSorted function (n_cst_list)

This example calls the of_SetSorted function:

```
...

inv_list.of_SetSorted(TRUE)
inv_list.of_SetDuplicatesAllowed(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

n_cst_luw

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_2978')}
{button Functions,JI(`>list_win',`id_pfcoref_2982')} {button
Events,JI(`>list_win',`id_pfcoref_2980')} {button Instance
variables,JI(`>list_win',`id_pfcoref_2979')}
```

Description

Logical unit of work service. N_cst_luw provides support for self-updating objects. A self-updating object encapsulates all required update functionality by implementing a set of functions (self-updating object API) that n_cst_luw calls during the save process:

of_AcceptText

of_UpdatesPending

of_Validation

of_UpdatePrep

of_Update

of_PostUpdate

PFC includes several self-updating objects, including u_dw, n_ds, u_lvs, u_tab, u_base, w_master, and

u_tvs. Refer to these objects to see implementations of the self-updating object API.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dberrorattrib

n_cst_metaclass

n_tr

Usage

PFC uses n_cst_luw to coordinate and perform updates on a control or a group of controls. For example the w_master pfc_Save process calls n_cst_luw functions.

You can also use n_cst_luw as a standalone object to perform database updates via the of_Save function.

See the PFC User's Guide.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

n_cst_luw

n_ds

u_base

u_dw

u_lvs

u_tab

u_tvs

w_master

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_cst_luw

{button Functions,JI(`>list_win',`id_pfcoref_2982')} {button Events,JI(`>list_win',`id_pfcoref_2980')}

N_cst_luw includes instance variables:

Instance variable	Description	Data type	Access	Usage
ALL_OBJECTS	Constant set to an empty string	String	Public	This is the default for ib_typetoprocess
ib_accepttext	Indicates whether the of_Save function accepts text by default	Boolean	Protected	The default is TRUE
ib_alwaysvalidate	Indicates whether n_cst_luw validates all controls, even those with no pending updates	Boolean	Protected	Set with of_SetAlwaysValidate (the default is FALSE)
ib_resetflag	Indicates whether the of_Save function resets update flags by default	Boolean	Protected	The default is FALSE
inv_dberrorattrib	Database error information	n_cst_dberrorattrib	Protected	Set with of_SetDBErrorMsg
inv_metaclass	Reference to metaclass service	n_cst_metaclass	Protected	Internal
ipo_pendingupdates[ ]	Controls with pending updates	PowerObject	Protected	Set by of_UpdatesPending
ipo_requestor	Object owning this instance of n_cst_luw	PowerObject	Protected	Set with of_Requestor
ipo_updaterequestor	Object requesting the update	PowerObject	Protected	Set with of_ SetUpdateRequestor
is_instancename	Unique name for this instance of n_cst_luw	String	Protected	Internal
is_typetoprocess	Customized list of object types to update	String	Protected	Set with of_SetTypeToProcess. Default is ALL_OBJECTS

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

n_cst_luw

{button Functions,JI(`>list_win',`id_pfcoref_2982')} {button Instance variables,JI(`>list_win',`id_pfcoref_2979')}

Constructor event

N_cst_luw includes a precoded event:

Constructor

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with

HelpNDoc's easy CHM conversion

Constructor event (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')}

Description

Establishes a unique identifier for the current instance of n_cst_luw.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

n_cst_luw

{button Events,JI(`>list_win',`id_pfcoref_2980')} {button Instance variables,JI(`>list_win',`id_pfcoref_2979')}

of_AcceptText function

of_BeginTran function

of_DBError function

of_EndTran function

of_EndTranError function

of_GetType function

of_GetTypeToProcess function

of_GetUpdateRequestor function

of_IsAlwaysValidate function

of_IsSelfUpdatingObject function

of_PostUpdate function

of_PreUpdate function

of_Save function

of_SetAlwaysValidate function

of_SetDBErrorMsg function

of_SetRequestor function

of_SetTypeToProcess function

of_SetUpdateRequestor function

of_Update function

of_UpdatePrep function

of_UpdatesPending function

of_Validation function

N_cst_luw includes precoded functions:

of_AcceptText
of_BeginTran
of_DBError
of_EndTran
of_EndTranError
of_GetType
of_GetTypeToProcess
of_PreUpdate
of_Save
of_SetAlwaysValidate
of_SetDBErrorMsg
of_SetRequestor
of_SetTypeToProcess
of_SetUpdateRequestor

of_GetUpdateRequestor
of_IsAlwaysValidate
of_IsSelfUpdatingObject
of_PostUpdate
of_Update
of_UpdatePrep
of_UpdatesPending
of_Validation

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_AcceptText function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_2984')}

Description

Calls the of_AcceptText function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_AcceptText** (*controlarray*, *focusonerror*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
controlarray	PowerObject array containing the control to check
focusonerror	Boolean specifying whether to set focus on a DataWindow column with errors

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For non-PFC DataWindows and DataStores, this function calls the AcceptText function directly. For PFC DataWindows and other self updating objects, this function calls the object's of_AcceptText function, if implemented. To create additional accept text processing, extend the self-updating object's pfc_Accept event.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_AcceptText function (n_cst_luw)

This example is from the w_master pfc_AcceptText event:

```
...If IsValid(inv_luw) Then

Return inv_luw.of_AcceptText(apo_control[ ],  &
        ab_focusonerror)End If...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_BeginTran function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2986')}
```

Description

Begins transactions for the passed Transaction objects.

Access

Public

Syntax

instancename.**of_BeginTran** (*transactions*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
transactions	N_tr or n_tr array referencing Transaction objects for which start-of-transaction processing is initiated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To use this function:

- Optionally add code to the window's pfc_BeginTran event that calls this function
- Override the n_tr of_Begin function, adding code that performs begin transaction process as necessary

This function calls the n_tr of_Begin function for each object in the *transactions* array.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_BeginTran function (n_cst_luw)

This example calls the of_BeginTran function:

```
n_tr  ltr_trans[ ]


ltr_trans[1] = SQLCA
IF IsValid(inv_luw) THEN
   IF inv_luw.of_BeginTran(ltr_trans) = -1 THEN
      Return -1
   END IF
END IF
Return 1
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_DBError function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2988')}
```

Description

Displays a message box using the passed database error message.

Access

Protected

Syntax

instancename.**of_DBError** (*errorinfo*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
errorinfo	N_cst_dberrorattrib containing database error information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_DBError function (n_cst_luw)

This example is from the of_Save function:

```
...

If li_save_rc<=0 Then
  This.of_dberror(inv_dberrorattrib)
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_EndTran function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2990')}
```

Description

Commits or rolls back all specified transactions as appropriate.

Access

Public

Syntax

instancename.**of_EndTran** (*transactions*, *savestate*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
transactions	N_tr array containing transactions
savestate	Integer containing the current status of the save process

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_EndTran function (n_cst_luw)

This example is from the of_Save function:

```
...

li_endtran_rc =  &
   This.of_endtran(atr_control, li_save_rc)
...
```

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_EndTranError function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2992')}
```

Description

Displays a message box listing end of transaction errors. This can include information on transactions that were committed and those that were rolled back.

Access

Protected

Syntax

instancename.**of_EndTranError** (*trcommit*, *trrollback*, *returncodes*, *savestate*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
trcommit	N_tr array referencing transactions that were committed
trrollback	N_tr array referencing transactions that were rolled back
returncodes	Integer array containing ROLLBACK return codes
savestate	Integer containing the current status of the save process

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_EndTranError function (n_cst_luw)

This example is from the of_EndTran function:

```
...

li_rc = of_EndTranError(ltr_performed,  &
   ltr_secondary, li_secondaryrc, ai_saverc)
...
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetType function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2994')}
```

Description

Retrieves the type of the specified control.

Access

Protected

Syntax

instancename.**of_GetType** (*control*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
control	PowerObject containing the control

Return value

String. Returns the control name if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetType function (n_cst_luw)

This example is from the of_AcceptText function:

```
...

If Pos(is_typetoprocess,  &
   of_GetType(lpo_tocheck)) = 0 Then
      Continue
End If
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetTypeToProcess function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2996')}
```

Description

Retrieves the types of objects accessed by the save process.

Access

Public

Syntax

instancename.**of_GetTypeToProcess** ( )

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)

Return value

String. Returns the types of objects accessed by the save process (an empty string means all objects are supported).

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetTypeToProcess function (n_cst_luw)

This example calls the of_GetTypeToProcess function:

```
String  ls_types


ls_types = parent.inv_luw.of_GetTypeToProcess()
MessageBox("LUW", "Save types are " + ls_types)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetUpdateRequestor function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_2998')}
```

Description

Retrieves a reference to the object requesting the update.

Access

Public

Syntax

instancename.**of_GetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
requestor	PowerObject into which the function places a reference to the object requesting the update (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if there is no update requestor, and -1 if an error occurs.

Usage

An update requestor, which establishes an owner for self-updating objects, is optional.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_GetUpdateRequestor function (n_cst_luw)

This example calls the of_GetUpdateRequestor function:

```
PowerObject  lpo_req


IF inv_luw.of_GetUpdateRequestor(lpo_req) > 1 THEN
   MessageBox("LUW", "Update requestor is: "  &
      + lpo_req.ClassName())
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_IsAlwaysValidate function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3000')}
```

Description

Reports whether n_cst_luw always performs validation.

Access

Public

Syntax

instancename.**of_IsAlwaysValidate** ( )

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)

Return value

Boolean. Returns TRUE if n_cst_luw performs validation on all objects (event those without pending updates) and FALSE if n_cst_luw performs validation on objects with pending updates only.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_IsAlwaysValidate function (n_cst_luw)

This example calls the of_IsAlwaysValidate function:

```
IF parent.inv_luw.of_IsAlwaysValidate() = TRUE THEN

   MessageBox("LUW", "Always validate")
ELSE
   MessageBox("LUW", "Sometimes validate")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_IsSelfUpdatingObject function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_3002')}

Description

Reports whether the passed control is a self-updating object.

Access

Protected

Syntax

instancename.**of_IsSelfUpdatingObject** (*control*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
control	PowerObject containing the control

Return value

Boolean. Returns TRUE if *control* is a self updating object.

Usage

Override this function redefine the functions that make up a self-updating object.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_IsSelfUpdatingObject function (n_cst_luw)

This example is from the of_AcceptText function:

```
...

Case Window!
        If Not of_IsSelfUpdatingObject(lpo_tocheck) Then
               lw_control = lpo_tocheck
               li_rc = This.of_AcceptText  &
                      (lw_control.control, ab_FocusOnError )
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_PostUpdate function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_3004')}

Description

Calls the of_PostUpdate function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_PostUpdate** (*controls*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
controls	PowerObject array containing the controls for which DataWindow update flags are reset

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For non-PFC DataWindows, this function calls the ResetUpdate function directly. For PFC DataWindows and other self-updating objects, this function calls the object's of_PostUpdate function, which resets updates flags as appropriate. To create additional post-update processing, extend the self-updating object's pfc_PostUpdate event.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_PostUpdate function (n_cst_luw)

This example calls the of_PostUpdate function:

```
...

If IsValid(inv_luw) Then
        Return inv_luw.of_PostUpdate(apo_control)
End If
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_PreUpdate function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3006')}
```

Description

Empty function that you override in n_cst_luw to perform application-specific pre-update processing.

Access

Public

Syntax

instancename.**of_PreUpdate** ( )

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_PreUpdate function (n_cst_luw)

This example is from the w_master pfc_PreUpdate event:

```
...

If IsValid(inv_luw) Then
        Return inv_luw.of_PreUpdate()
End If
...
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_Save function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3008')}
```

Description

Performs a complete save operation for the specified object or objects.

Access

Public

Syntax

instancename.**of_Save** (*control*, *transaction*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
control	PowerObject or PowerObject array containing the control or controls to be updated
transaction	N_tr or n_tr array containing the Transaction objects required by the update

Return value

Integer. Returns values as follows:

- **1** Success
- **0** No pending updates
- **-1** Accept text error
- **-2** Updates pending error
- **-3** Validation error
- **-4** Pre-update error
- **-5** Begin transaction error
- **-6** Update error
- **-7** End transaction error

- **-8** Post save error
- **-9** Update prep error

Usage

Call this function to perform the complete save process using n_cst_luw only.

The *transaction* argument is used by begin transaction and end transaction processing.

This function calls other n_cst_luw functions:

of_AcceptText

of_UpdatesPending

of_Validation

of_UpdatePrep

of_PreUpdate

of_BeginTran

of_Update

of_DBError (as appropriate)

of_PostUpdate

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_Save function (n_cst_luw)

This example calls the of_Save function:

```
n_cst_luw  lnv_luw

Integer  li_return

lnv_luw = CREATE n_cst_luw
li_return = lnv_luw.of_Save(tv_1, SQLCA)
IF li_return < 0 THEN
        MessageBox("Save", "Save Error")
END IF
DESTROY lnv_luw
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_SetAlwaysValidate function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3010')}
```

Description

Specifies whether n_cst_luw performs validation even for those objects that do not have pending updates.

Access

Public

Syntax

instancename.**of_SetAlwaysValidate** (*boolean*)

Argument	Description

instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
boolean	Boolean specifying whether n_cst_luw always perform validation (TRUE) or only performs validation if a control has pending updates

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_SetAlwaysValidate function (n_cst_luw)

This example calls the of_SetAlwaysValidate function:

```
inv_luw.of_SetAlwaysValidate(TRUE)
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_SetDBErrorMsg function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_3012')}

Description

Specifies the message that appears for a database error.

Access

Public

Syntax

instancename.**of_SetDBErrorMsg** (*errorinfo*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
errorinfo	N_cst_dberrorattrib containing database error information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The message specified here is displayed by the of_DBError function.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetDBErrorMsg function (n_cst_luw)

This example calls the of_SetDBErrorMsg function:

```
n_cst_dberrorattrib lnv_dberrorattrib
```

```
inv_dberrorattrib.is_errormsg = "Update Error"
inv_luw.of_SetDBErrorMsg(lnv_dberrorattrib)
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_SetRequestor function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_3014')}

Description

Associates the requesting object with this instance of n_cst_luw.

Access

Public

Syntax

instancename.**of_SetRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
requestor	PowerObject containing the requesting object (typically a w_master, u_tab, or u_base descendant)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This reference is not required.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_SetRequestor function (n_cst_luw)

This example is from the w_master of_SetLogicalUnitOfWork function:

```
...

if IsNull(inv_luw) Or not IsValid(inv_luw) then
       inv_luw = create n_cst_luw
       inv_luw.of_SetRequestor(this)
       inv_luw.of_SetUpdateRequestor(this)
       return 1
    end if
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetTypeToProcess function (n_cst_luw)

{button Object,JI(`>main',`ccjcehca')} {button Examples,JI(`>Examples',`id_pfcoref_3016')}

Description

Specifies the types of controls accessed by a default save process.

Access

Public

Syntax

instancename.**of_SetTypeToProcess** (*controltypes*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
controltypes	String containing a blank separated list of the controls processed by a default save process

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The default is an empty string (or the ALL_OBJECTS constant), which results in all controls being processed.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetTypeToProcess function (n_cst_luw)

This example calls the of_SetTypeToProcess function:

```
inv_luw.of_SetTypeToProcess  &

   ("datawindow listview treeview")
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetUpdateRequestor function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3018')}
```

Description

Associates n_cst_luw with the object requesting the update process.

Access

Public

Syntax

instancename.**of_SetUpdateRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
requestor	PowerObject containing the updating object or control

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When appropriate, n_cst_luw uses this reference when referencing self-updating objects. If you do not set this reference, n_cst_luw uses itself as the reference.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetUpdateRequestor function (n_cst_luw)

This example calls the of_SetUpdateRequestor function:

```
...

if IsNull(inv_luw) Or not IsValid(inv_luw) then
       inv_luw = create n_cst_luw
       inv_luw.of_SetRequestor(this)
       inv_luw.of_SetUpdateRequestor(this)
       return 1
        end if
...
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_Update function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3020')}
```

Description

Calls the of_Update function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_Update** (*controlarray*, *accepttext*, *resetflags*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
controlarray	PowerObject array containing the controls to be updated
accepttext	Boolean indicating whether to perform an accept text before performing the update
resetflags	Boolean indicating whether to automatically reset update flags

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For non-PFC DataWindows and DataStores, this function calls the Update function directly. For PFC DataWindows and other self-updating objects, this function calls the object's of_Update function, if implemented. To create additional update processing, extend the self-updating object's pfc_Update event.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_Update function (n_cst_luw)

This example is from the w_master pfc_UpdateObjects event:

```
...
```

```
If IsValid(inv_luw) Then
        Return inv_luw.of_Update(apo_control, &
      ab_accepttext, ab_resetflag)
End If
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_UpdatePrep function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3022')}
```

Description

Calls the of_UpdatePrep function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_UpdatePrep** (*controlarray*)

Argument	Description
instancename	Instance name of n_cst_luw (the PFC default is inv_luw)
controlarray	PowerObject array containing the controls to be updated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For non-PFC DataWindows and DataStores, this function calls the ue_UpdatePrep event, which you extend in the self-updating object to perform customized update preparation. For PFC DataWindows and other self-updating objects, this function calls the object's of_UpdatePrep function, if implemented. To create additional update processing, extend the self-updating object's pfc_UpdatePrep event

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_UpdatePrep function (n_cst_luw)

This example is from the w_master pfc_UpdatePrep event:

```
...

If IsValid(inv_luw) Then
        Return inv_luw.of_UpdatePrep(apo_control)
End If
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_UpdatesPending function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3024')}
```

Description

Calls the of_UpdatePending function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_UpdatesPending** (*controlarray*, *pendingarray*)

Argument	Description
instancename	Instance name of n_cst_luw (the w_master default is inv_luw)
controlarray	PowerObject array containing the controls to be updated
pendingarray	PowerObject array into which the function places a list of controls that have pending updates (passed by reference)

Return value

Integer. Returns 1 if updates are pending, 0 if no updates are pending, and -1 if an error occurs.

Usage

For non-PFC DataWindows and DataStores, this function accesses the objects directly to determine whether there are pending updates. For PFC DataWindows and other self-updating objects, this function calls the object's of_UpdatesPending function, if implemented. To create additional update processing, extend the self-updating object's pfc_UpdatesPending event.

There is also a Protected version of this function, which is for internal use.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_UpdatesPending function (n_cst_luw)

This example is from the w_master pfc_UpdatesPendingRef event:

```
...

If IsValid(inv_luw) Then
        li_rc = inv_luw.of_UpdatesPending(apo_control,  &
                 lpo_pending)
        apo_pending = lpo_pending
        Return li_rc
End If
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

of_Validation function (n_cst_luw)

```
{button Object,JI(`>main',`ccjcehca')} {button
Examples,JI(`>Examples',`id_pfcoref_3026')}
```

Description

Calls the of_Validation function (if implemented) for all passed controls.

Access

Public

Syntax

instancename.**of_Validation** (*controlarray*)

Argument	Description
instancename	Instance name of n_cst_luw (the w_master default is inv_luw)
controlarray	PowerObject array containing controls to be validated

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

For non-PFC DataWindows and DataStores, this function calls the ue_validation function, which you can optionally implement in these controls. For PFC DataWindows and other self-updating objects, this function calls the object's of_Validation function, if implemented. To create additional update processing, extend the self-updating object's pfc_Validation event

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_Validation function (n_cst_luw)

This example is from the w_master pfc_Validation event:

```
...

If IsValid(inv_luw) Then
        Return inv_luw.of_Validation(apo_control)
End If
...
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

n_cst_lvsrv

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3029')}
{button Functions,JI(`>list_win',`id_pfcoref_3031')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3030')} {button
Descendants,JI(`>list_win',`id_pfcoref_3028')}
```

Description

ListView base service.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_ds

u_lvs

Usage

To use this service:

1 Enable the service by calling the u_lvs of_SetBase function:

```
lv_1.of_SetBase(TRUE)
```

2 Populate the ListView.

3 Call n_cst_lvsrv functions as needed.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

n_cst_lvsrv

n_cst_lvsrv_datasource

n_cst_lvsrv_sort

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

n_cst_lvsrv

u_lvs

u_tvs

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

n_cst_lvsrv

{button Functions,JI(`>list_win',`id_pfcoref_3031')}

N_cst_lvsrv includes instance variables:

Instance variable	Description	Data type	Access	Usage
is_displayitem	Controls message text displayed for a single row	String	Protected	Call of_SetDisplayItem and of_GetDisplayItem to access
is_displayunits	Controls message text displayed for multiple rows	String	Protected	Call of_SetDisplayUnits and of_GetDisplayUnits to access
ilv_requestor	ListView control that owns the n_cst_lvsrv instance	u_lvs	Protected	Used to access and control the associated ListView control

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

n_cst_lvsrv

{button Instance variables,JI(`>list_win',`id_pfcoref_3030')}

of_FindNext function

of_FindSelected function

of_GetDisplayItem function

of_GetDisplayUnits function

of_SetDisplayItem function

of_SetDisplayUnits function

of_SetRequestor function

N_cst_lvsrv includes precoded functions:

of_FindNext
of_FindSelected
of_GetDisplayItem
of_GetDisplayUnits
of_SetDisplayItem
of_SetDisplayUnits
of_SetRequestor

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_FindNext function (n_cst_lvsrv)

{button Object,JI(`>main',`ccjddgbf')} {button Examples,JI(`>Examples',`id_pfcoref_3033')}

Description

Searches for the next item relative to a specific location in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_FindNext** (*startindex*, *direction*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control

instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
startindex	Integer specifying the index number from which you want your search to begin
direction	Direction enumerated data type specifying the search direction: DirectionAll! DirectionUp! DirectionDown! DirectionLeft! DirectionRight!

Return value

Integer. Returns the index of the item found if the function succeeds and -1 if an error occurs.

Usage

If you want to search from the beginning, specify 0 for *startindex*.

This function does not select the item it finds. Use the item's Selected property in conjunction with this function to select the resulting match.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_FindNext function (n_cst_lvsrv)

This example calls the of_FindNext function:

```
listviewitem    l_lvi

integer         li_index li_startindex

li_startindex = lv_list.SelectedIndex( )
lv_list.inv_base.of_FindNext(li_startindex,  &
   DirectionDown!)
IF li_index = -1 THEN
        MessageBox("Error", "Item not found.")
ELSE
        lv_list.GetItem (li_index, l_lvi )
        l_lvi.HasFocus = TRUE
        l_lvi.Selected = TRUE
        lv_list.SetItem(li_index,l_lvi)
END IF
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_FindSelected function (n_cst_lvsrv)

```
{button Object,JI(`>main',`ccjddgbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3035')}
```

Description

Searches for the next ListView item that is selected.

Access

Public

Syntax

lvcontrol.instancename.**of_FindSelected** (*startindex*, *direction*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
startindex	Integer specifying the index number from which you want your search to begin
direction	Direction enumerated data type specifying the search direction: DirectionAll! DirectionUp! DirectionDown! DirectionLeft! DirectionRight!

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you want to search from the beginning, specify 0 for *startindex*.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_FindSelected function (n_cst_lvsrv)

This example calls the of_FindSelected function:

```
...

lv_list.inv_base.of_FindSelected(0,  &
   DirectionDown!)
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_GetDisplayItem function (n_cst_lvsrv)

```
{button Object,JI(`>main',`ccjddgbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3037')}
```

Description

Retrieves the display name for single items in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetDisplayItem** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)

Return value

String. Returns the display name for single items in the ListView.

Usage

PFC uses this name in message text when confirming single-item deletion. For example, if this name is *this row*, PFC displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_GetDisplayItem function (n_cst_lvsrv)

This example calls the of_GetDisplayItem function:

```
String     ls_item


ls_item = lv_1.inv_base.of_GetDisplayItem( )
MessageBox("ListView", "Item label is: " &
        + ls_item)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_GetDisplayUnits function (n_cst_lvsrv)

```
{button Object,JI(`>main',`ccjddgbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3039')}
```

Description

Retrieves the display name for multiple rows in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetDisplayUnits** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)

Return value

String. Returns the display name for multiple items in the ListView.

Usage

PFC uses this name in message text when confirming multiple item deletion. For example, if this name is *rows*, PFC displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_GetDisplayUnits function (n_cst_lvsrv)

This example calls the of_GetDisplayUnits function:

```
String     ls_units
```

```
ls_units = lv_1.inv_base.of_GetDisplayUnits( )
MessageBox("ListView", "Unit label is: " &
        + ls_units)
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetDisplayItem function (n_cst_lvsrv)

{button Object,JI(`>main',`ccjddgbf')} {button Examples,JI(`>Examples',`id_pfcoref_3041')}

Description

Specifies the display name for single items in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_SetDisplayItem** (*itemname*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
itemname	String specifying the display name for single items in the ListView

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC uses this name in message text when confirming single-row deletion. For example, if you specify *this row*, PFC displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetDisplayItem function (n_cst_lvsrv)

This example calls the of_SetDisplayItem function:

```
...

lv_1.inv_base.of_SetDisplayItem("the selected row")
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetDisplayUnits function (n_cst_lvsrv)

{button Object,JI(`>main',`ccjddgbf')} {button Examples,JI(`>Examples',`id_pfcoref_3043')}

Description

Specifies the display name for multiple items in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_SetDisplayUnits** (*units*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
units	String specifying the display name for multiple rows of the ListView

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC uses this name in message text when confirming multiple item deletion. For example, if this name is *rows*, PFC displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetDisplayUnits function (n_cst_lvsrv)

This example calls the of_SetDisplayUnits function:

```
...

lv_1.inv_base.of_SetDisplayUnits("selected rows")
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetRequestor function (n_cst_lvsrv)

```
{button Object,JI(`>main',`ccjddgbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3045')}
```

Description

Associates the requesting object with this instance of n_cst_lvsrv.

Access

Public

Syntax

lvcontrol.instancename.**of_SetRequestor** (*requestor*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
requestor	U_lvs-based ListView control to be associated with the service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an

ePub or Kindle eBook

of_SetRequestor function (n_cst_lvsrv)

This example is from the u_lvs_of_SetBase function:

```
...

if ab_Switch then
        if IsNull(inv_base) Or not IsValid (inv_base) then
                inv_base = create n_cst_lvsrv
                inv_base.of_SetRequestor(this)
                li_rc = 1
        end if
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

n_cst_lvsrv_datasource

```
{button Ancestor,JI(`>main',`ccjddgbf')} {button See also,PI(`',`id_pfcoref_3047')}
{button Functions,JI(`>list_win',`id_pfcoref_3071')} {button
Events,JI(`>list_win',`id_pfcoref_3049')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3048')}
```

Description

ListView data access object. Use this object to display data in a u_lvs control and perform actions on that data. This data can come from a:

SQL statement

DataWindow object

DataStore

DataWindow control

PowerObject

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dwcache

n_cst_columnattrib

n_cst_lvsrvattrib

n_ds

n_tr

Usage

To use this object:

1 Enable the service using the u_lvs of_SetDataSource function:

```
this.of_SetDataSource(TRUE)
```

2 Define a data source by calling the of_Register function:

```
this.inv_datasource.of_Register("emp_lname",  &

                "d_emplist", SQLCA)
```

3 Call additional functions to control ListView behavior:

```
this.inv_datasource.of_RegisterReportColumn()

this.inv_datasource.of_SetPictureColumn("1")
```

4 Populate the ListView by calling the u_lvs pfc_Populate event:

```
this.Event pfc_Populate()
```

5 Extend the u_lvs pfc_Retrieve event to retrieve rows:

```
Any  la_args[20]

n_ds  lds_data

la_args[1] = "windows"    // Retrieval argument
this.of_Retrieve(la_args, lds_data)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

n_cst_lvsrv_datasource

n_cst_lvsrv_sort

n_cst_tvsrv_levelsource

u_lvs

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

n_cst_lvsrv_datasource

{button Functions,JI(`>list_win',`id_pfcoref_3071')} {button Events,JI(`>list_win',`id_pfcoref_3049')}

N_cst_lvsrv_datasource includes instance variables:

Instance variable	Description	Data type	Access	Usage
CACHE_ID	Constant set to "pfc listview"	String	Public	Internal
ib_confirmondelete	Indicates whether confirm on delete is enabled	Boolean	Protected	Set with of_SetConfirmOnDelete
ib_isrefreshing	Indicates whether a refresh is occurring	Boolean	Protected	Internal
ib_isundoing	Indicates whether an undo is occurring	Boolean	Protected	Internal
ib_undo	Indicates whether undo is supported	Boolean	Protected	Set with of_SetUndo
il_undodeletehandle[ ]	Deleted items	Long	Protected	Internal
il_undoedithandle	Modified items	Long	Protected	Internal

il_undoinserthandle	Last inserted item	Long	Protected	Internal
ilvi_undodeleteitem[ ]	Deleted items	ListViewItem	Protected	Internal
inv_cache	Cached data	n_cst_dwcache	Protected	Internal
is_dataobject	DataWindow object used to populate the ListView	String	Protected	Set with of_Register
is_pfckey	Key value	String	Protected	Internal
is_undoeditlabeltext	Modified label text	String	Protected	Internal
is_undotype	Undo type	String	Protected	Internal
inv_attrib	ListView attributes	n_cst_lvsrvattrib	Protected	Set with of_Register
inv_colattrib[ ]	Column attributes	n_cst_columnattrib	Protected	Set with of_ RegisterReportColumn
UNDO_DELETE	Constant set to "Delete"	String	Public	Internal
UNDO_EDIT	Constant set to "Edit"	String	Public	Internal
UNDO_INSERT	Constant set to "Insert"	String	Public	Internal

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

n_cst_lvsrv_datasource

{button Functions,JI(`>list_win',`id_pfcoref_3071')} {button Instance variables,JI(`>list_win',`id_pfcoref_3048')}

Constructor event

Destructor event

pfc_DeleteItem event

pfc_EndLabelEdit event

pfc_InsertItem event

pfc_Refresh event

pfc_RefreshItem event

pfc_SetItemAttributes event

pfc_Undo event

pfc_UndoDelete event

pfc_UndoEdit event

pfc_UndoInsert event

N_cst_lvsrv_datasource includes precoded events:

Constructor	pfc_RefreshItem
Destructor	pfc_SetItemAttributes
pfc_DeleteItem	pfc_Undo
pfc_EndLabelEdit	pfc_UndoDelete
pfc_InsertItem	pfc_UndoEdit
pfc_Refresh	pfc_UndoInsert

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

Constructor event (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')}

Description

Enables the caching service.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

Destructor event (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')}

Description

Destroys the caching service.

Usage

This event executes when the object is Destroyed.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

pfc_DeleteItem event (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3053')}

Description

Deletes a row from the DataStore.

Syntax

*lvcontrol.instancename.*EVENT **pfc_DeleteItem** (*index*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)
index	Integer specifying the position of the ListView item to delete

Return value

Integer. Returns 1 if the event succeeds and 0 if no action is taken.

Usage

This event does not remove the row from the database. To remove the row from the database, call the PowerScript Update function.

To get a reference to the DataStore, call of_GetAttributes and use the ids_source instance variable in the returned n_cst_lvsrvattrib instance.

This event does not perform processing if refreshing, resetting, or undoing an insert.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_DeleteItem event (n_cst_lvsrv_datasource)

This example is from the u_lvs DeleteItem event:

```
...

If isvalid(inv_datasource) then
        inv_datasource.event pfc_DeleteItem(index)
...
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

pfc_EndLabelEdit event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3055')}
```

Description

Change the label column in the associated data source.

Syntax

*lvcontrol.instancename.*EVENT **pfc_EndLabelEdit** (*index*, *newlabel*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)
index	Integer specifying the index of the modified ListView item
newlabel	String specifying the updated label

Return value

Integer. Returns 0 if the label update is allowed and 1 if PowerBuilder should prevent the label update.

Usage

PFC allows label update only when the associated label column is updatable. If the label column is a computed column, you must override this event to update the computed column and return a 0.

This event does not update the database.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

pfc_EndLabelEdit event (n_cst_lvsrv_datasource)

This example is from the u_lvs EndLabelEdit event:

```
...

If IsValid(inv_datasource) Then
        li_rc = inv_datasource.event pfc_EndLabelEdit  &
      (index, newlabel)
        If li_rc < 1 then Return 1
End If
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

pfc_InsertItem event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3057')}
```

Description

Inserts a new item into the ListView.

Syntax

lvcontrol.instancename.EVENT **pfc_InsertItem** (*datastore*, *row*, *lvitem*, *position*, *index*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_lvsrv_datasource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_lvsrv_datasource. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the item to be inserted. This argument is accessed through the *al_row*argument
lvitem	ListViewItem containing the item to be inserted. This argument is accessed through the *alvi_item* argument
position	String specifying the position in which to insert the new item Values are: • First • Last • Sort • After If you specify After, you must also specify *index* This argument is accessed through the *as_position* argument
index	Integer containing the index to the ListView item before the new item. The function uses this argument if you specify After for *position*. This argument is accessed through the *ai_item* argument

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Usage

This event calls the of_InsertItem function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

pfc_InsertItem event (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_InsertItem event:

. . .

```
Return inv_datasource.event pfc_InsertItem &
 (ads_source, al_row, llvi_new, as_position, ai_index)
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

pfc_Refresh event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3059')}
```

Description

Refreshes the ListView items with data from the data source.

Return value

Integer. Returns the number of items refreshed if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

pfc_Refresh event (n_cst_lvsrv_datasource)

This example is from the u_lvs Refresh event:

```
If isvalid(inv_datasource) then

        Return inv_datasource.event pfc_Refresh()
End If
...
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

pfc_RefreshItem event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3061')}
```

Description

Refreshes the specified ListView item, resetting all properties to the defaults specified in the data source.

Syntax

*lvcontrol.instancename.*EVENT **pfc_RefreshItem** (*index*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)
index	Integer specifying the ListView index of the item to refresh

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

pfc_RefreshItem event (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_RefreshItem event:

```
If isvalid(inv_datasource) then

        Return inv_datasource.event pfc_RefreshItem  &
      (ai_index)
End If
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

pfc_SetItemAttributes event (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')}

Description

Sets default properties for the ListView item before insertion.

Syntax

lvcontrol.instancename.EVENT **pfc_SetItemAttributes** (*data*, *row*, *lvitem*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)
data	N_ds containing the data for the item. This argument is accessed through the *ads_obj* argument
row	Long specifying the row containing the item. This argument is accessed through the *al_row*argument
lvitem	ListViewItem to be inserted. This argument is accessed through the *alvi_item* argument (passed by reference)

Usage

This event calls the of_SetItemAttributes function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

pfc_Undo event (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3064')}

Description

Restores the last ListView change.

Syntax

*lvcontrol.instancename.*EVENT **pfc_Undo** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

pfc_Undo event (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_Undo event:

```
...

if isvalid(inv_datasource) then
        li_rc = inv_datasource.event pfc_Undo()
end if
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

pfc_UndoDelete event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3066')}
```

Description

Restores the last deleted item (or items if multiple items were deleted at once).

Syntax

*lvcontrol.instancename.*EVENT **pfc_UndoDelete** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

pfc_UndoDelete event (n_cst_lvsrv_datasource)

This example is from the pfc_Undo event:

```
...

Choose Case ls_UndoType
        Case UNDO_DELETE
               return this.event pfc_UndoDelete()
        Case UNDO_INSERT
               return this.event pfc_UndoInsert()
        Case UNDO_EDIT
               return this.event pfc_UndoEdit()
        End Choose
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_UndoEdit event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3068')}
```

Description

Restores a label's previous value.

Syntax

*lvcontrol.instancename.*EVENT **pfc_UndoEdit** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is inv_datasource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

pfc_UndoEdit event (n_cst_lvsrv_datasource)

This example is from the pfc_Undo event:

```
...

Choose Case ls_UndoType
        Case UNDO_DELETE
               return this.event pfc_UndoDelete()
        Case UNDO_INSERT
               return this.event pfc_UndoInsert()
        Case UNDO_EDIT
               return this.event pfc_UndoEdit()
        End Choose
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

pfc_UndoInsert event (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3070')}
```

Description

Removes the last inserted item.

Syntax

*lvcontrol.instancename.*EVENT **pfc_UndoInsert** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this value is

inv_datasource)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

pfc_UndoInsert event (n_cst_lvsrv_datasource)

This example is from the pfc_Undo event:

```
...

Choose Case ls_UndoType
        Case UNDO_DELETE
               return this.event pfc_UndoDelete()
        Case UNDO_INSERT
               return this.event pfc_UndoInsert()
        Case UNDO_EDIT
               return this.event pfc_UndoEdit()
        End Choose
...
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

n_cst_lvsrv_datasource

{button Events,JI(`>list_win',`id_pfcoref_3049')} {button Instance variables,JI(`>list_win',`id_pfcoref_3048')}

of_CanUndo function

of_ClearUndo function

of_ConfirmDelete function

of_ConfirmOnDelete function

of_ConvertToRow function

of_DecodeKey function

of_DeleteItem function

of_EncodeKey function

of_FormatData function

of_GetAttributes function

of_GetColumnInfo function

of_GetDataObject function

of_GetDataRow function

of_GetDataSource function

of_GetIndex function

of_GetLabelColumn function

of_GetMethod function

of_GetOverlayPictureColumn function

of_GetPictureColumn function

of_GetStatePictureColumn function

of_GetTransObject function

of_GetXPosColumn function

of_GetYPosColumn function

of_InsertItem function

of_IsConfirmOnDelete function

of_Refresh function

of_Register function

of_RegisterDataSource function

of_RegisterReportColumn function

of_Reset function

of_ResetList function

of_ResetUpdate function

of_Retrieve function

of_SetCache function

of_SetConfirmOnDelete function

of_SetItemAttributes function

of_SetOverlayPictureColumn function

of_SetPictureColumn function

of_SetStatePictureColumn function

of_SetUndo function

of_SetXPosColumn function

of_SetYPosColumn function

of_UnRegister function

of_UnRegisterReportColumn function

of_Update function

N_cst_lvsrv_datasource includes precoded functions:

of_CanUndo
of_ClearUndo
of_ConfirmDelete
of_ConfirmOnDelete
of_ConvertToRow
of_DecodeKey
of_DeleteItem
of_EncodeKey
of_FormatData
of_GetAttributes
of_GetColumnInfo
of_GetDataObject
of_GetDataRow
of_GetDataSource
of_GetIndex
of_GetLabelColumn
of_GetMethod
of_GetOverlayPictureColumn
of_GetPictureColumn
of_GetStatePictureColumn
of_InsertItem
of_IsConfirmOnDelete
of_Refresh
of_Register
of_RegisterDataSource
of_RegisterReportColumn
of_Reset
of_ResetList
of_ResetUpdate
of_Retrieve
of_SetCache
of_SetConfirmOnDelete
of_SetItemAttributes
of_SetOverlayPictureColumn
of_SetPictureColumn
of_SetStatePictureColumn
of_SetUndo
of_SetXPosColumn
of_SetYPosColumn
of_UnRegister

of_GetTransObject
of_GetXPosColumn
of_GetYPosColumn
of_UnRegisterReportColumn
of_Update

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_CanUndo function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3073')}

Description

Reports whether the ListView can undo the last edit, insertion, or deletion, optionally returning the operation type.

Access

Public

Syntax

lvcontrol.instancename.**of_CanUndo** ({ *undotype* })

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
undotype (optional)	String into which the function places the type of the last operation (passed by reference). Values are: • **UNDO_EDIT or "Edit"** Edit • **UNDO_INSERT or "Insert"** Insertion • **UNDO_DELETE or "Delete"** Deletion

Return value

Boolean. Returns TRUE if the last operation can be undone and FALSE if it cannot.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_CanUndo function (n_cst_lvsrv_datasource)

This example calls the of_CanUndo function:

```
IF lv_1.inv_datasource.of_CanUndo() THEN

   MessageBox("ListView", "Can undo")
ELSE
   MessageBox("ListView", "Cannot undo")
END IF
```

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_ClearUndo function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3075')}
```

Description

Clears the ListView's undo properties.

Access

Protected

Syntax

lvcontrol.instancename.**of_ClearUndo** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_ClearUndo function (n_cst_lvsrv_datasource)

This example is from the of_Refresh function:

```
...

this.of_ClearUndo()
...
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_ConfirmDelete function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3077')}
```

Description

Displays a message box allowing the user to confirm a deletion.

Access

Public

Syntax

lvcontrol.instancename.**of_ConfirmDelete** (*amount*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

amount	Long specifying the number of rows to be deleted

Return value

Integer. Returns 1 if deletion should proceed, 2 if deletions should not proceed, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_ConfirmDelete function (n_cst_lvsrv_datasource)

This example is from the n_cst_lvsrv_datasource of_DeleteItem function:

```
...

li_confirm = inv_datasource.of_ConfirmDelete(1)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_ConfirmOnDelete function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3079')}
```

Description

Reports whether a confirmation dialog box displays when the user deletes a row.

Access

Protected

Syntax

lvcontrol.instancename.**of_ConfirmOnDelete** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Boolean. Returns TRUE if confirm on delete is enabled and FALSE if it is disabled.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_ConfirmOnDelete function (n_cst_lvsrv_datasource)

This example is from the n_cst_lvsrv_datasource of_DeleteItem function:

```
...

if of_ConfirmOnDelete() then
        If li_totalitems = 1 then

...
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_ConvertToRow function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3081')}
```

Description

Converts an array of data into a row in the DataStore.

Access

Public

Syntax

lvcontrol.instancename.**of_ConvertToRow** (*colvalues*, *datastore*, *row*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
colvalues	Any array containing the data to be used for the new row
datastore	N_ds instance into which the function places the new row (passed by reference)
row	Long into which the function places the new row number (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_ConvertToRow function (n_cst_lvsrv_datasource)

This example is from the u_lvs of_InsertItem function:

```
...

If inv_datasource.of_ConvertToRow  &
  (aa_columnvalues, lds_datastore, ll_row) <> 1 Then
...
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_DecodeKey function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3083')}
```

Description

Retrieves the decoded key from the ListView item's data attribute.

Access

Public

Syntax

lvcontrol.instancename.**of_DecodeKey** (*data*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
data	String containing the ListView item's data attribute

Return value

String. Returns the unique key if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_DecodeKey function (n_cst_lvsrv_datasource)

This example is from the pfc_UndoDelete event:

```
...

ls_undokey = of_DecodeKey(string(ltvi_undo.data))
...
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_DeleteItem function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3085')}
```

Description

Removes either the specified item or all selected items from a ListView and the associated DataStore.

Access

Public

Syntax

lvcontrol.instancename.**of_DeleteItem** ({ *index* })

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
index (optional)	Integer specifying the index of the item to be deleted

Return value

Integer. Returns 1 if the function succeeds, 0 if nothing was deleted, and -1 if an error occurs.

Usage

The pfc_DeleteItem event calls this function.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_DeleteItem function (n_cst_lvsrv_datasource)

This example is from the pfc_DeleteItem event:

```
...

return of_DeleteItem()
...
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_EncodeKey function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3087')}
```

Description

Creates an encoded key from the ListView item's data attribute. The service uses this key to access rows in the associated DataStore.

Access

Public

Syntax

lvcontrol.instancename.**of_EncodeKey** (*source*, *row*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
source	N_ds containing the DataStore to populate the item
row	Long specifying the row containing the item

Return value

String. Returns the unique key if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_EncodeKey function (n_cst_lvsrv_datasource)

This example is from the of_InsertItem function:

```
...

ls_key = of_EncodeKey(inv_attrib.ids_source, al_row)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_FormatData function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3089')}
```

Description

Converts DataWindow data from its native format to the string data type.

Access

Public

Syntax

lvcontrol.instancename.**of_FormatData** (*columnname*, *format*, *type*, *datastore*, *row*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
columnname	String specifying the column
format	String specifying the column's format
type	String specifying the column's data type
datastore	N_ds specifying the DataStore containing the data
row	Long specifying the row for which the function returns column data

Return value

String. Returns the specified row/column data as a formatted string.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_FormatData function (n_cst_lvsrv_datasource)

This example calls the of_FormatData function:

```
Integer  li_cols, li_cnt

String  ls_column, ls_label
...
li_cols = UpperBound(is_Columns)
FOR li_cnt = 1 TO li_cols
```

```
        ls_column = of_FormatData(is_columns[li_cnt], &
               is_colformat[li_cnt], is_coltype[li_cnt], &
                  ids_data, al_row)
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetAttributes function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3091')}
```

Description

Retrieves the properties used to populate the ListView's data source.

Access

Public

Syntax

lvcontrol.instancename.**of_GetAttributes** (*lvattrib*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
lvattrib	N_cst_lvsrvattrib into which the function places ListView properties (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and - if an error occurs.

Usage

Call this function to retrieve a reference to the DataStore and Transaction object for the data source.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_GetAttributes function (n_cst_lvsrv_datasource)

This example calls the of_GetAttributes function:

```
n_cst_lvsrvattrib  lnv_attrib


lv_1.Event pfc_DeleteItem()
lv_1.inv_datasource.of_Update(TRUE, TRUE)
lv_1.inv_datasource.of_GetAttributes  &
   (lnv_attrib)
IF Not IsNull(lnv_attrib.itr_obj) THEN
   lnv_attrib.itr_obj.of_Commit()
END IF
...
```

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_GetColumnInfo function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3093')}
```

Description

Retrieves column information from the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetColumnInfo** (*column*, *colattrib*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_base)
column	Integer specifying the column from the ListView
colattrib	N_cst_columnattrib into which the function places column information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Column information is used in detail view only.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_GetColumnInfo function (n_cst_lvsrv_datasource)

This example is from the n_cst_lvsrv_sort pfc_ColumnClick event:

```
...

of_GetColumnInfo(ai_column, lnv_colinfo)
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_GetDataObject function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3095')}
```

Description

Retrieves the DataWindow object used as the ListView's data source.

Access

Public

Syntax

lvcontrol.instancename.**of_GetDataObject** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the DataWindow object used to store data for display in the ListView.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetDataObject function (n_cst_lvsrv_datasource)

This example calls the of_GetDataObject function:

```
String    ls_dataobject


ls_dataobject = lv_1.inv_datasource.of_GetDataObject()
MessageBox("ListView", "DataWindow object is: "  &
   + ls_dataobject)
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_GetDataRow function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3097')}
```

Description

Retrieves from the DataStore the row that corresponds to the specified ListView item.

Access

Public

Syntax

lvcontrol.instancename.**of_GetDataRow** (*item*, *datasource*, *row*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
item	Integer specifying the index to the ListView item
datasource	N_ds specifying the DataStore that contains the row (passed by reference)
row	Long specifying the row in *datasource* that corresponds to *item* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use this function to update rows in the data source.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetDataRow function (n_cst_lvsrv_datasource)

This example is from the pfc_UndoEdit event:

```
...

If of_GetDataRow(li_undohandle, lds_DataStore,  &
   ll_Row) = -1 Then
       Return -1
End If
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_GetDataSource function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3099')}
```

Description

Retrieves the DataStore used as the source for the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetDataSource** (*source*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
source	N_ds instance into which the function places a reference to the DataStore used as the source for the ListView (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use *source* to access the ListView's internal data source.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetDataSource function (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_Refresh event:

```
...

inv_datasource.of_GetDataSource(lds_source)
return this.event pfc_AddAll(lds_source)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetIndex function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3101')}
```

Description

Retrieves the ListView item index for the specified row.

Access

Public

Syntax

lvcontrol.instancename.**of_GetIndex** (*row*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
row	Long specifying the DataStore row for which the function returns the ListView item index

Return value

Integer. Returns the index of the associated ListView item if the function succeeds, 0 if the item was not found, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_GetIndex function (n_cst_lvsrv_datasource)

This example calls the of_GetIndex function:

```
Integer  li_item


li_item = lv_1.inv_datasource.of_GetIndex(10)
MessageBox("ListView", "Row 10 is item: "  &
   + String(li_item)
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_GetLabelColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3103')}
```

Description

Retrieves the name of the column used as the ListView item label.

Access

Public

Syntax

lvcontrol.instancename.**of_GetLabelColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the data source column name.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetLabelColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetLabelColumn function:

```
String  ls_col


ls_col = lv_1.inv_datasource.of_GetLabelColumn()
MessageBox("ListView", "Label column is: " + ls_col)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_GetMethod function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3105')}
```

Description

Retrieves the method used to populate the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetMethod** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the method used to populate the ListView:

DataObjectData

DataStoreControl

DataWindowControl

ImportFile

PowerObject

Retrieve

SQL

Usage

The of_Register function controls the method used to populate the ListView.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_GetMethod function (n_cst_lvsrv_datasource)

This example calls the of_GetMethod function:

```
String  ls_method


ls_method = lv_1.inv_datasource.of_GetMethod()
MessageBox("ListView", "Method is: " + ls_method)
```

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_GetOverlayPictureColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3107')}
```

Description

Retrieves the name of the column that specifies the overlay picture.

Access

Public

Syntax

lvcontrol.instancename.**of_GetOverlayPictureColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the column that specifies the overlay picture.

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_GetOverlayPictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetOverlayPictureColumn function:

```
String  ls_column


ls_column =  &
```

```
    lv_1.inv_datasource.of_GetOverlayPictureColumn()
MessageBox("ListView", "Overlay is: " + ls_column)
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_GetPictureColumn function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3109')}

Description

Retrieves the name of the column that specifies the picture used in icon view.

Access

Public

Syntax

lvcontrol.instancename.**of_GetPictureColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the column that specifies the picture used in icon view.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetPictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetPictureColumn function:

```
String  ls_column


ls_column = lv_1.inv_datasource.of_GetPictureColumn()
MessageBox("ListView", "Picture is: " + ls_column)
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetStatePictureColumn function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3111')}

Description

Retrieves the name of the column that specifies the state picture.

Access

Public

Syntax

lvcontrol.instancename.**of_GetStatePictureColumn** ( )

Argument	Description

lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the column that specifies the state picture.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetStatePictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetStatePictureColumn function:

```
String  ls_column


ls_column =  &
   lv_1.inv_datasource.of_GetStatePictureColumn()
MessageBox("ListView", "State picture is: " +  &
   ls_column)
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetTransObject function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3113')}
```

Description

Retrieves the Transaction object used to display data in the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_GetTransObject** (*transaction*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
transaction	N_tr into which the function places a reference to the Transaction object used to display ListView data (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Register function specifies the Transaction object. Not all data sources require a Transaction object.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_GetTransObject function (n_cst_lvsrv_datasource)

This example calls the of_GetTransObject function:

```
n_tr  ltr_trans


lv_1.inv_datasource.of_GetTransObject(ltr_trans)
IF IsValid(ltr_trans) THEN
        ltr_trans.of_Commit()
END IF
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_GetXPosColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3115')}
```

Description

Retrieves the name of the column that specifies the item's x coordinate.

Access

Public

Syntax

lvcontrol.instancename.**of_GetXPosColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the column that specifies the item's x coordinate.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetXPosColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetXPosColumn function:

```
String  ls_column


ls_column = lv_1.inv_datasource.of_GetXPosColumn()
MessageBox("ListView", "XPos column is: "  &
   + ls_column)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetYPosColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3117')}
```

Description

Retrieves the name of the column that specifies the item's y coordinate.

Access

Public

Syntax

lvcontrol.instancename.**of_GetYPosColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

String. Returns the name of the column that specifies the item's y coordinate.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetYPosColumn function (n_cst_lvsrv_datasource)

This example calls the of_GetYPosColumn function:

```
String  ls_column


ls_column = lv_1.inv_datasource.of_GetYPosColumn()
MessageBox("ListView", "YPos column is: " &
   + ls_column)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_InsertItem function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3119')}
```

Description

Adds a new item to the ListView using a row from the data source.

Access

Public

Syntax

lvcontrol.instancename.**of_InsertItem** (*datastore*, *row*, *lvitem*, *position*, *item*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
datastore	N_ds containing the data for the new item. This can be either the DataStore

	maintained by n_cst_lvsrv_datasource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_lvsrv_datasource
row	Long specifying the row containing the new item
lvitem	ListViewItem containing the item to be added to the ListView
position	String specifying the position under the current parent in which to insert the new item. Values are: • First • Last • Before • After
item	Integer containing an index relative to the current position. The function uses this argument if you specify Before or After for *position*

Return value

Integer. Returns the index of the new item if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_InsertItem function (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_InsertItem event:

```
...

If isvalid(inv_datasource) then
        Return inv_datasource.of_InsertItem(ads_source,  &
      al_row, llvi_new, as_position, ai_index)
End If
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_IsConfirmOnDelete function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3121')}
```

Description

Reports whether deletions are confirmed.

Access

Public

Syntax

lvcontrol.instancename.**of_IsConfirmOnDelete** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Boolean. Returns TRUE if deletions are confirmed and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_IsConfirmOnDelete function (n_cst_lvsrv_datasource)

This example calls the of_IsConfirmOnDelete function:

```
IF lv_1.inv_datasource.of_IsConfirmOnDelete() THEN

   MessageBox("ListView", "Confirm enabled")
ELSE
   MessageBox("ListView", "Confirm disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_Refresh function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3123')}
```

Description

Updates the ListView with items from the data source.

Access

Public

Syntax

lvcontrol.instancename.**of_Refresh** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_Refresh function (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_Refresh event:

```
...

If inv_datasource.of_Refresh() < 1 Then
       Return -1
        End If
...
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_Register function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')}

Registers a data source for the ListView control. There are six syntaxes:

To	Use
Display data retrieved via a DataWindow object	Syntax 1
Display data retrieved via a SQL statement	Syntax 2
Display data from a DataWindow control	Syntax 3
Display data from a DataStore	Syntax 4
Display passed data	Syntax 5
Display data from a file	Syntax 6

Another version of of_Register There is also an undocumented version of of_Register that is for internal use.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

Syntax 1 To display data retrieved via a DataWindow object

Syntax 1 To display data retrieved via a DataWindow object

{button Examples,JI(`>Examples',`id_pfcoref_3126')}

Description

Establishes a ListView data source by retrieving rows using the specified DataWindow object.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *dwobject* {, *trans* })

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the *dwobject* column that u_lvs uses for ListView item labels
dwobject	String specifying the DataWindow object used to retrieve data
trans (optional)	N_tr Transaction object used to retrieve rows for *dwobject* If you do not specify this argument, *dwobject* must have been saved with the data

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** *dwobject* had no key columns assigned

- **-3** *dwobject* was not provided
- **-4** A specified key column did not exist
- **-5** SetTransObject failed
- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

Syntax 1 To display data retrieved via a DataWindow object

This example calls the of_Register function:

```
this.of_SetDataSource(TRUE)

this.inv_datasource.of_Register("emp_lname",  &
        "d_emplist", SQLCA)
this.inv_datasource.of_SetConfirmOnDelete(TRUE)
this.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

Syntax 2 To display data retrieved via a SQL statement

Syntax 2 To display data retrieved via a SQL statement

```
{button Examples,JI(`>Examples',`id_pfcoref_3128')}
```

Description

Establishes a ListView data source by retrieving rows from the database using the specified SQL statement.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *trans*, *sql*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the column that u_lvs uses for ListView item labels
trans	N_tr Transaction object used to retrieve rows for *sql*
sql	String specifying the SQL SELECT statement used to create the ListView data source

Return value

Integer. Returns values as follows:

- **1** Success

- **-1** Argument validation error
- **-4** A specified key column did not exist
- **-5** SetTransObject failed
- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

Syntax 2 To display data retrieved via a SQL statement

This example calls the of_Register function:

```
String  ls_sql


this.of_SetDataSource(TRUE)
ls_sql = "Select * from employee;"
this.inv_datasource.of_Register("emp_lname",   &
        SQLCA, ls_sql)
this.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

Syntax 3 To display data from a DataWindow control

Syntax 3 To display data from a DataWindow control

```
{button Examples,JI(`>Examples',`id_pfcoref_3130')}
```

Description

Establishes a ListView data source using rows contained in the passed DataWindow control.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *dwcontrol*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the column that u_lvs uses for ListView item labels
dwcontrol	DataWindow control containing data to use in the ListView

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** The DataWindow object associated with *dwcontrol* had no key columns assigned

- **-3** *Dwcontrol* has no associated DataWindow object
- **-4** A specified key column did not exist
- **-5** SetTransObject failed
- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

Syntax 3 To display data from a DataWindow control

This example calls the of_Register function:

```
String  ls_sql


ls_key[1] = "emp_id"
lv_1.inv_datasource.of_Register("emp_lname", dw_1)
lv_1.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

Syntax 4 To display data from a DataStore

Syntax 4 To display data from a DataStore

```
{button Examples,JI(`>Examples',`id_pfcoref_3132')}
```

Description

Establishes a ListView data source using rows in the passed DataStore.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *datastore*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the column that u_lvs uses for ListView item labels
datastore	DataStore containing data to use in the ListView

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** The DataWindow object associated with *datastore* had no key columns assigned

- **-3** *Datastore* has no associated DataWindow object
- **-4** A specified key column did not exist
- **-5** SetTransObject failed
- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

Syntax 4 To display data from a DataStore

This example calls the of_Register function:

```
String  ls_sql


lv_1.inv_datasource.of_Register("emp_lname", ids_data)
lv_1.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

Syntax 5 To display passed data

Syntax 5 To display passed data

```
{button Examples,JI(`>Examples',`id_pfcoref_3134')}
```

Description

Establishes a ListView data source using passed data.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *dwobject*, *data*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the column that u_lvs uses for ListView item labels
dwobject	String specifying the DataWindow object whose columns correspond to *data*
data	PowerObject array containing the data to display in the ListView

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-4** A specified key column did not exist

- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Elements must match Errors will occur if the elements of the *data* structure do not exactly match the columns of *dwobject*.

The of_Refresh function does not affect data cached with this syntax.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

Syntax 5 To display passed data

This example calls the of_Register function:

```
Integer  li_rc, li_cnt

Long     ll_rowcount
// Object structure to contain data
os_powersource  lstr_powersource[ ]

ll_rowcount = dw_products.rowcount()
for li_cnt = 1 to ll_rowcount
        lstr_powersource[li_cnt] =  &
      dw_products.object.data[li_cnt]
end for
li_rc =  &
   lv_1.inv_datasource.of_Register("description",  &
      "d_products", lstr_powersource)
If li_rc > 0 Then
        li_rc =  &
                lv_1.inv_datasource.of_SetPictureColumn  &
                      ("picture_name")
End IF
lv_1.event pfc_populate()
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

Syntax 6 To display data from a file

Syntax 6 To display data from a file

`{button Examples,JI(`>Examples',`id_pfcoref_3136')}`

Description

Establishes a ListView data source using data from a file.

Access

Public

Syntax

lvcontrol.instancename.**of_Register** (*labelcolumn*, *dwobject*, *file*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
labelcolumn	String specifying the column that u_lvs uses for ListView item labels

dwobject	String specifying the DataWindow object whose columns correspond to the data in *file*
file	String specifying the file to be used as the ListView data source

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-4** A specified key column did not exist
- **-6** Caching error

Usage

Call this function before calling other functions that customize ListView display.

Elements must match Errors will occur if the elements of the lines in *filename* do not exactly match the columns of *dwobject*.

The of_Refresh function does not affect data cached with this syntax.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

Syntax 6 To display data from a file

This example calls the of_Register function:

```
Integer  li_rc


li_rc =  &
  lv_1.inv_datasource.of_Register("description",  &
      "d_products", "listview.txt")
If li_rc > 0 Then
        li_rc =  &
               lv_1.inv_datasource.of_SetPictureColumn  &
                      ("picture_name")
End IF
lv_1.event pfc_populate()
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_RegisterDataSource function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3138')}
```

Description

Registers the ListView data source with n_cst_dwcache, the PFC caching service.

Access

Protected

Syntax

lvcontrol.instancename.**of_RegisterDataSource** (*method*, *dwobject*, *trans*, *sql*, *data*, *dwcontrol*, *datastore*, *file*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
method	String specifying the data source population method. Values are: Retrieve DataObjectData PowerObject DataWindowControl DataStoreControl ImportFile SQL
dwobject	String specifying the DataWindow object used by the data source
trans	N_tr specifying the Transaction object used by the data source
sql	String specifying the SQL statement used as the data source
data	PowerObject array containing data used as the data source
dwcontrol	DataWindow control whose associated DataWindow object and data is used as the data source
datastore	DataStore whose associated DataWindow object and data is used as the data source
file	String specifying the file used as the data source

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_RegisterDataSource function (n_cst_lvsrv_datasource)

This example is from the of_Register function:

```
...

li_rc = of_RegisterDataSource(as_method,  &
  as_DWobjectname, atr_obj, &
    as_sql, apo_data, adw_control, ads_control,  &
      as_importfile)
If li_rc < 1 Then
        Return -6
End If
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_RegisterReportColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3140')}
```

Description

Adds one or all visible columns to the list of columns displayed in detail view.

Access

Public

Syntax

lvcontrol.instancename.**of_RegisterReportColumn** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns the number of columns added if the function succeeds and -1 if an error occurs.

Usage

Call this function after calling of_Register.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_RegisterReportColumn function (n_cst_lvsrv_datasource)

This example calls the of_RegisterReportColumn function:

```
Integer li_count


this.of_SetDataSource(TRUE)
this.inv_datasource.of_Register("emp_lname",  &
         "d_emplist", SQLCA)
li_count =  &
   this.inv_datasource.of_RegisterReportColumn()
MessageBox("ListView", String(li_count)  &
   + " columns added")
this.Event pfc_Populate()
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_Reset function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3142')}
```

Description

Clears all data from the data source.

Access

Public

Syntax

lvcontrol.instancename.**of_Reset** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_Reset function (n_cst_lvsrv_datasource)

This example is from the of_ResetList function:

```
...

this.of_Reset()
this.of_ClearUndo()
...
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_ResetList function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3144')}
```

Description

Clears data from the ListView and the associated data source.

Access

Public

Syntax

lvcontrol.instancename.**of_ResetList** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_ResetList function (n_cst_lvsrv_datasource)

This example calls the of_ResetList function:

```
lv_1.inv_datasource.of_ResetList()
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help

Authoring Tool

of_ResetUpdate function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3146')}

Description

Resets the update flags in the DataStore that contains ListView data.

Access

Public

Syntax

lvcontrol.instancename.**of_ResetUpdate** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_ResetUpdate function (n_cst_lvsrv_datasource)

This example calls the of_ResetUpdate function:

```
lv_1.inv_datasource.of_ResetUpdate()
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_Retrieve function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3148')}

Description

Retrieves ListView data from rows in the DataStore.

Access

Public

Syntax

lvcontrol.instancename.**of_Retrieve** (*arguments*, *data*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
arguments	Twenty-element Any array containing retrieval arguments
data	N_ds into which the function retrieves data (passed by reference)

Return value

Long. Returns the number of items retrieved if the function succeeds and -1 if an error occurs.

Usage

Specify retrieval arguments by extending the u_lvs pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_Retrieve function (n_cst_lvsrv_datasource)

This example is from the u_lvs of_Retrieve function:

```
...

If isvalid(inv_datasource) then
        Return = inv_datasource.of_Retrieve &
      (aa_args, ads_data)
End If
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_SetCache function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3150')}
```

Description

Enables or disables n_cst_dwcache.

Access

Protected

Syntax

lvcontrol.instancename.**of_SetCache** (*boolean*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
boolean	Boolean indicating whether to enable (TRUE) or disable (FALSE) n_cst_dwcache

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetCache function (n_cst_lvsrv_datasource)

This example is from the Constructor event:

```
of_SetCache(True)
```

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_SetConfirmOnDelete function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3152')}

Description

Specifies whether n_cst_lvsrv_datasource displays a confirmation dialog box when users delete items.

Access

Public

Syntax

lvcontrol.instancename.**of_SetConfirmOnDelete** (*boolean*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
boolean	Boolean specifying whether to display (TRUE) or not display (FALSE) a deletion confirmation dialog box

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_SetConfirmOnDelete function (n_cst_lvsrv_datasource)

This example calls the of_SetConfirmOnDelete function:

```
...

this.of_SetDataSource(TRUE)
ls_key[1] = "emp_id"
this.inv_datasource.of_Register("emp_lname",  &
   ls_key, "d_emplist", SQLCA)
this.inv_datasource.of_SetConfirmOnDelete(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetItemAttributes function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3154')}

Description

Sets ListView item default properties using data from the data source.

Access

Public

Syntax

lvcontrol.instancename.**of_SetItemAttributes** (*datastore*, *row*, *item*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
datastore	N_ds containing the DataStore used to create ListView item properties
row	Long specifying the row in *datastore* used to create ListView item properties
item	ListViewItem whose properties are to be set (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_SetItemAttributes function (n_cst_lvsrv_datasource)

This example is from the u_lvs pfc_SetItemAttributes event:

```
If isvalid(inv_datasource) then

        inv_datasource.of_SetItemAttributes(ads_obj, &
      al_row, alvi_item)
End If
...
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_SetOverlayPictureColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3156')}
```

Description

Specifies the name of the DataWindow object column that references the overlay picture.

Access

Public

Syntax

lvcontrol.instancename.**of_SetOverlayPictureColumn** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
column	String specifying one of the following: • The DataWindow object column that u_lvs uses for overlay pictures • A number, which causes u_lvs to use the ListView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetOverlayPictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_SetOverlayPictureColumn function:

```
lv_1.inv_datasource.of_SetOverlayPictureColumn("10")
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_SetPictureColumn function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3158')}

Description

Specifies the default picture for large icon and small icon views.

Access

Public

Syntax

lvcontrol.instancename.**of_SetPictureColumn** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
column	String specifying one of the following: • The DataWindow object column that u_lvs uses for pictures. This column can contain either a filename or a number, which causes u_lvs to use the ListView's picture index • A number, which causes u_lvs to use the ListView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetPictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_SetPictureColumn function:

```
...

this.inv_datasource.of_Register("emp_lname",  &
   ls_key, "d_emplist", SQLCA)
this.inv_datasource.of_SetPictureColumn("1")
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_SetStatePictureColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3160')}
```

Description

Specifies the name of the DataWindow object column that references the state picture.

Access

Public

Syntax

lvcontrol.instancename.**of_SetStatePictureColumn** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
column	String specifying one of the following: • The DataWindow object column that u_lvs uses for state pictures. This column can contain either a filename or a number, which causes u_lvs to use the ListView's picture index • A number, which causes u_lvs to use the ListView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetStatePictureColumn function (n_cst_lvsrv_datasource)

This example calls the of_SetStatePictureColumn function:

```
...

this.inv_datasource.of_Register("emp_lname",  &
   ls_key, "d_emplist", SQLCA)
this.inv_datasource.of_SetPictureColumn("1")
```

```
this.inv_datasource.of_SetStatePictureColumn("1")
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_SetUndo function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3162')}
```

Description

Specifies whether n_cst_lvsrv_datasource enables undo processing.

Access

Public

Syntax

lvcontrol.instancename.**of_SetUndo** (*boolean*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) undo capabilities

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_SetUndo function (n_cst_lvsrv_datasource)

This example calls the of_SetUndo function:

```
...

this.inv_datasource.of_SetUndo(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_SetXPosColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3164')}
```

Description

Specifies the DataWindow object column that u_lvs uses for the item's x coordinate.

Access

Public

Syntax

lvcontrol.instancename.**of_SetXPosColumn** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
column	String specifying the DataWindow object column that specifies the item's x coordinate

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function. This specification applies to large icon and small icon views only.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetXPosColumn function (n_cst_lvsrv_datasource)

This example calls the of_SetXPosColumn function:

```
lv_1.inv_datasource.of_SetXPosColumn("emp_xpos")
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetYPosColumn function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3166')}

Description

Specifies the DataWindow object column that u_lvs uses for the item's y coordinate.

Access

Public

Syntax

lvcontrol.instancename.**of_SetYPosColumn** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
column	String specifying the DataWindow object column that specifies the item's y coordinate

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function. This specification applies to large icon and small icon views only.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_SetYPosColumn function (n_cst_lvsrv_datasource)

This example calls the of_SetYPosColumn function:

```
lv_1.inv_datasource.of_SetYPosColumn("emp_ypos")
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_UnRegister function (n_cst_lvsrv_datasource)

{button Object,JI(`>main',`ccjbjecg')} {button Examples,JI(`>Examples',`id_pfcoref_3168')}

Description

Removes a data source.

Access

Public

Syntax

lvcontrol.instancename.**of_UnRegister** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default is inv_datasource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_UnRegister function (n_cst_lvsrv_datasource)

This example calls the of_UnRegister function:

```
...

lv_1.inv_datasource.of_UnRegister()
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_UnRegisterReportColumn function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3170')}
```

Description

Removes the specified column or all columns from the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_UnRegisterReportColumn** ({ *column* })

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv (the u_lvs default for this is inv_datasource)
column (optional)	Integer specifying the column index (the default is all columns)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you call this function for the first column, call of_Refresh to refresh the ListView.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_UnRegisterReportColumn function (n_cst_lvsrv_datasource)

This example calls the of_UnRegisterReportColumn function:

```
...

lv_1.inv_datasource.of_UnRegisterReportColumn(2)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_Update function (n_cst_lvsrv_datasource)

```
{button Object,JI(`>main',`ccjbjecg')} {button
Examples,JI(`>Examples',`id_pfcoref_3172')}
```

Description

Saves all rows in the DataStore associated with the ListView.

Access

Public

Syntax

lvcontrol.instancename.**of_Update** (*accept*, *resetflag*)

Argument	Description

lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_datasource (the u_lvs default for this is inv_datasource)
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_Update function (n_cst_lvsrv_datasource)

This example calls the of_Update function:

```
lv_1.inv_datasource.of_Update(TRUE, TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

n_cst_lvsrv_sort

{button Ancestor,JI(`>main',`ccjddgbf')} {button See also,PI(`',`id_pfcoref_3174')} {button Functions,JI(`>list_win',`id_pfcoref_3181')} {button Events,JI(`>list_win',`id_pfcoref_3176')} {button Instance variables,JI(`>list_win',`id_pfcoref_3175')}

Description

ListView sort service. ListView sorting applies to detail view only.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use this object:

1 Enable the service by calling the u_lvs of_SetSort function:

```
lv_1.of_SetSort(TRUE)
```

2 Specify whether to enable column header sorting by calling the of_SetColumnHeader function:

```
lv_1.inv_sort.of_SetColumnHeader(TRUE)
```

3 (Optional) Specify columns to exclude from sorting by calling the of_SetExclude function:

```
String  ls_exclude[ ]


ls_exclude[1] = "emp_phone_number"
lv_1.inv_sort.of_SetExclude(ls_exclude)
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

n_cst_lvsrv_sort

n_cst_lvsrv_datasource

u_lvs

Created with the Personal Edition of HelpNDoc: Free EPub producer

n_cst_lvsrv_sort

{button Functions,JI(`>list_win',`id_pfcoref_3181')} {button Events,JI(`>list_win',`id_pfcoref_3176')}

N_cst_lvsrv_sort includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_columnheadersort	Indicates whether column header sort is enabled	Boolean	Protected	Set with of_SetColumnHeader
ie_currentsort	Specifies current sort type	GRSortType	Protected	Internal
ii_currentsortcol	Specifies current sort column	Integer	Protected	Internal
is_excludecolumns[ ]	Columns for which sorting is disabled	String	Protected	Set with of_SetExclude

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

n_cst_lvsrv_sort

{button Functions,JI(`>list_win',`id_pfcoref_3181')} {button Instance variables,JI(`>list_win',`id_pfcoref_3175')}

pfc_ColumnClick event

pfc_Sort event

N_cst_lvsrv_sort includes precoded events:

pfc_ColumnClick

pfc_Sort

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

pfc_ColumnClick event (n_cst_lvsrv_sort)

{button Object,JI(`>main',`ccjddfdi')} {button Examples,JI(`>Examples',`id_pfcoref_3178')}

Description

Sorts items based on the column whose heading was clicked. If the column was already sorted, this event reverses the sort order.

Syntax

*lvcontrol.instancename.*EVENT **pfc_ColumnClick** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)
column	Integer indicating the column that was clicked

Return value

Integer. Returns 1 if the event succeeds, 0 if no action is taken, and -1 if an error occurs.

Usage

This event executes when the user clicks a column heading in detail view.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_ColumnClick event (n_cst_lvsrv_sort)

This example is from the u_lvs ColumnClick event:

```
...

If isvalid(inv_sort) then
        inv_sort.event pfc_columnclick(column)
End If
...
```

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

pfc_Sort event (n_cst_lvsrv_sort)

```
{button Object,JI(`>main',`ccjddfdi')} {button
Examples,JI(`>Examples',`id_pfcoref_3180')}
```

Description

Performs the sort comparison on the column whose heading was clicked.

Syntax

*lvcontrol.instancename.*EVENT **pfc_Sort** (*index1*, *index2*, *column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)
index1	Integer specifying the index of the first item being compared
index2	Integer specifying the index of the second item being compared
column	Integer specifying the number of the column containing the items to be sorted

Return value

Integer. Returns 1 if *index1* is greater than *index2*, 0 if they are equal, and -1 if *index1* is less than *index2*.

Usage

The u_lvs Sort event calls this event.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

pfc_Sort event (n_cst_lvsrv_sort)

This example is from the u_lvs Sort event:

```
Integer  li_rc


If isvalid(inv_sort) then
        li_rc = inv_sort.event pfc_sort(index1,  &
      index2, column)
End If
Return li_rc
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_cst_lvsrv_sort

{button Events,JI(`>list_win',`id_pfcoref_3176')} {button Instance variables,JI(`>list_win',`id_pfcoref_3175')}

of_GetExclude function

of_IsColumnHeader function

of_IsExclude function

of_SetColumnHeader function

of_SetExclude function

N_cst_lvsrv_sort includes precoded functions:

of_GetExclude
of_IsColumnHeader
of_IsExclude
of_SetColumnHeader
of_SetExclude

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_GetExclude function (n_cst_lvsrv_sort)

{button Object,JI(`>main',`ccjddfdi')} {button Examples,JI(`>Examples',`id_pfcoref_3183')}

Description

Retrieves the list of excluded columns.

Access

Public

Syntax

lvcontrol.instancename.**of_GetExclude** (*columns*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)
columns	String array into which the function places the list of excluded columns (passed by reference)

Return value

Integer. Returns the number of elements in the *columns* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_GetExclude function (n_cst_lvsrv_sort)

This example calls the of_GetExclude function:

```
String  ls_cols[ ]

Integer  li_count, li_return

lb_1.Reset()
li_return = lv_1.inv_sort.of_GetExclude(ls_cols)
FOR li_count = 1 to li_return
   lb_1.AddItem(ls_cols[li_count])
NEXT
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_IsColumnHeader function (n_cst_lvsrv_sort)

```
{button Object,JI(`>main',`ccjddfdi')} {button
Examples,JI(`>Examples',`id_pfcoref_3185')}
```

Description

Reports whether column header sorting is enabled.

Access

Public

Syntax

lvcontrol.instancename.**of_IsColumnHeader** ( )

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)

Return value

Boolean. Returns TRUE if column header sorting is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_IsColumnHeader function (n_cst_lvsrv_sort)

This example calls the of_IsColumnHeader function:

```
IF lv_1.inv_sort.of_IsColumnHeader() THEN

        MessageBox("ListView", "Sorting enabled")
ELSE
        MessageBox("ListView", "Sorting disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_IsExclude function (n_cst_lvsrv_sort)

```
{button Object,JI(`>main',`ccjddfdi')} {button
Examples,JI(`>Examples',`id_pfcoref_3187')}
```

Description

Reports whether a column is eligible for sorting.

Access

Public

Syntax

lvcontrol.instancename.**of_IsExclude** (*column*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)

column	Integer specifying the column number or string specifying the column name

Return value

Boolean. Returns TRUE if *column* is excluded and FALSE if it is included.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_IsExclude function (n_cst_lvsrv_sort)

This example calls the of_IsExclude function:

```
IF lv_1.inv_sort.of_IsExclude("emp_fname") THEN

        MessageBox("ListView", "Excluded")
ELSE
        MessageBox("ListView", "Included")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_SetColumnHeader function (n_cst_lvsrv_sort)

```
{button Object,JI(`>main',`ccjddfdi')} {button
Examples,JI(`>Examples',`id_pfcoref_3189')}
```

Description

Enables or disables column header sorting.

Access

Public

Syntax

lvcontrol.instancename.**of_SetColumnHeader** (*boolean*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) column header sorting

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetColumnHeader function (n_cst_lvsrv_sort)

This example calls the of_SetColumnHeader function:

```
this.of_SetSort(TRUE)
```

```
this.inv_sort.of_SetColumnHeader(TRUE)
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetExclude function (n_cst_lvsrv_sort)

```
{button Object,JI(`>main',`ccjddfdi')} {button
Examples,JI(`>Examples',`id_pfcoref_3191')}
```

Description

Specifies columns to be excluded from sorting.

Access

Public

Syntax

lvcontrol.instancename.**of_SetExclude** (*columns*)

Argument	Description
lvcontrol	Instance name of the u_lvs-based ListView control
instancename	Instance name of n_cst_lvsrv_sort (the u_lvs default for this value is inv_sort)
columns	String array containing columns to be excluded from sorting

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetExclude function (n_cst_lvsrv_sort)

This example calls the of_SetExclude function:

```
String  ls_exclude[ ]

this.of_SetSort(TRUE)
this.inv_sort.of_SetColumnHeader(TRUE)
ls_exclude[1] = "emp_phone_number"
this.inv_sort.of_SetExclude(ls_exclude)
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

n_cst_menu

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3193')}
{button Functions,JI(`>list_win',`id_pfcoref_3194')}
```

Description

Menu service object. The m_master of_SendMessage function, the preference service, and the w_toolbars dialog box use n_cst_menu functions to access menu and frame information.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Usage

To use this object:

1 Declare a variable of type n_cst_menu. Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements:

```
n_cst_menu  lnv_menu
```

2 Call n_cst_menu functions as needed (this example is from the m_master of_SendMessage function):

```
...

li_rc = lnv_menu.of_GetMDIframe(this, lw_frame)
IF NOT IsNull (lw_frame) AND &
            IsValid(lw_frame) THEN
       lb_frameexists = TRUE
END IF
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

n_cst_menu

m_master

n_cst_winsrv_preference

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

n_cst_menu

of_GetAllToolbarIndex function

of_GetMDIFrame function

of_GetMenuReference function

of_IsInArray function

of_SendMessage function

of_ToolbarExists function

of_TriggerEvent function

N_cst_menu contains object functions:

of_GetAllToolbarIndex
of_GetMDIFrame
of_GetMenuReference
of_IsInArray
of_SendMessage
of_ToolbarExists
of_TriggerEvent

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetAllToolbarIndex function (n_cst_menu)

{button Object,JI(`>main',`ccjbgfbf')} {button Examples,JI(`>Examples',`id_pfcoref_3196')}

Description

Retrieves an array containing all unique toolbar item index values.

Access

Public

Syntax

instancename.**of_GetAllToolbarIndex** (*menu, index*)

Argument	Description
instancename	Instance name of n_cst_menu
menu	Menu variable containing the menu whose toolbar index is returned
index	Integer array into which the function places all unique ToolbarItemBarIndex values (passed by reference)

Return value

Integer. Returns the size of the *index* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetAllToolbarIndex function (n_cst_menu)

This example calls the of_GetAllToolbarIndex function:

```
...

IF lnv_menu.of_GetAllToolbarIndex  &
        (iw_requestor.MenuId, li_barindexarray) < 0 THEN
       Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with

Encryption

of_GetMDIFrame function (n_cst_menu)

```
{button Object,JI(`>main',`ccjbgfbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3198')}
```

Description

Retrieves the MDI frame window.

Access

Public

Syntax

instancename.**of_GetMDIFrame** (*menu*, *frame*)

Argument	Description
instancename	Instance name of n_cst_menu
menu	Menu variable containing the menu for which to find the MDI frame
frame	Window variable into which the function places the frame window (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_GetMDIFrame function (n_cst_menu)

This example calls the of_GetMDIFrame function:

```
Integer  li_rc

Window   lw_obj
n_cst_menu  lnv_menu

lnv_menu.of_GetMDIFrame(iw_requestor.MenuID, lw_obj)
IF IsValid(lw_obj) THEN
        lw_obj.SetRedraw(FALSE)
ELSE
        iw_requestor.SetRedraw(False)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetMenuReference function (n_cst_menu)

```
{button Object,JI(`>main',`ccjbgfbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3200')}
```

Description

Retrieves a reference to the specified menu item.

Access

Public

Syntax

instancename.**of_GetMenuReference** (*menu*, *itemname*, *itemref*)

Argument	Description
instancename	Instance name of n_cst_menu
menu	Menu variable containing the menu for which to retrieve the menu item reference
itemname	String specifying the menu item name
itemref	Menu variable into which the function places a reference to the menu item (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if *itemname* is not found, and -1 if an error occurs.

Usage

Use the retrieved reference to control menu item properties.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetMenuReference function (n_cst_menu)

This example calls the of_GetMenuReference function:

```
n_cst_menu  lnv_menu

Menu  lm_item, lm_menu

lm_menu = parent.MenuID
lnv_menu.of_GetMenuReference  &
   (lm_menu, "m_save", lm_item)
lm_item.Enabled = FALSE
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_IsInArray function (n_cst_menu)

```
{button Object,JI(`>main',`ccjbgfbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3202')}
```

Description

Reports whether the specified ToolbarItemBarIndex is in the array.

Access

Protected

Syntax

instancename.**of_IsInArray** (*array*, *index*)

Argument	Description
instancename	Instance name of n_cst_menu
array	Integer array containing currently stored ToolbarItemBarIndex numbers
index	Integer specifying the ToolbarItemBarIndex to be tested

Return value

Boolean. Returns TRUE if *index* is in *array* and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_IsInArray function (n_cst_menu)

This example is from the of_GetAllToolbarIndex function.

```
...

IF Len(am_source.toolbaritemname) > 0 THEN
        IF NOT of_IsInArray(ai_barindex, &
              am_source.ToolbarItemBarIndex) THEN
        ai_barindex[UpperBound(ai_barindex)+1] &
          = am_source.ToolbarItemBarIndex
        END IF
END IF
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SendMessage function (n_cst_menu)

```
{button Object,JI(`>main',`ccjbgfbf')} {button
Examples,JI(`>Examples',`id_pfcoref_3204')}
```

Description

Sends the passed message to the current window through the pfc_MessageRouter event.

Access

Public

Syntax

instancename.**of_SendMessage** (*message*)

Argument	Description
instancename	Instance name of n_cst_menu
message	String specifying the user event to be triggered by the pfc_MessageRouter event

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC menu items call this function to trigger events on the associated window and window controls.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SendMessage function (n_cst_menu)

This example calls the of_SendMessage function:

```
n_cst_menu   lnv_menu


lnv_menu.of_SendMessage("pfc_Open")
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_ToolbarExists function (n_cst_menu)

{button Object,JI(`>main',`ccjbgfbf')} {button Examples,JI(`>Examples',`id_pfcoref_3206')}

Description

Reports whether the passed menu has a toolbar.

Access

Public

Syntax

instancename.**of_ToolbarExists** (*menu*)

Argument	Description
instancename	Instance name of n_cst_menu
menu	Menu variable containing the menu to be tested for the existence of a toolbar

Return value

Boolean. Returns TRUE if *menu* has a toolbar and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_ToolbarExists function (n_cst_menu)

This example is from the n_cst_preference of_Save function:

```
...

IF NOT lnv_menu.of_ToolBarExists &
        (iw_requestor.MenuId) THEN
        Return 1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_TriggerEvent function (n_cst_menu)

{button Object,JI(`>main',`ccjbgfbf')} {button Examples,JI(`>Examples',`id_pfcoref_3208')}

Description

Triggers the specified user event on the sheet associated with the passed menu.

Access

Public

Syntax

instancename.**of_TriggerEvent** (*menu*, *event*)

Argument	Description
instancename	Instance name of n_cst_menu
menu	Menu variable containing the menu for which to trigger the event
event	String specifying the user event to trigger

Return value

Integer. Returns 1 if the function succeeds and -1 if *event* does not exist has or no script.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_TriggerEvent function (n_cst_menu)

This example calls the of_TriggerEvent function:

```
n_cst_menu   lnv_menu

Integer      li_return

li_return = lnv_menu.of_TriggerEvent &
        (parent.menuid, "ue_options")
IF li_return = -1 THEN
        MessageBox("Menu", "Options not enabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

n_cst_metaclass

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3210')}
{button Functions,JI(`>list_win',`id_pfcoref_3211')}
```

Description

Metaclass service. This object contains functions that provide information on the functions, events, and variables defined within another object.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use this object:

1 Create a variable of type n_cst_metaclass.

Because PFC defines this object with the autoinstantiate option, there is no need to code CREATE or DESTROY statements.

2 Call n_cst_metaclass functions as needed:

```
boolean  lb_ancestor

n_cst_metaclass  lnv_metaclass
n_cst_conversion  lnv_conversion
classdefinition  lcd_obj

lcd_obj = findClassDefinition ("w_sheet")
lb_ancestor = lnv_metaclass.of_isAncestorClass  &
   (lcd_obj, "pfc_w_master")
if isNull (lb_ancestor) then
            messagebox ("MetaClass", "class not found")
else
            messagebox ("MetaClass",  &
       lnv_conversion.of_string (lb_ancestor))
end if
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

n_cst_metaclass

n_cst_luw

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

n_cst_metaclass

of_FindMatchingEvent function

of_FindMatchingVariable function

of_GetAncestorClasses function

of_IsAncestorClass function

of_IsEventDefined function

of_IsEventImplemented function

of_IsFunctionDefined function

N_cst_metaclass includes precoded functions:

of_FindMatchingEvent

of_IsEventDefined

of_FindMatchingVariable
of_GetAncestorClasses
of_IsAncestorClass
of_IsEventImplemented
of_IsFunctionDefined

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_FindMatchingEvent function (n_cst_metaclass)

{button Object,JI(`>main',`ccjbifcb')} {button Examples,JI(`>Examples',`id_pfcoref_3213')}

Description

Retrieves the script definition for a given object and event.

Access

Public

Syntax

instancename.**of_FindMatchingEvent** (*object*, *event*)

Argument	Description
instancename	Instance name of n_cst_metaclass
object	ClassDefinition specifying the object containing *event*
event	String specifying the event name

Return value

ScriptDefinition. Returns the script definition if the function succeeds and NULL if *event* cannot be found.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_FindMatchingEvent function (n_cst_metaclass)

This example calls the of_FindMatchingEvent function:

```
classdefinition  lcd_object


scriptdefinition  lscrd_object
n_cst_metaclass  lnv_metaclass

lcd_object = findClassDefinition ("pfc_u_dw")
lscrd_object = lnv_metaclass.of_findMatchingEvent  &
   (lcd_object, "pfc_update")
if isNull (lscrd_object) or not isValid  &
   (lscrd_object) then
      messagebox ("MetaClass",  &
        "Bad class or can't find event definition")
else
        messagebox ("MetaClass", lscrd_object.name)
end if
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_FindMatchingVariable function (n_cst_metaclass)

{button Object,JI(`>main',`ccjbifcb')} {button Examples,JI(`>Examples',`id_pfcoref_3215')}

Description

Retrieves the variable definition for a given object or script and variable.

Access

Public

Syntax

instancename.**of_FindMatchingVariable** (*classorscript*, *variable*)

Argument	Description
instancename	Instance name of n_cst_metaclass
classorscript	ClassDefinition of the object containing *variable* or ScriptDefinition of the script containing *variable*
variable	String specifying the variable name

Return value

VariableDefinition. Returns the variable definition if the function succeeds and NULL if an error occurs.

Usage

If you specify a ScriptDefinition as the first argument, the function looks for *variable* in both local variables and arguments.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_FindMatchingVariable function (n_cst_metaclass)

This example calls the of_FindMatchingVariable function:

```
string  ls_argtype[ ]


classdefinition  lcd_object
variabledefinition  lvrd_object
scriptdefinition  lscrd_object
n_cst_metaclass  lnv_metaclass

lcd_object = findClassDefinition("pfc_u_dw")
ls_argtype[1] = "Boolean"
ls_argtype[2] = "Boolean"
lscrd_object = lcd_object.findMatchingFunction  &
   ("of_Update", ls_argtype[ ])
if isNull (lscrd_object) or not isValid  &
   (lscrd_object) then
      messagebox ("", "can't find script definition")
end if
lvrd_object = lnv_metaclass.of_findMatchingVariable &
   (lscrd_object, "li_rc")
if not isValid (lvrd_object) or  &
  isNull (lvrd_object) then
      messagebox ("MetaClass",  &
       "scriptdefinition not valid or var not found")
else
        messagebox ("MetaClass", lvrd_object.name)
end if
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetAncestorClasses function (n_cst_metaclass)

```
{button Object,JI(`>main',`ccjbifcb')} {button
Examples,JI(`>Examples',`id_pfcoref_3217')}
```

Description

Retrieves all ancestor classes for a specified class.

Access

Public

Syntax

instancename.**of_GetAncestorClasses** (*sourceclass*, *ancestorclass*)

Argument	Description
instancename	Instance name of n_cst_metaclass
sourceclass	String or ClassDefinition specifying the class for which to retrieve ancestor classes
ancestorclass	ClassDefinition array into which the function places references to ancestor classes (passed by reference)

Return value

Integer. Returns the number of elements in the *ancestorclass* array if the function succeeds and -1 if an error occurs.

Usage

The elements in *ancestorclass* are ordered in ascending order (that is, element 1 contains the immediate ancestor and the upperbound contains the highest level ancestor).

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_GetAncestorClasses function (n_cst_metaclass)

This example calls the of_GetAncestorClasses function:

```
n_cst_metaclass  lnv_metaclass


classdefinition  lcd_ancestor[ ]
integer  li_ubound, li_cnt

lnv_metaclass.of_GetAncestorClasses  &
   ("w_sheet", lcd_ancestor[ ])
li_ubound = UpperBound (lcd_ancestor[ ])lb_1.reset()
for li_cnt = 1 to li_ubound
        lb_1.addItem (lcd_ancestor[li_cnt].name)
next
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_IsAncestorClass function (n_cst_metaclass)

```
{button Object,JI(`>main',`ccjbifcb')} {button
Examples,JI(`>Examples',`id_pfcoref_3219')}
```

Description

Reports whether a specified class is an ancestor of another specified class.

Access

Public

Syntax

instancename.**of_IsAncestorClass** (*sourceclass*, *ancestorclass*)

Argument	Description
instancename	Instance name of n_cst_metaclass
sourceclass	String or ClassDefinition containing the possible descendent class
ancestorclass	String containing the class that might be an ancestor of *sourceclass*

Return value

Boolean. Returns TRUE if *sourceclass* is a descendant of *ancestorclass* and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_IsAncestorClass function (n_cst_metaclass)

This example calls the of_IsAncestorClass function:

```
boolean  lb_ancestor

n_cst_metaclass  lnv_metaclass
n_cst_conversion  lnv_conversion
classdefinition  lcd_obj

lcd_obj = findClassDefinition ("w_sheet")
lb_ancestor = lnv_metaclass.of_isAncestorClass  &
   (lcd_obj, "pfc_w_master")
if isNull (lb_ancestor) then
        messagebox ("MetaClass", "class not found")
else
        messagebox ("MetaClass",  &
       lnv_conversion.of_string (lb_ancestor))
end if
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_IsEventDefined function (n_cst_metaclass)

```
{button Object,JI(`>main',`ccjbifcb')} {button
Examples,JI(`>Examples',`id_pfcoref_3221')}
```

Description

Reports whether the specified class contains the specified event.

Access

Public

Syntax

instancename.**of_IsEventDefined** (*class*, *event*)

Argument	Description
instancename	Instance name of n_cst_metaclass
class	String or ClassDefinition to be tested
event	String specifying the event

Return value

Boolean. Returns TRUE if *class* contains *event* and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_IsEventDefined function (n_cst_metaclass)

This example calls the of_IsEventDefined function:

```
boolean  lb_defined


n_cst_metaclass  lnv_metaclass
n_cst_conversion lnv_conversion
classdefinition  lcd_obj

lcd_obj = findClassDefinition ("pfc_n_ds")
lb_defined = lnv_metaclass.of_isEventDefined  &
   (lcd_obj, "of_accepttext")
if isNull (lb_defined) then
        messageBox ("MetaClass", "Class not found")
else
        messageBox ("MetaClass",   &
      lnv_conversion.of_string (lb_defined))
end if
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_IsEventImplemented function (n_cst_metaclass)

```
{button Object,JI(`>main',`ccjbifcb')} {button
Examples,JI(`>Examples',`id_pfcoref_3223')}
```

Description

Reports whether the specified class implements the specified event.

Access

Public

Syntax

instancename.**of_IsEventImplemented** (*class*, *event*)

Argument	Description
instancename	Instance name of n_cst_metaclass
class	String or ClassDefinition to be tested
event	String specifying the event

Return value

Boolean. Returns TRUE if *class* implements *event* and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_IsEventImplemented function (n_cst_metaclass)

This example calls the of_IsEventImplemented function:

```
boolean  lb_defined


n_cst_metaclass  lnv_metaclass
n_cst_conversion  lnv_conversion
classdefinition  lcd_obj

lcd_obj = findClassDefinition ("pfc_n_ds")
lb_defined = lnv_metaclass.of_isEventImplemented  &
   (lcd_obj, "destructor")
if isNull (lb_defined) then
        messageBox ("MetaClass", "class not found")
else
        messageBox ("MetaClass",  "Implemented = "  &
       + lnv_conversion.of_string (lb_defined))
end if
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_IsFunctionDefined function (n_cst_metaclass)

```
{button Object,JI(`>main',`ccjbifcb')} {button
Examples,JI(`>Examples',`id_pfcoref_3225')}
```

Description

Reports whether the specified class contains the specified function.

Access

Public

Syntax

instancename.**of_IsFunctionDefined** (*class*, *function*)

Argument	Description
instancename	Instance name of n_cst_metaclass
class	String or ClassDefinition to be tested
function	String specifying the function

Return value

Boolean. Returns TRUE if *class* contains *function* and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_IsFunctionDefined function (n_cst_metaclass)

This example is from the n_cst_luw of_AcceptText function:

```
...

lb_defined = inv_metaclass.of_isFunctionDefined &
   (lpo_tocheck.ClassDefinition,  &
      "of_AcceptText", ls_args)
...
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

n_cst_mru

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3227')}
{button Functions,JI(`>list_win',`id_pfcoref_3236')} {button
Events,JI(`>list_win',`id_pfcoref_3229')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3228')}
```

Description

Most recently used (MRU) object service. When enabled, n_cst_mru displays a list of most recently used windows or sheet-specific items on the File menu. By default this list displays up to five items, but you can increase this number.

N_cst_mru automatically loads MRU information when the application opens. This information is stored in either the registry (available on Windows platforms) or an INI file (available on all platforms).

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

d_mruservice

m_master

n_cst_mruattrib

n_ds

n_cst_menu

n_cst_string

Usage

Use this object to add MRU capabilities to your application's File menu.

To use n_cst_mru to open most recently used sheets in an MDI application:

1 Enable n_cst_mru by calling the n_cst_appmanager of_SetMRU function. This example is from an application manager Constructor event:

```
this.of_SetMRU(TRUE)
```

2 Specify where MRU information is to be saved by calling either the n_cst_mru of_SetUserKey (Windows only) or of_SetUserINIFile (all platforms) function. This example, which assumes you've already established the n_cst_appmanager user key or user INI file, saves MRU information in the registry or INI file. This example is from an application manager Constructor event:

```
IF this.of_IsRegistryAvailable() THEN

  this.inv_mru.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_mru.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
```

3 Register IDs to be tracked the MRU service by calling the n_cst_mru of_Register function. (An ID is the identifier that the window uses to retrieve information through the MRU service.) This is an example of code you can add to the pfc_PreOpen event of the MDI frame window:

```
IF IsValid(gnv_app.inv_mru) THEN

  gnv_app.inv_mru.of_Register("myapp")
END IF
```

4 Extend the pfc_MRUProcess event in each window that uses the MRU service, adding code to open the appropriate window or sheet (be sure to add this code to the frame window also):

```
Window lw_frame, lw_window

n_cst_menu lnv_menu
n_cst_mruattrib lnv_mruattrib

// Check parameters.
IF IsNull(ai_row) THEN
  Return -1
END IF
IF NOT IsValid(gnv_app.inv_mru) THEN
  Return -1
END IF
```

```
// Retrieve row from DataStore.
gnv_app.inv_mru.of_GetItem &
  (ai_row, lnv_mruattrib)

// Get the MDI frame, if necessary.
lnv_menu.of_GetMDIFrame(this.menuid, lw_frame)

OpenSheet(lw_window, &
   lnv_mruattrib.is_classname, lw_frame)
Return 1
```

Performing other actions in the pfc_MRUProcess event To see other types of processing you can perform in the pfc_MRUProcess event, see the comments in the ancestor pfc_MRUProcess event.

5 Extend the pfc_PreMRUSave event in each window that uses the MRU service. In this event, populate the n_cst_mruattrib object with the ID, classname, key, menu item text, and menu item help to be saved:

```
anv_mruattrib.is_id = "myapp"


anv_mruattrib.is_classname = this.ClassName()
anv_mruattrib.is_menuitemname = this.Title
anv_mruattrib.is_menuitemkey = this.ClassName()
anv_mruattrib.is_menuitemmhelp =  &
   "Opens " + this.Title

Return 1
```

6 Extend the pfc_MRURestore event in each window that uses the MRU service. In this event, call the of_Restore function, specifying the ID of the MRU information to display on this window's menu:

```
If IsValid(gnv_app.inv_mru) Then


  Return gnv_app.inv_mru.of_Restore("myapp", This)
End If
```

7 Call the pfc_MRUSave event to save MRU information. You can call this event when the window opens, when information is saved, or when the window closes (this example is from the pfc_PreOpen event):

```
this.Event pfc_MRUSave()
```

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

n_cst_mru

m_master

n_cst_appmanager

w_master

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

n_cst_mru

{button Functions,JI(`>list_win',`id_pfcoref_3236')} {button Events,JI(`>list_win',`id_pfcoref_3229')}

N_cst_mru includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_useregistry	Reports whether MRU information is stored in the registry or in an INI file	Boolean	Protected	Set with of_SetUseRegistry (default is FALSE)
ids_mrukeys	MRU information	n_ds	Protected	Internal
ii_currentmrucount	Number of items currently in the list	Integer	Protected	Internal
ii_mruitemcount	Maximum number of MRU items	Integer	Protected	Set with of_SetItemCount (default is 5)
is_delimiter	Separates information stored in the registry or INI file	String	Protected	Set with of_SetDelimiter (default is the semicolon)
is_menubarline	Menu item name for the menu bar line above the MRU list in the File menu	String	Protected	Internal (default is m_pfcmrudash1)
is_menuitemstring	Menu item prefix for items in the MRU list	String	Protected	Internal (default is m_pfcmru)
is_mrucountkey	MRU key name for registry or INI file	String	Protected	Internal (default is ItemCount)
is_mruregisteredsection	MRU section name for registry or INI file	String	Protected	Internal (default is MRU Registered Id)
is_mruitemkey	MRU key name for registry or INI file	String	Protected	Internal (default is Item)
inv_register[ ]	Currently currently registered objects	n_cst_mruattrib	Protected	List of registered objects. Add items with of_Register
is_mrusection	MRU section name for registry or INI file	String	Protected	Internal (default is MRU)
is_userinifile	INI file containing registry items	String	Protected	This is typically the user INI file value from n_cst_appmanager
is_userkey	Registry key containing MRU items	String	Protected	This is typically the user key value from n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

n_cst_mru

{button Functions,JI(`>list_win',`id_pfcoref_3236')} {button Instance variables,JI(`>list_win',`id_pfcoref_3228')}

- Constructor event
- Destructor event
- pfc_Close event
- pfc_Decode event
- pfc_Encode event
- pfc_Open event

N_cst_mru includes precoded events:

Constructor	pfc_Decode
Destructor	pfc_Encode
pfc_Close	pfc_Open

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

Constructor event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Creates the ids_mrukeys DataStore and assigns the d_mruservice DataWindow object as its DataObject.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

Destructor event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Destroys the ids_mrukeys DataStore.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

pfc_Close event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Saves MRU settings when the application closes.

Syntax

*application.instancename.*EVENT **pfc_Close** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_apppreference (the n_cst_appmanager default is inv_mru)

Usage

This event executes when the application closes; it is called by the n_cst_appmanager pfc_Close event if the MRU service is enabled.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

pfc_Decode event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Breaks down a key value into its component parts.

Syntax

*application.instancename.*EVENT **pfc_Decode** (*itemkey*, *mruinfo*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
itemkey	String specifying the registry or INI file key to access
mruinfo	N_cst_mruattrib instance into which the event places the class name, menu item text, and key (passed by reference)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The of_Read function calls this event to access the class name, menu item name, and menu item key for a saved item.

You can extend or override this event to include customized logic accessing the registry or INI file.

To control whether the service accesses information in the registry or in an INI file, call the of_SetUseRegistry function.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

pfc_Encode event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Combines MRU information into a string to be stored in the registry or INI file.

Syntax

*application.instancename.*EVENT **pfc_Encode** (*rowindex*, *itemkey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
rowindex	Integer specifying the row in ids_mrukeys from which the event accesses information to be saved
itemkey	String specifying a key value for the information to be saved

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The of_Write function calls this event.

You can extend or override this event to include customized logic for storing MRU information in the registry or INI file.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

pfc_Open event (n_cst_mru)

{button Object,JI(`>main',`caibcgag')}

Description

Initializes object settings and loads the ids_mrukeys DataStore with information from the registry or INI file.

Syntax

*application.instancename.*EVENT **pfc_Open** (*commandline*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
commandline	String containing the command line argument passed to the application Open event

Usage

This event executes when the application opens. It is called by the n_cst_appmanager pfc_Open event if the MRU service has been enabled.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

n_cst_mru

{button Events,JI(`>list_win',`id_pfcoref_3229')} {button Instance variables,JI(`>list_win',`id_pfcoref_3228')}

of_AddItem function

of_AddMenubarLine function

of_Filter function

of_FindItem function

of_GetItem function

of_GetRegistered function

of_GetUserIniFile function

of_GetUserKey function

of_IsRegistered function

of_Load function

of_Read function

of_ReadKeys function

of_Register function

of_Reset function

of_Restore function

of_Save function

of_SetDelimiter function

of_SetItemCount function

of_SetUseRegistry function

of_SetUserIniFile function

of_SetUserKey function

of_Sort function

of_UnRegister function

of_UpdateVisuals function

of_Write function

of_WriteKeys function

N_cst_mru contains precoded object functions:

of_AddItem	of_Reset
of_AddMenubarLine	of_Restore
of_Filter	of_Save
of_FindItem	of_SetDelimiter
of_GetItem	of_SetItemCount
of_GetRegistered	of_SetUseRegistry
of_GetUserIniFile	of_SetUserIniFile
of_GetUserKey	of_SetUserKey
of_IsRegistered	of_Sort
of_Load	of_UnRegister
of_Read	of_UpdateVisuals
of_ReadKeys	of_Write
of_Register	of_WriteKeys

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_AddItem function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3238')}

Description

Saves information in the ids_mrukeys DataStore.

Access

Public

Syntax

application.*instancename*.**of_AddItem** (*mruinfo*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
mruinfo	N_cst_mruattrib instance containing information to be saved in the ids_mrukeys DataStore

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The w_master pfc_MRUSave event calls this function to save an MRU item in the DataStore.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's

Easy-to-Use Tool

of_AddItem function (n_cst_mru)

This example is from the w_master pfc_MRUSave event:

```
...

if gnv_app.inv_mru.of_IsRegistered  &
  (lnv_mruattrib.is_id) then
    Return gnv_app.inv_mru.of_additem(lnv_mruattrib)
ELSE
  Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_AddMenubarLine function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3240')}
```

Description

Enables display of the separator line below the Exit menu item.

Access

Protected

Syntax

application.*instancename*.**of_AddMenubarLine** (*window*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
window	Window variable whose associated menu is modified

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_AddMenubarLine function (n_cst_mru)

This example is from the of_Restore function:

```
...

of_AddMenubarLine(aw_window)
```

```
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_Filter function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3242')}
```

Description

Filters rows in the ids_mrukeys DataStore.

Access

Protected

Syntax

application.instancename.**of_Filter** (*filter*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
filter	String specifying the filter. To reset the filter, specify an empty string

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_Filter function (n_cst_mru)

This example is from the of_Save function:

```
...

for li_index = 1 to ll_objectcount
  ls_id = inv_register[li_index].is_id
  of_Filter("s_id = '" + ls_id + "'")
  of_Sort("n_identity D")
...
```

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_FindItem function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3244')}
```

Description

Finds menu item text within the ids_mrukeys DataStore.

Access

Public

Syntax

application.instancename.**of_FindItem** (*menuitemtext*, *startrow*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
menuitemtext	String specifying the text to find
startrow	Long specifying the row from which to start searching

Return value

Long. Returns the row number if *menuitemtext* is found and -1 if *menuitemtext* is not found.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_FindItem function (n_cst_mru)

This example is from the of_AddItem function:

```
...

ll_currentrow = of_finditem  &
   ("  " + anv_mruattrib.is_menuitemname, 0)
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_GetItem function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3246')}
```

Description

Retrieves MRU information from the DataStore.

Access

Public

Syntax

application.instancename.**of_GetItem** (*row*, *mruinfo*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
row	Long specifying the row to return
mruinfo	N_cst_mruattrib instance into which the function places MRU information (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_GetItem function (n_cst_mru)

This example is from the of_Restore function:

```
...

DO UNTIL (li_index >= li_rowcount) OR &
  (li_itemnumber >= li_itemcount)
    li_index++
    of_GetItem(li_index, lnv_mruattrib)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetRegistered function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3248')}
```

Description

Retrieves the index of the specified ID within the inv_register array.

Access

Public

Syntax

application.instancename.**of_GetRegistered** (*id*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id	String specifying the ID to be checked

Return value

Integer. Returns the index of *id* within the inv_registered array if *id* is registered and -1 if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_GetRegistered function (n_cst_mru)

This example is from the of_IsRegistered function:

```
...

if of_GetRegistered(as_id) < 1 then
        return false
...
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_GetUserIniFile function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3250')}
```

Description

Retrieves the name of the user INI file as established by the of_SetUserIniFile function.

Access

Public

Syntax

*application.instancename.***of_GetUserIniFile** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)

Return value

String. Returns the name of the user-specific INI file.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_GetUserIniFile function (n_cst_mru)

This example calls the of_GetUserIniFile function:

```
String ls_file


ls_file = gnv_app.inv_mru.of_GetUserINIFile()
...
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_GetUserKey function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3252')}
```

Description

Retrieves the name of the registry key in which MRU information is stored.

Access

Public

Syntax

application.instancename.**of_GetUserKey** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)

Return value

String. Returns the name of the registry key.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetUserKey function (n_cst_mru)

This example calls the of_GetUserKey function:

```
String ls_key


ls_key = gnv_app.inv_mru.of_GetUserKey()
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_IsRegistered function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3254')}
```

Description

Reports whether a specified ID is registered with the MRU service.

Access

Public

Syntax

application.instancename.**of_IsRegistered** (*id*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id	String specifying the ID to be tested

Return value

Boolean. Returns TRUE if *id* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_IsRegistered function (n_cst_mru)

This example calls the of_IsRegistered function:

```
...

IF NOT gnv_app.inv_mru.of_IsRegistered("myapp") THEN
   gnv_app.inv_mru.of_Register("myapp")
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_Load function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3256')}
```

Description

Copies MRU information from the registry or INI file to the ids_mrukeys DataStore.

Access

Protected

Syntax

application.*instancename*.**of_Load** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_Load function (n_cst_mru)

This example is from the pfc_Open event:

```
IF of_Load() < 1 THEN

  IF IsValid(gnv_app.inv_debug) THEN
...
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_Read function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3258')}
```

Description

Retrieves MRU items from a specified registry or INI file, calling the pfc_Decode event to extract values.

Access

Protected

Syntax

application.instancename.**of_Read** (*section*, *id*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
section	String specifying the registry or INI file section
id	String specifying the ID to read

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_Read function (n_cst_mru)

This example is from the of_Load function:

```
...

li_itemcount = UpperBound(istr_register)
FOR li_index = 1 TO li_itemcount
  ls_id = inv_register[li_index].is_id
  li_rc = of_Read(is_mrusection, ls_id)
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_ReadKeys function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3260')}
```

Description

Retrieves values from the registry or INI file.

Access

Protected

Syntax

application.instancename.**of_ReadKeys** (*section*, *keyword*, *value*, *default*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
section	String specifying the registry or INI file section
keyword	String specifying the keyword whose corresponding value is to be returned
value	String into which the function places the value corresponding to *keyword* (passed by reference)
default	String specifying a default value to be returned if *keyword* is not found

Return value

Integer. Returns 1 if the function succeeds, 0 if the default value was used, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_ReadKeys function (n_cst_mru)

This example is from the of_Load function:

```
...

ls_defaultcount = String(ii_mruitemcount)
of_ReadKeys(is_mrusection, is_mrucountkey, &
   ls_value, ls_defaultcount)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Register function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3262')}
```

Description

Registers an ID to be tracked by the MRU service, optionally specifying the maximum number of items to track.

Access

Public

Syntax

application.*instancename*.**of_Register** (*id* {, *itemcount* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id	String specifying the ID to be registered
itemcount (optional)	Integer specifying the number of MRU items to track. The default is five, which you can modify using the of_SetItemCount function

Return value

Integer. Returns 1 if the function succeeds, 0 if the ID is already registered, and -1 if an error occurs.

Usage

If you specify a number greater than five for *itemcount*, you must also create additional MRU menu items on the m_master File menu.

You must also add code to the window's pfc_PreMRUSave and pfc_MRURestore events that uses the *id* value.

Call this function once for each separate group of MRU items to be tracked. For example, the sheets that display employee information might display different MRU items than the sheets that display customer information.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_Register function (n_cst_mru)

This example calls the of_Register function:

```
gnv_app.inv_mru.of_Register("empinfo")
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_Reset function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3264')}

Description

Clears either rows for a specified ID or all rows from the ids_mrukeys DataStore.

Access

Public

Syntax

application.*instancename*.**of_Reset** ({ *id* })

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id (optional)	String specifying the ID of the MRU items to remove from the ids_mrukeys DataStore

Return value

Integer. Returns the number of rows removed if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_Reset function (n_cst_mru)

This example calls the of_Reset function:

```
...

gnv_app.inv_mru.of_Reset()
...
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_Restore function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3266')}
```

Description

Adds MRU information to the menu associated with the passed window.

Access

Public

Syntax

application.instancename.**of_Restore** (*id*, *window*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id	String specifying the id of the MRU items to be restored
window	Window variable referencing the window whose menu is to contain the MRU items

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The code you add when extending the w_master pfc_MRURestore event calls this function.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_Restore function (n_cst_mru)

This example is from the w_master pfc_MRURestore event:

```
IF IsValid(gnv_app.inv_mru) THEN

  Return gnv_app.inv_mru.of_Restore("empinfo", This)
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_Save function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3268')}
```

Description

Copies information from the ids_mrukeys DataStore to the registry or INI file.

Access

Protected

Syntax

application.instancename.**of_Save** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_Save function (n_cst_mru)

This example is from the pfc_Close event:

```
If of_Save() < 1 Then

  IF IsValid(gnv_app.inv_debug) THEN
...
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_SetDelimiter function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3270')}
```

Description

Specifies the delimiter that separates the elements of the MRU value stored in the registry of INI file.

Access

Public

Syntax

application.instancename.**of_SetDelimiter** (*delimiter*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
delimiter	String specifying the delimiter

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The default delimiter is the semicolon (;).

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetDelimiter function (n_cst_mru)

This example calls the of_SetDelimiter function:

```
gnv_app.inv_mru.of_SetDelimiter("^")
```

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_SetItemCount function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3272')}

Description

Specifies the maximum number of items that n_cst_mru will track and display at the bottom of the File menu.

Access

Public

Syntax

application.*instancename*.**of_SetItemCount** (*count*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
count	Integer specifying the maximum number of MRU items

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you specify a number larger than five, you must also create additional MRU menu items for menus that use the MRU service.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_SetItemCount function (n_cst_mru)

This example calls the of_SetItemCount function:

```
gnv_app.inv_mru.of_SetItemCount(4)
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_SetUseRegistry function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3274')}

Description

Specifies whether n_cst_mru stores settings in the registry or an INI file.

Access

Public

Syntax

application.instancename.**of_SetUseRegistry** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
boolean	Boolean indicating whether the service stores settings in the registry (TRUE) or an INI file (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to toggle back and forth between an INI file and the registry (the of_SetUserIniFile and of_SetUserKey functions already control whether the service saves to the INI file or the registry).

The registry is available on Windows platforms only.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_SetUseRegistry function (n_cst_mru)

This example calls the of_SetUseRegistry function:

```
...

IF ib_restricted THEN
   gnv_app.inv_mru.of_SetUseRegistry(TRUE)
ELSE
   gnv_app.inv_mru.of_SetUseRegistry(FALSE)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_SetUserIniFile function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3276')}
```

Description

Specifies the name of the INI file for MRU information.

Access

Public

Syntax

*application.instancename.***of_SetUserIniFile** (*inifilename*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
inifilename	String specifying the fully qualified name of the user INI file

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When you call this function, n_cst_mru uses the specified INI file automatically, overriding any previous specifications made with either the of_SetUseRegistry or of_SetUserKey functions.

The INI file for MRU information is typically the same as the application manager user INI file.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_SetUserIniFile function (n_cst_mru)

This example from an n_cst_appmanager Constructor event calls the of_SetUserIniFile function:

```
...

IF this.of_IsRegistryAvailable() THEN
  this.inv_mru.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_mru.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with a Help Authoring Tool

of_SetUserKey function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3278')}
```

Description

Specifies the name of the registry key for MRU information.

Access

Public

Syntax

*application.instancename.***of_SetUserKey** (*registrykey*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
registrykey	String containing the registry key

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

When you call this function, n_cst_mru uses the specified registry key automatically, overriding any previous specifications made with either the of_SetUseRegistry or of_SetUserIniFile functions.

The registry key for MRU information is typically the same as the application manager user key.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetUserKey function (n_cst_mru)

This example calls the of_SetUserKey function:

```
...

IF this.of_IsRegistryAvailable() THEN
  this.inv_mru.of_SetUserKey &
    (this.of_GetUserKey())
ELSE
  this.inv_mru.of_SetUserINIFile &
    (this.of_GetUserINIFile())
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Sort function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3280')}
```

Description

Sorts the ids_mrukeys DataStore.

Access

Protected

Syntax

application.instancename.**of_Sort** (*sortcriteria*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
sortcriteria	String containing the sort criteria

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced

Customization Options

of_Sort function (n_cst_mru)

This example is from the of_Restore function:

```
...

of_Filter("")
of_Sort("n_identity D")
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_UnRegister function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3282')}
```

Description

Removes an ID from the MRU service.

Access

Public

Syntax

application.instancename.**of_UnRegister** (*id*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
id	String containing the id to be removed

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_UnRegister function (n_cst_mru)

This example calls the of_UnRegister function:

```
gmv_app.inv_mru.of_UnRegister("empinfo")
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_UpdateVisuals function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3284')}

Description

Sets and displays the specified MRU items on the menu associated with the specified window.

Access

Protected

Syntax

application.*instancename*.**of_UpdateVisuals** (*window*, *menuitemtext*, *menuitemindex*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
window	Window variable referencing the window whose associated menu is updated
menuitemtext	String specifying the text to display on the menu item
menuitemindex	Integer specifying which of the MRU menu items to update. This value must be between 1 and 5

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_UpdateVisuals function (n_cst_mru)

This example is from the of_Restore function:

```
...

li_rc = of_UpdateVisuals(aw_window, &
  ls_menuitemtext, li_itemnumber)
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_Write function (n_cst_mru)

{button Object,JI(`>main',`caibcgag')} {button Examples,JI(`>Examples',`id_pfcoref_3286')}

Description

Copies MRU information from the ids_mrukeys DataStore to the registry or INI file.

Access

Protected

Syntax

application.instancename.**of_Write** (*section*, *itemcount*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
section	String specifying the registry or INI file section
itemcount	Integer specifying the number of items to copy

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_Write function (n_cst_mru)

This example is from the of_Save function:

```
...

li_rc = of_Write(is_mrusection + " " + ls_id,  &
  inv_register[li_index].ii_itemcount)
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_WriteKeys function (n_cst_mru)

```
{button Object,JI(`>main',`caibcgag')} {button
Examples,JI(`>Examples',`id_pfcoref_3288')}
```

Description

Writes information to the registry or INI file.

Access

Protected

Syntax

application.instancename.**of_WriteKeys** (*section*, *keyword*, *value*)

Argument	Description
application	Global variable of type n_cst_appmanager (must be gnv_app)
instancename	Instance name of n_cst_mru (the n_cst_appmanager default is inv_mru)
section	String specifying the registry or INI file section
keyword	String specifying the keyword whose corresponding value is to be saved
value	String specifying a value corresponding to *keyword*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_WriteKeys function (n_cst_mru)

This example is from the of_Save function:

```
...

ls_MRUKeyName = is_mruitemkey +  &
   string(ll_registeredcount)
li_rc = of_WriteKeys(is_mruregisteredsection,  &
   ls_MRUKeyName, ls_key)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

n_cst_nodebase

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3291')}
{button Functions,JI(`>list_win',`id_pfcoref_3293')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3292')} {button
Descendants,JI(`>list_win',`id_pfcoref_3290')}
```

Description

List instance ancestor object. Implement list nodes through one of this object's descendants:

- N_cst_linkedlistnode
- N_cst_treenode

Each element in a linked list or balanced binary tree is an instance of n_cst_nodebase. n_cst_nodebase contains references to the next and prior nodes, data, a key value, and (balanced binary tree only) balance information.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

PFC objects use this object as the ancestor for list nodes.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

n_cst_nodebase

n_cst_linkedlistnode

n_cst_treenode

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

n_cst_nodebase

n_cst_linkedlistbase

n_cst_nodecomparebase

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

n_cst_nodebase

{button Functions,JI(`>list_win',`id_pfcoref_3293')}

N_cst_nodebase includes instance variables:

Instance variable	Description	Data type	Access	Usage
ia_data	Node data	Any	Protected	Set with of_SetData
ia_key	Node key value	Any	Protected	Set with of_SetKey
inv_next	Reference to next node	n_cst_nodebase	Protected	Set with of_SetNext
inv_prev	Reference to prior node	n_cst_nodebase	Protected	Set with of_SetPrev

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

n_cst_nodebase

{button Instance variables,JI(`>list_win',`id_pfcoref_3292')}

of_CopyTo function

of_GetData function

of_GetKey function

of_GetNext function

of_GetPrev function

of_SetData function

of_SetKey function

of_SetNext function

of_SetPrev function

N_cst_nodebase contains precoded object functions:

of_CopyTo	of_SetData
of_GetData	of_SetKey
of_GetKey	of_SetNext
of_GetNext	of_SetPrev
of_GetPrev	

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_CopyTo function (n_cst_nodebase)

{button Object,JI(`>main',`biibdiie')} {button Examples,JI(`>Examples',`id_pfcoref_3295')}

Description

Copies the data, key, next pointer, and previous pointer of the current node into the passed node.

Access

Public

Syntax

instancename.**of_CopyTo** (*targetnode*)

Argument	Description
instancename	Instance name of n_cst_nodebase
targetnode	N_cst_nodebase instance whose information is copied from *instancename*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you extend n_cst_nodebase, be sure to override this function to copy all added data elements as well as the ia_key, ia_data, inv_next, and inv_prev instance variables.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_CopyTo function (n_cst_nodebase)

This example calls the of_CopyTo function:

```
n_cst_linkedlistnode  lnv_node, lnv_temp, lnv_copy

Integer  li_return
Any  la_data

lnv_temp = CREATE n_cst_linkedlistnode
...
lnv_copy = CREATE n_cst_linkedlistnode
li_return = lnv_node.of_CopyTo(lnv_copy)
```

```
IF li_return = 1 THEN
   lnv_copy.of_GetData(la_data)
        MessageBox("Success",  &
      "Node copied successfully~r~n"  &
         + "Data is: " + String(la_data))
END IF
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetData function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3297')}
```

Description

Retrieves the data for the current node.

Access

Public

Syntax

instancename.**of_GetData** (*data*)

Argument	Description
instancename	Instance name of n_cst_nodebase
data	Any variable into which the function places the data from the current node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_GetData function (n_cst_nodebase)

This example calls the of_GetData function:

```
...

FOR li_loop = 1 TO li_count
   lnv_node[li_loop].of_GetData(la_data)
   ls_data = String(la_data)
   lb_list.AddItem(ls_data)
NEXT
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetKey function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3299')}
```

Description

Retrieves the key for the current node.

Access

Public

Syntax

instancename.**of_GetKey** (*key*)

Argument	Description
instancename	Instance name of n_cst_nodebase
key	Any variable into which the function places the key value from the current node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetKey function (n_cst_nodebase)

This example calls the of_GetKey function:

```
...

FOR li_loop = 1 TO li_count
   lnv_node[li_loop].of_GetData(la_data)
   ls_data = String(la_data)
   lnv_node[li_loop].of_GetKey(la_key)
   ls_key = String(la_key)
   lb_list.AddItem(ls_key + ", " + ls_data)
NEXT
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetNext function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3301')}
```

Description

Retrieves the next node in the list.

Access

Public

Syntax

instancename.**of_GetNext** (*nextnode*)

Argument	Description
instancename	Instance name of n_cst_nodebase
nextnode	N_cst_nodebase instance into which the function places the next node in the list (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs or there is no next node.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetNext function (n_cst_nodebase)

This example is from the n_cst_list of_Find function:

```
...

lnv_node.of_GetNext(lnv_node)
...
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetPrev function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3303')}
```

Description

Retrieves the previous node in the list.

Access

Public

Syntax

instancename.**of_GetPrev** (*previousnode*)

Argument	Description
instancename	Instance name of n_cst_nodebase
previousnode	N_cst_nodebase instance into which the function places the previous node in the list (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs or there is no previous node.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetPrev function (n_cst_nodebase)

This example is from the n_cst_linkedlistbase of_Remove function:

```
...

anv_removenode.of_GetPrev(lnv_previous)
...
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_SetData function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3305')}
```

Description

Adds data to the current node.

Access

Public

Syntax

instancename.**of_SetData** (*data*)

Argument	Description
instancename	Instance name of n_cst_nodebase
data	Any variable containing the data to be added to *instancename*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_SetData function (n_cst_nodebase)

This example calls the of_SetData function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_list.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_SetKey function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3307')}
```

Description

Specifies a key for the current node.

Access

Public

Syntax

instancename.**of_SetKey** (*key*)

Argument	Description
instancename	Instance name of n_cst_nodebase

key	Any variable containing the key to be added to *instancename*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_SetKey function (n_cst_nodebase)

This example calls the of_SetKey function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_list.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

of_SetNext function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3309')}
```

Description

Establishes a reference to the next node in a list.

Access

Public

Syntax

instancename.**of_SetNext** (*nextnode*)

Argument	Description
instancename	Instance name of n_cst_nodebase
nextnode	N_cst_nodebase instance that references the new next node in the list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetNext function (n_cst_nodebase)

This example is from the n_cst_linkedlistbase of_Add function:

```
...
```

```
anv_insertafternode.of_SetNext(anv_newnode)
anv_newnode.of_SetPrev(anv_insertafternode)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_SetPrev function (n_cst_nodebase)

```
{button Object,JI(`>main',`biibdiie')} {button
Examples,JI(`>Examples',`id_pfcoref_3311')}
```

Description

Establishes a reference to the previous node in a list.

Access

Public

Syntax

instancename.**of_SetPrev** (*previousnode*)

Argument	Description
instancename	Instance name of n_cst_nodebase
previousnode	N_cst_nodebase instance that references the previous node in the list

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetPrev function (n_cst_nodebase)

This example is from the n_cst_list of_Add function:

```
...

anv_insertafternode.of_SetNext(anv_newnode)
anv_newnode.of_SetPrev(anv_insertafternode)
...
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_cst_nodecomparebase

```
{button See also,PI(`',`id_pfcoref_3314')} {button
Functions,JI(`>list_win',`id_pfcoref_3316')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3315')} {button
Descendants,JI(`>list_win',`id_pfcoref_3313')}
```

Description

Node comparison ancestor object.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_nodebase

Usage

Extend this object's descendants to implement site-specific comparison processing. PFC objects use comparison processing during sort and find operations.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

n_cst_nodecomparebase

n_cst_linkedlistnodecompare

n_cst_treenodecompare

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

n_cst_nodecomparebase

n_cst_list

n_cst_queue

n_cst_stack

n_cst_tree

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

n_cst_nodecomparebase

{button Functions,JI(`>list_win',`id_pfcoref_3316')}

N_cst_nodecomparebase includes instance variables:

Instance variable	Description	Data type	Access	Usage
EQUAL	Constant set to 0	Integer	Public	Use with of_Compare
GREATERTHAN	Constant set to 2	Integer	Public	Use with of_Compare

LESSTHAN	Constant set to 1	Integer	Public	Use with of_Compare

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

n_cst_nodecomparebase

{button Instance variables,JI(`>list_win',`id_pfcoref_3315')}

of_Compare function

N_cst_nodecomparebase contains a precoded object function:

of_Compare

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_Compare function (n_cst_nodecomparebase)

{button Object,JI(`>main',`biibfaej')}

Compares two items. There are two syntaxes.

To	Use
Compare two nodes	Syntax 1
Compare two values	Syntax 2

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

Syntax 1 To compare two nodes

Syntax 1 To compare two nodes

{button Examples,JI(`>Examples',`id_pfcoref_3319')}

Description

Performs a simple comparison using the keys of two passed nodes. Both keys must use a simple data type and the data types must match.

Access

Public

Syntax

instancename.**of_Compare** (*node1*, *node2*)

Argument	Description
instancename	Instance name of n_cst_nodecomparebase
node1	First n_cst_nodebase instance
node2	Second n_cst_nodebase instance

Return value

Integer. Returns values as follows:

- **GREATERTHAN or 2** The key of *node1* is greater than the key of *node2*
- **LESSTHAN or 1** The key of *node1* is less than the key of *node2*

- **EQUAL or 0** The key of *node1* is equal to the key of *node2*
- **FAILURE or -1** An error occurred

Usage

PFC list processing objects call this function when comparing nodes to determine where to place them in the list.

If your list processing requires more complex comparison criteria, create a descendant of either n_cst_linkedlistnodecompare or n_cst_treenodecompare, override the of_Compare function with the appropriate comparison, and establish your customized descendant as the comparison object by calling the list object's of_SetCompare function.

For an example of the code you might use when overriding of_Compare, see n_cst_linkedlistnodecompare.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

Syntax 1 To compare two nodes

This example is from the n_cst_list of_Find function:

```
...

do while IsValid(lnv_node)
   choose case inv_compare.of_compare  &
       (anv_keynode, lnv_node)
     case inv_compare.EQUAL
...
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

Syntax 2 To compare two values

Syntax 2 To compare two values

{button Examples,JI(`>Examples',`id_pfcoref_3321')}

Description

Performs a simple comparison of two passed values.

Access

Public

Syntax

instancename.**of_Compare** (*value1*, *value2*)

Argument	Description
instancename	Instance name of n_cst_nodecomparebase
value1	Any containing the first value
value2	Any containing the second value

Return value

Integer. Returns values as follows:

- **GREATERTHAN or 2** The key of *value1* is greater than the key of *value2*
- **LESSTHAN or 1** The key of *value1* is less than the key of *value2*

- **EQUAL or 0** The key of *value1* is equal to the key of *value2*
- **FAILURE or -1** An error occurred

Usage

Syntax 1 calls this version to perform the actual comparison. The data types for *value1* and *value2* must match.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

Syntax 2 To compare two values

This example is from Syntax 1 of the of_Compare function:

```
...

anv_node1.of_getkey(la_key1)
anv_node2.of_getkey(la_key2)

li_rc = of_Compare(la_key1, la_key2)

Return li_rc
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_numerical

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3323')}
{button Functions,JI(`>list_win',`id_pfcoref_3324')}
```

Description

Binary number service. This service provides functions that you can call to access binary data. For example, you can call the of_GetBit function to determine if a specified bit is on or off.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use numerical functions:

1 Declare a variable of type n_cst_numerical:

```
n_cst_numerical  inv_numerical
```

Because PFC defines this object with the autoinstantiate option, you do not need to code CREATE or DESTROY statements.

2 Call numerical service functions as needed.

This example assumes an inv_numerical instance variable:

```
Long ll_base10

String ls_binary

ll_base10 = Long(sle_base10.text)
ls_binary = inv_numerical.of_Binary(ll_base10)

MessageBox("Numerical", &
String(ll_base10) + " base 10 is equal to " + &
            ls_binary + " in binary.")
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_numerical

n_cst_conversion

n_cst_string

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

n_cst_numerical

of_Binary function

of_BitwiseAnd function

of_BitwiseNot function

of_BitwiseOr function

of_BitwiseXor function

of_Decimal function

of_GetBit function

N_cst_numerical includes precoded object functions:

of_Binary
of_BitwiseAnd
of_BitwiseNot
of_BitwiseOr
of_BitwiseXor
of_Decimal
of_GetBit

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_Binary function (n_cst_numerical)

{button Object,JI(`>main',`cbbchbge')} {button Examples,JI(`>Examples',`id_pfcoref_3326')}

Description

Determines the binary representation of a positive base 10 number.

Access

Public

Syntax

instancename.**of_Binary** (*number*)

Argument	Description
instancename	Instance name of n_cst_numerical
number	Long to be converted to binary. This number must be positive

Return value

String. Retrieves the binary representation of *number*. If *number* is invalid or NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_Binary function (n_cst_numerical)

This example calls the of_Binary function. It assumes an inv_numerical instance variable:

```
Long  ll_base10

String  ls_binary

ll_base10 = Long(sle_base10.text)
ls_binary = inv_numerical.of_Binary(ll_base10)

MessageBox("Numerical", &
        String(ll_base10) + " base 10 is equal to " + &
       ls_binary + " in binary.")
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_BitwiseAnd function (n_cst_numerical)

{button Object,JI(`>main',`cbbchbge')} {button Examples,JI(`>Examples',`id_pfcoref_3328')}

Description

Performs a bitwise AND operation on each bit of two passed values. In a bitwise AND operation:

1 AND 0 evaluates to 0

0 AND 0 evaluates to 0

1 AND 1 evaluates to 1

Access

Public

Syntax

instancename.**of_BitwiseAnd** (*value1*, *value2*)

Argument	Description
instancename	Instance name of n_cst_numerical
value1	Long containing one of the values used in the bitwise AND operation
value2	Long containing the other value used in the bitwise AND operation

Return value

Long. Returns the result of the AND operation on each of *value1*'s and *value2*'s bits.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_BitwiseAnd function (n_cst_numerical)

This example is from the n_cst_filesrv of_IncludeFile function:

```
n_cst_numerical   lnv_numeric


...
IF lnv_numeric.of_BitwiseAnd &
        (aul_FileAttrib, al_AttribMask) > 0 THEN
        Return TRUE
END IF
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_BitwiseNot function (n_cst_numerical)

```
{button Object,JI(`>main',`cbbchbge')} {button
Examples,JI(`>Examples',`id_pfcoref_3330')}
```

Description

Performs a bitwise NOT operation on each bit of a passed value. In a bitwise NOT operation:

1 evaluates to 0

0 evaluates to 1

Access

Public

Syntax

instancename.**of_BitwiseNot** (*value*)

Argument	Description
instancename	Instance name of n_cst_numerical
value	Long containing one of the value used in the bitwise NOT operation

Return value

Long. Returns the result of the NOT operation on each of *value*'s bits.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_BitwiseNot function (n_cst_numerical)

This example calls the of_BitwiseNot function. It assumes an inv_numerical instance variable:

```
Long   ll_original, ll_not


ll_original = Long(sle_not.text)
ll_not = inv_numerical.of_BitwiseNot &
        (ll_original)

MessageBox("Numerical", "Binary original is " &
        + String(ll_original) + ". Bitwise NOT is " &
        + String(ll_not) )
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_BitwiseOr function (n_cst_numerical)

```
{button Object,JI(`>main',`cbbchbge')} {button
Examples,JI(`>Examples',`id_pfcoref_3332')}
```

Description

Performs a bitwise OR operation on each bit of two passed values. In a bitwise OR operation:

1 OR 0 evaluates to 1

0 OR 0 evaluates to 0

1 OR 1 evaluates to 1

Access

Public

Syntax

instancename.**of_BitwiseOr** (*value1*, *value2*)

Argument	Description
instancename	Instance name of n_cst_numerical
value1	Long containing one of the values used in the bitwise OR operation
value2	Long containing the other value used in the bitwise OR operation

Return value

Long. Returns the result of the OR operation on each of *value1*'s and *value2*'s bits.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_BitwiseOr function (n_cst_numerical)

This example calls the of_BitwiseOr function. It assumes an inv_numerical instance variable:

```
Long   ll_value1, ll_value2, ll_result


ll_value1 = Long(sle_value1.text)
ll_value2 = Long(sle_value2.text)
ll_result = inv_numerical.of_BitwiseOr &
        (ll_value1, ll_value2)

MessageBox("Numerical", "Value 1 is " &
        + sle_value1.text + " Value 2 is " &
        + sle_value2.text + " Bitwise OR is " &
        + String(ll_result) )
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_BitwiseXor function (n_cst_numerical)

```
{button Object,JI(`>main',`cbbchbge')} {button
Examples,JI(`>Examples',`id_pfcoref_3334')}
```

Description

Performs a bitwise exclusive OR (XOR) operation on each bit of two passed values.

In a bitwise XOR operation:

1 XOR 0 evaluates to 1

0 XOR 0 evaluates to 0

1 XOR 1 evaluates to 0

Access

Public

Syntax

instancename.**of_BitwiseXor** (*value1*, *value2*)

Argument	Description
instancename	Instance name of n_cst_numerical
value1	Long containing one of the values used in the bitwise XOR operation
value2	Long containing the other value used in the bitwise XOR operation

Return value

Long. Returns the result of the XOR operation on each of *value1's* and *value2*'s bits.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_BitwiseXor function (n_cst_numerical)

This example calls the of_BitwiseXor function. It assumes an inv_numerical instance variable:

```
Long   ll_value1, ll_value2, ll_result


ll_value1 = Long(sle_value1.text)
ll_value2 = Long(sle_value2.text)
ll_result = inv_numerical.of_BitwiseXor &
        (ll_value1, ll_value2)
```

```
MessageBox("Numerical", "Value 1 is " &
        + sle_value1.text + " Value 2 is " &
        + sle_value2.text + " Bitwise XOR is " &
        + String(ll_result) )
```

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_Decimal function (n_cst_numerical)

```
{button Object,JI(`>main',`cbbchbge')} {button
Examples,JI(`>Examples',`id_pfcoref_3336')}
```

Description

Retrieves the base 10 representation of a binary number.

Access

Public

Syntax

instancename.**of_Decimal** (*binaryvalue*)

Argument	Description
instancename	Instance name of n_cst_numerical
binaryvalue	String containing the binary value whose positive base 10 value is returned

Return value

Long. Returns the positive base 10 representation of *binaryvalue*. If *binaryvalue* is invalid, the function returns -1; if *binaryvalue* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_Decimal function (n_cst_numerical)

This example calls the of_Decimal function. It assumes an inv_numerical instance variable:

```
Long    ll_base10


ll_base10 = inv_numerical.of_Decimal &
        (sle_binary.text)
MessageBox("Numerical", &
        sle_binary.text + " in binary is equal to " + &
               String(ll_base10) + " in Base 10.")
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetBit function (n_cst_numerical)

```
{button Object,JI(`>main',`cbbchbge')} {button
Examples,JI(`>Examples',`id_pfcoref_3338')}
```

Description

Reports whether the specified binary bit of a passed base 10 argument is on (1) or off (0).

Access

Public

Syntax

instancename.**of_GetBit** (*value*, *bit*)

Argument	Description
instancename	Instance name of n_cst_numerical
value	Long whose on/off value is to be determined
bit	UnsignedInteger indicating the bit position in *value*, from right to left

Return value

Boolean. Returns TRUE if the bit is on and FALSE if it is off.

Usage

The Windows Software Development Kit (SDK) includes many functions that return bit values. This function can help you access these bit values.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetBit function (n_cst_numerical)

This example is from the n_cst_filesrvwin32 of_DirList function:

```
n_cst_numerical    lnv_numeric

Integer    li_entries
os_finddata lstr_finddata
...
// Set file attributes
anv_dirlist[li_entries].ib_readonly = &
         lnv_numeric.of_GetBit &
            (lstr_finddata.ul_fileattributes, 1)
...
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

n_cst_platform

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3341')}
{button Functions,JI(`>list_win',`id_pfcoref_3343')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3342')} {button
Descendants,JI(`>list_win',`id_pfcoref_3340')}
```

Description

Ancestor object for platform-specific functions. Most of the functions in this object are virtual functions and return -1, FALSE, or an empty string. A **virtual function** is an empty placeholder function; the actual processing occurs in its descendants.

Defining virtual functions in an ancestor object is a technique that allows you to define a reference variable with the ancestor's data type but instantiate the variable with the descendant's data type. PFC contains descendent objects for each supported platform.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.BPL

Object relationships

s_pagesetupattrib

s_printdlgattrib

w_pagesetup

Usage

To use the platform service:

1. Instantiate the appropriate platform services object by calling the f_SetPlatform global function. This function examines your environment and instantiates the appropriate user object.
2. Call platform services functions as required. The code for these functions is defined in the descendant objects. If the function isn't available on your platform, PowerBuilder executes the ancestor (n_cst_platform) function, which returns 0, -1, FALSE, or an empty string.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

n_cst_platform

n_cst_platformwin32

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

n_cst_platform

f_SetPlatform

n_cst_filesrv

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

n_cst_platform

{button Functions,JI(`>list_win',`id_pfcoref_3343')}

N_cst_platform contains an instance variable:

Instance variable	Description	Data type	Access	Usage
is_separator	Separator character	String	Protected	Used by the operating system when specifying fully qualified pathnames (default is backslash)

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

n_cst_platform

{button Instance variables,JI(`>list_win',`id_pfcoref_3342')}

__of_FindWindow__function

__of_GetComputerName__function

__of_GetFreeMemory__function

__of_GetPhysicalMemory__function

__of_GetSystemDirectory__function

__of_GetTextSize__function

__of_GetUserID__function

__of_GetWindowsDirectory__function

__of_GetWindowText__function

__of_PageSetupDlg function

__of_PlaySound__function

__of_PrintDlg__function

__of_SetFindWindowClasses__function

N_cst_platform includes precoded object functions, which are virtual functions with corresponding versions in n_cst_platform descendants:

- of_FindWindow
- of_GetComputerName
- of_GetFreeMemory
- of_GetPhysicalMemory
- of_GetSystemDirectory
- of_GetTextSize
- of_GetUserID
- of_GetWindowsDirectory
- of_GetWindowText
- of_PageSetupDlg
- of_PlaySound
- of_PrintDlg
- of_SetFindWindowClasses

By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_FindWindow function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3345')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_FindWindow** (*windowname*)

Argument	Description
instancename	Instance name of n_cst_platform
windowname	String

Return value

UnsignedInteger. Always returns 0.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_FindWindow function (n_cst_platform)

n_cst_platformwin32 of_FindWindow function

of_SetFindWindowClasses

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_GetComputerName function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3347')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetComputerName** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document

into an eBook

of_GetComputerName function (n_cst_platform)

n_cst_platformwin32 of_GetComputerName function

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_GetFreeMemory function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3349')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetFreeMemory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

Long. Always returns -1.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_GetFreeMemory function (n_cst_platform)

n_cst_platformwin32 of_GetFreeMemory function

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetPhysicalMemory function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3351')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetPhysicalMemory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

Long. Always returns -1.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetPhysicalMemory function (n_cst_platform)

n_cst_platformwin32 of_GetPhysicalMemory function

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetSystemDirectory function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3353')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetSystemDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetSystemDirectory function (n_cst_platform)

n_cst_platformwin32 of_GetSystemDirectory function

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetTextSize function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3355')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetTextSize** (*window*, *text*, *font*, *fontsize*, *bold*, *italic, underline, height, width*)

Argument	Description
instancename	Instance name of n_cst_platform
window	Window
text	String
font	String
fontsize	Integer
bold	Boolean
italic	Boolean
underline	Boolean
height	Integer (passed by reference)
width	Integer (passed by reference)

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_GetTextSize function (n_cst_platform)

n_cst_platformwin32 of_GetTextSize function

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_GetUserID function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3357')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetUserID** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_GetUserID function (n_cst_platform)

n_cst_platformwin32 of_GetUserID function

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_GetWindowsDirectory function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3359')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetWindowsDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_GetWindowsDirectory function (n_cst_platform)

n_cst_platformwin32 of_GetWindowsDirectory function

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetWindowText function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3361')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_GetWindowText** (*window*)

Argument	Description
instancename	Instance name of n_cst_platform
window	UnsignedInteger

Return value

String. Always returns an empty string.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_GetWindowText function (n_cst_platform)

n_cst_platformwin32 of_GetWindowText function

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_PageSetupDlg function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')}

Description

Displays the w_pagesetup dialog box, which allows you to control print settings.

Access

Public

Syntax

instancename.**of_PageSetupDlg** (*setupinfo*)

Argument	Description
instancename	Instance name of n_cst_platform
setupinfo	S_pagesetupattrib instance into which the function places page setup information (passed by reference)

Return value

Long. Returns 1 if the function succeeds, 0 if the user canceled out of the dialog box, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_PlaySound function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3364')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_PlaySound** (*filename* {, *beeponfailure* })

Argument	Description
instancename	Instance name of n_cst_platform
filename	String
beeponfailure	Boolean

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_PlaySound function (n_cst_platform)

n_cst_platformwin32 of_PlaySound function

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_PrintDlg function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3366')}

Description

Virtual function only. By defining virtual functions in this object, you can declare a reference variable of type n_cst_platform for use with all n_cst_platform descendants.

Access

Public

Syntax

instancename.**of_PrintDlg** (*printinfo*, *window*)

Argument	Description
instancename	Instance name of n_cst_platform
printinfo	S_printdlgattrib instance into which the function places print information (passed by reference)
window	Window

Return value

Integer. Always returns -1.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_PrintDlg function (n_cst_platform)

n_cst_platformwin32 of_PrintDlg function

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_SetFindWindowClasses function (n_cst_platform)

{button Object,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3368')}

Description

Sets the window class names to be used by the service.

Access

Public

Syntax

instancename.**of_SetFindWindowClasses** (*classname*)

Argument	Description
instancename	Instance name of n_cst_platform
classname	String name for array of window classes.

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Of_FindWindow will use all of the class names specified in the *classname* array.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_SetFindWindowClasses function (n_cst_platform)

of_FindWindow

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

n_cst_platformwin32

{button Ancestor,JI(`>main',`cbbdiccf')} {button See also,PI(`',`id_pfcoref_3370')} {button Functions,JI(`>list_win',`id_pfcoref_3373')} {button Events,JI(`>list_win',`id_pfcoref_3371')}

Description

Platform-specific functions for applications running on Windows. Platform-specific functions require a call to a platform-specific external function. When you call the f_SetPlatform function, it detects the operating environment and instantiates the correct platform-specific object.

The functions in this object call platform-specific external functions. To see a complete list of platform-specific external functions used by this object, access the User Object painter and select Declare>Local External Functions from the menu bar. This object calls functions in the following platform-specific 32-bit Windows modules:

ADVAPI32.EXE

GDI32.EXE

KERNEL32.EXE

USER32.EXE

WINMM.DLL

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use the platform service:

1. Instantiate the appropriate platform services object by calling the f_SetPlatform global function. This function examines your environment and instantiates the appropriate user object.
2. Call platform services functions as required. The code for these functions is defined in the descendant objects. If the function isn't available on your platform, PowerBuilder executes the ancestor (n_cst_platform) function, which, depending on the function, returns an empty string, TRUE, -1, 0, or NULL.

Structure	Field	Data type
os_memorystatus	ul_availpagefile	UnsignedLong
	ul_availphys	UnsignedLong
	ul_availvirtual	UnsignedLong
	ul_length	UnsignedLong
	ul_memoryload	UnsignedLong
	ul_totalpagefile	UnsignedLong
	ul_totalphys	UnsignedLong
	ul_totalvirtual	UnsignedLong
os_size	l_cx	Long
	l_cy	Long

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

n_cst_platformwin32

f_SetPlatform

n_cst_filesrv

n_cst_platform

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

n_cst_platformwin32

{button Functions,JI(`>list_win',`id_pfcoref_3373')}

Constructor event

N_cst_platformwin32 includes a precoded event script:

Constructor

Created with the Personal Edition of HelpNDoc: Easily create Help documents

Constructor event (n_cst_platformwin32)

{button Object,JI(`>main',`cbbbhiib')}

Description

Initializes the is_separator instance variable.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

n_cst_platformwin32

{button Events,JI(`>list_win',`id_pfcoref_3371')}

of_FindWindow function

of_GetComputerName function

of_GetFreeMemory function

of_GetPhysicalMemory function

of_GetSystemDirectory function

of_GetTextSize function

of_GetUserID function

of_GetWindowsDirectory function

of_GetWindowText function

of_PlaySound function

of_PrintDlg function

N_cst_platformwin32 includes precoded object functions:

- of_FindWindow
- of_GetComputerName
- of_GetFreeMemory
- of_GetPhysicalMemory
- of_GetSystemDirectory
- of_GetTextSize
- of_GetUserID
- of_GetWindowsDirectory
- of_GetWindowText
- of_PlaySound
- of_PrintDlg

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_FindWindow function (n_cst_platformwin32)

{button Object,JI(`>main',`cbbbhiib')} {button Examples,JI(`>Examples',`id_pfcoref_3375')}

Description

Returns the handle of the specified window, as identified by window title.

Access

Public

Syntax

instancename.**of_FindWindow** (*windowname*)

Argument	Description
instancename	Instance name of n_cst_platform
windowname	String containing the window title. For MDI applications, this is the title of the frame window

Return value

UnsignedInteger. Returns the handle of *windowname*.

Usage

This function calls the FindWindowA external function.

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_FindWindow function (n_cst_platformwin32)

This example calls the of_FindWindow function:

```
UnsignedInteger lui_handle


lui_handle = inv_platform.of_FindWindow &
        (gnv_app.of_GetFrame( ).title)
MessageBox("Platform Service", &
        "Window handle is: " + String(lui_handle) )
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetComputerName function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3377')}
```

Description

Returns the name of the current workstation.

Access

Public

Syntax

instancename.**of_GetComputerName** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Returns the name of the current workstation.

Usage

This function calls the GetComputerNameA external function.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetComputerName function (n_cst_platformwin32)

This example calls the of_GetComputerName function:

```
String    ls_computer


ls_computer = inv_platform.of_GetComputerName()
MessageBox("Platform", "Current workstations is:" &
        + ls_computer )
```

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_GetFreeMemory function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3379')}
```

Description

Returns the number of bytes of available memory (including the maximum allowable size of the swap file).

Access

Public

Syntax

instancename.**of_GetFreeMemory** ( )

Argument	Description

instancename	Instance name of n_cst_platform

Return value

Long. Returns the number of bytes of available memory.

Usage

This function calls the GlobalMemoryStatus external function.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetFreeMemory function (n_cst_platformwin32)

This example calls the of_GetFreeMemory function:

```
Long   ll_free


ll_free = inv_platform.of_GetFreeMemory()
MessageBox("Platform", String(ll_free) &
        + " bytes of free memory" )
```

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

of_GetPhysicalMemory function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3381')}
```

Description

Returns the total number of bytes of physical memory (RAM).

Access

Public

Syntax

instancename.**of_GetPhysicalMemory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

Long. Returns the number of bytes of memory.

Usage

This function calls the GlobalMemoryStatus external function.

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_GetPhysicalMemory function (n_cst_platformwin32)

This example calls the of_GetPhysicalMemory function:

```
Long  ll_total


ll_total = inv_platform.of_GetPhysicalMemory( )
MessageBox("Platform", String(ll_total) &
        + " bytes of RAM (total)" )
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_GetSystemDirectory function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3383')}
```

Description

Returns the path of the system directory (for example, Windows\System).

Access

Public

Syntax

instancename.**of_GetSystemDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Returns the path of the system directory if the function succeeds and an empty string if it cannot determine the system directory.

Usage

This function calls the GetSystemDirectoryA external function.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_GetSystemDirectory function (n_cst_platformwin32)

This example calls the of_GetSystemDirectory function:

```
String   ls_system


ls_system = inv_platform.of_GetSystemDirectory()
IF ls_system <> "" THEN
        MessageBox("Platform", "System Directory is: " &
               + String(ls_system) )
ELSE
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_GetTextSize function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3385')}
```

Description

Calculates height and width in PBUs, based on the passed input arguments.

Access

Public

Syntax

instancename.**of_GetTextSize** (*window*, *text*, *font*, *fontsize*, *bold*, *italic, underline, height, width*)

Argument	Description
instancename	Instance name of n_cst_platform
window	Window variable used by the function to create temporary text
text	String specifying the text for which the function calculates height and width
font	String specifying the font
fontsize	Integer specifying the font size
bold	Boolean specifying whether *text* is bold
italic	Boolean specifying whether *text* is italic
underline	Boolean specifying whether *text* is underlined
height	Integer into which the function places the text height, in PBUs (passed by reference)
width	Integer into which the function places the text width, in PBUs (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when sizing text objects and controls manually in a multiplatform environment.

This function calls the GetDC, SelectObject, GetTextExtentPoint32A, and ReleaseDC external functions.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetTextSize function (n_cst_platformwin32)

This example is from the n_cst_dwsrv_report of_AddText function:

```
IF inv_Platform.of_GetTextSize(lw_parent, &

        ls_text + " ", as_fontface, ai_fontsize, &
              ab_bold, ab_italic, ab_underline, ai_height, &
                     ai_width) = -1 Then Return -1
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetUserID function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3387')}
```

Description

Returns the current network logon name.

Access

Public

Syntax

instancename.**of_GetUserID** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Returns the current network logon ID if the function succeeds and an empty string if no log on ID can be found.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetUserID function (n_cst_platformwin32)

This example calls the of_GetUserID function:

```
String   ls_userid


ls_userid = inv_platform.of_GetUserID( )
IF ls_userid <> "" THEN
        MessageBox("Platform", "User ID is: " &
               + String(ls_userid) )
ELSE
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetWindowsDirectory function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3389')}
```

Description

Returns the Windows directory (for example, C:\Windows).

Access

Public

Syntax

instancename.**of_GetWindowsDirectory** ( )

Argument	Description
instancename	Instance name of n_cst_platform

Return value

String. Returns the path of the Windows directory if the function succeeds and an empty string if it cannot determine the Windows directory.

Usage

This function calls the GetWindowsDirectoryA external function.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetWindowsDirectory function (n_cst_platformwin32)

This example calls the of_GetWindowsDirectory function:

```
String    ls_windows


ls_windows = inv_platform.of_GetWindowsDirectory()
IF ls_windows <> "" THEN
        MessageBox("Platform", "Windows Directory is:" &
               + String(ls_windows) )
ELSE
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetWindowText function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3391')}
```

Description

Returns the text in the window title.

Access

Public

Syntax

instancename.**of_GetWindowText** (*window*)

Argument	Description
instancename	Instance name of n_cst_platform
window	UnsignedInteger containing the window handle

Return value

String. Returns the title text of the specified window if the function succeeds and an empty string if an error occurs.

Usage

This function calls the GetWindowTextA external function.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_GetWindowText function (n_cst_platformwin32)

This example calls the of_GetWindowText function:

```
String    ls_title


ls_title = inv_platform.of_GetWindowText &
        (handle(this) )
MessageBox("Platform Service", &
        "Window title is: " + ls_title)
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_PlaySound function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3393')}
```

Description

Plays the specified sound file.

Access

Public

Syntax

instancename.**of_PlaySound** (*filename*)

Argument	Description
instancename	Instance name of n_cst_platform
filename	String specifying the complete pathname of the sound file to play

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function calls the WaveOutGetNumDevs and sndPlaySoundA external functions.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_PlaySound function (n_cst_platformwin32)

This example calls the of_PlaySound function:

```
String    ls_sound


ls_sound=sle_soundfile.text
IF inv_platform.of_PlaySound(ls_sound) = -1 THEN
        gnv_app.of_GetFrame().SetMicroHelp &
               ("No sound capabilities")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_PrintDlg function (n_cst_platformwin32)

```
{button Object,JI(`>main',`cbbbhiib')} {button
Examples,JI(`>Examples',`id_pfcoref_3395')}
```

Description

Displays an operating-system specific Print dialog box.

Access

Public

Syntax

instancename.**of_PrintDlg** (*printinfo*, *window*)

Argument	Description
instancename	Instance name of n_cst_platform
printinfo	S_printdlgattrib instance containing print information (passed by reference)
window	Window variable containing the window opening the Print dialog box

Return value

Integer. Returns values as follows:

0—User cancelled print dialog

1—Success

-1—Unspecified error

-2—Max pages less than To pages

-3—Min pages greater than From pages

-4—From pages or To pages less than 0

Usage

In order to set the Pages radio button, you must specify From and To pages. Pages must be set to display the Collate checkbox.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_PrintDlg function (n_cst_platformwin32)

This example is from the u_dw pfc_PrintDlg event:

```
...

astr_printdlg.b_allpages = TRUE

ls_copies = this.object.datawindow.print.copies
IF NOT IsNumber (ls_copies) THEN
        ls_copies = "1"
END IF
li_copies = Integer(ls_copies)
astr_printdlg.l_copies = li_copies
ls_collate = this.object.datawindow.print.collate
lb_collate = lnv_conversion.of_Boolean(ls_collate)
astr_printdlg.b_collate = lb_collate
```

```
astr_printdlg.l_frompage = 1
astr_printdlg.l_minpage = 1
...
this.Event pfc_PrePrintDlg(astr_printdlg)

f_SetPlatform(lnv_platform, TRUE)
this.of_GetParentWindow(lw_parent)
ll_rc = &
        lnv_platform.of_PrintDlg &
            astr_printdlg, lw_parent)
f_SetPlatform(lnv_platform, FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

n_cst_queue

```
{button Ancestor,JI(`>main',`biicgiaj')} {button See also,PI(`',`id_pfcoref_3397')}
{button Functions,JI(`>list_win',`id_pfcoref_3398')}
```

Description

Queue-processing object. Nodes in a queue are accessed on a first-in, first-out (FIFO) basis. When you add a new node to the queue, n_cst_queue places it at the end of the list; when you get a node from the queue, n_cst_queue accesses it from the beginning of the list, removing it in the process.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_linkedlistnode

Usage

Use this object to handle list processing for FIFO lists (queues).

To use n_cst_queue:

1 Create a variable for n_cst_queue. This example declares a window instance variable:

```
n_cst_queue  inv_queue
```

2 Add nodes to the queue. To do this, first create a node, specify a key and data, then call the of_Put function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_queue.of_Put(lnv_node)
```

3 Access and remove items from the queue as appropriate by calling the of_Get function. This example displays the key in a MessageBox:

```
Any la_key

n_cst_linkedlistnode lnv_node

inv_queue.of_Get(lnv_node)
IF IsValid(lnv_node) THEN
   lnv_node.of_GetKey(la_key)
   MessageBox("Queue", &
      "Key is " + String(la_key))
ELSE
   MessageBox("Queue", "List is empty")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_queue

n_cst_linkedlistnode

n_cst_list

n_cst_stack

n_cst_tree

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

n_cst_queue

of_Get function

of_Put function

N_cst_queue contains precoded object functions:

of_Get

of_Put

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_Get function (n_cst_queue)

{button Object,JI(`>main',`caieahgc')} {button Examples,JI(`>Examples',`id_pfcoref_3400')}

Description

Retrieves the top node in the queue, removing it from the queue.

Access

Public

Syntax

instancename.**of_Get** (*node*)

Argument	Description
instancename	Instance name of n_cst_queue
node	N_cst_linkedlistnode instance into which the function places a reference to the first node in the queue (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_Get function (n_cst_queue)

This example calls the of_Get function:

```
Any la_key

n_cst_linkedlistnode lnv_node

inv_queue.of_Get(lnv_node)
IF IsValid(lnv_node) THEN
   lnv_node.of_GetKey(la_key)
   MessageBox("Queue", &
      "Key is " + String(la_key))
ELSE
   MessageBox("Queue", "List is empty")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_Put function (n_cst_queue)

```
{button Object,JI(`>main',`caieahgc')} {button
Examples,JI(`>Examples',`id_pfcoref_3402')}
```

Description

Adds a node to the bottom of a queue.

Access

Public

Syntax

instancename.**of_Put** (*node*)

Argument	Description
instancename	Instance name of n_cst_queue
node	N_cst_linkedlistnode instance to add to the bottom of the queue

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Before calling this function, create the node, add key information, and add data.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_Put function (n_cst_queue)

This example calls the of_Put function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_queue.of_Put(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Easily create Help documents

n_cst_resize

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3404')}
{button Functions,JI(`>list_win',`id_pfcoref_3408')} {button
Events,JI(`>list_win',`id_pfcoref_3406')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3405')}
```

Description

Resize service object.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Usage

This service provides two resizing options:

- **For simple resizing** Call the of_Register function passing n_cst_resize constants, such as FIXEDBOTTOM
- **For total control over resizing** Implement weighted resize by calling the of_Register function with explicit specifications for moving and scaling

To use this service:

1 Enable the service using the w_master, u_tab, or u_tabpg of_SetResize function. This function automatically sets the original size instance variables:

```
this.of_SetResize(TRUE)
```

2 (Optional) Specify the window, tab, or tab page's original size by calling the of_SetOrigSize function. You call this function if an MDI application opens MDI sheets with an enumeration other than Original!:

```
this.inv_resize.of_SetOrigSize &

(this.width, this.height)
```

3 (Optional) Call the of_SetMinSize function to specify a minimum size below which the resize service no longer resizes registered controls:

```
this.inv_resize.of_SetMinSize &

   (this.width-50, this.height-100)
```

4 Call the of_Register function once for each control that you want to be resized automatically whenever the object resizes.

```
this.inv_resize.of_Register &

     (lv_emp, this.inv_resize.SCALERIGHTBOTTOM)
this.inv_resize.of_Register &
     (cb_ok, this.inv_resize.FIXEDRIGHT)
this.inv_resize.of_Register &
     (cb_cancel, this.inv_resize.FIXEDRIGHT)
```

The Resize event calls the n_cst_resize of_Resize function to perform the resizing.

5 (Optional) Call the of_UnRegister function to remove controls from the resize list.

Open MDI sheets using the Original! enumeration If you open MDI sheets with an enumeration other than Original!, call the of_SetOrigSize function before registering controls with the resize service. The call to of_SetOrigSize passes what the workspace width and height would have been had the sheet opened in the original size. This applies to controls in a window, tab, or tab page.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_resizeattrib custom class user object replaces the os_resize object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

n_cst_resize

n_cst_dwsrv_resize

u_tab

u_tabpg

w_master

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

n_cst_resize

{button Functions,JI(`>list_win',`id_pfcoref_3408')} {button Events,JI(`>list_win',`id_pfcoref_3406')}

N_cst_resize includes instance variables:

Instance variable	Description	Data type	Access	Usage
DRAGOBJECT	Constant set to DragObject!	String	Protected	Internal
FIXEDBOTTOM	Constant set to FixedToBottom	String	Public	Use with of_Register
FIXEDBOTTOM_SCALERIGHT	Constant set to FixedToBottom& ScaleToRight	String	Public	Use with of_Register
FIXEDRIGHT	Constant set to FixedToRight	String	Public	Use with of_Register
FIXEDRIGHT_SCALEBOTTOM	Constant set to FixedToRight& ScaleToBottom	String	Public	Use with of_Register
FIXEDRIGHTBOTTOM	Constant set to FixedToRight&Bottom	String	Public	Use with of_Register
ii_rounding	Rounding factor	Integer	Protected	Internal (default is 5)
il_parentminimumheight	Minimum height for the parent window	Long	Protected	Set with the of_SetMinSize
il_parentminimumwidth	Minimum width for the parent window	Long	Protected	Set with the of_SetMinSize
il_parentprevheight	Original height of the parent window	Long	Protected	Set with of_SetOrigSize
il_parentprevwidth	Original width of the parent window	Long	Protected	Set with of_SetOrigSize
inv_registered [ ]	Structure array to track objects eligible for resizing	n_cst_resize attrib	Protected	Internal

LINE	Constant set to Line!	String	Protected	Internal
MDICLIENT	Constant set to MDIClient!	String	Protected	Internal
OVAL	Constant set to Oval!	String	Protected	Internal
RECTANGLE	Constant set to Rectangle!	String	Protected	Internal
ROUNDRECTANGLE	Constant set to RoundRectangle!	String	Protected	Internal

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

n_cst_resize

{button Functions,JI(`>list_win',`id_pfcoref_3408')} {button Instance variables,JI(`>list_win',`id_pfcoref_3405')}

pfc_Resize event

N_cst_resize includes a precoded event:

pfc_Resize

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

pfc_Resize event (n_cst_resize)

{button Object,JI(`>main',`cbbbbchi')}

Description

Calls the of_Resize function, resizing the object, as specified in the of_Register function calls.

Syntax

*instancename.*EVENT **pfc_Resize** (*sizetype*, *newwidth*, *newheight*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
sizetype	UnsignedLong specifying the resize type: • 0 — (Restored) The window or DataWindow has been resized, but it was not minimized or maximized. The user may have dragged the borders or a script may have called the Resize PowerScript function • 1 — (Minimized) The window or DataWindow has been minimized • 2 — (Maximized) The window or DataWindow has been maximized
newwidth	Integer specifying the new width
newheight	Integer specifying the new height

Usage

The u_dw, u_tab, and u_tabpg Resize events call this event.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

n_cst_resize

{button Events,JI(`>list_win',`id_pfcoref_3406')} {button Instance variables,JI(`>list_win',`id_pfcoref_3405')}

of_GetMinMaxPoints function

of_Register function

of_Resize function

of_SetMinSize function

of_SetOrigSize function

of_TypeOf function

of_UnRegister function

N_cst_resize includes precoded object functions:

of_GetMinMaxPoints	of_SetOrigSize
of_Register	of_TypeOf
of_Resize	of_UnRegister
of_SetMinSize	

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_GetMinMaxPoints function (n_cst_resize)

{button Object,JI(`>main',`cbbbbchi')} {button Examples,JI(`>Examples',`id_pfcoref_3410')}

Description

Retrieves the four extreme points of all controls within a window.

Access

Public

Syntax

instancename.**of_GetMinMaxPoints** (*controls*, *minx*, *miny*, *maxx*, *maxy*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
controls	WindowObject array containing the controls for which the minimum and maximum points are returned
minx	Integer into which the function places the minimum *x* coordinate (passed by reference)
miny	Integer into which the function places the minimum *y* coordinate (passed by reference)
maxx	Integer into which the function places the maximum *x* coordinate (passed by reference)
maxy	Integer into which the function places the maximum *y* coordinate (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_GetMinMaxPoints function (n_cst_resize)

This example calls the of_GetMinMaxPoints function from within a window control:

```
WindowObject   lwo_controls[ ]

Integer  li_minx, li_miny, li_maxx, li_maxy
Integer  li_return

li_return = parent.inv_resize.of_GetMinMaxPoints &
        (parent.control[ ], li_minx, li_miny, &
              li_maxx, li_maxy)
IF li_return = -1 THEN
        MessageBox("Window Resize", &
               "Error in of_GetMinMaxPoints")
ELSE
        MessageBox("Window Resize", &
               "Minimum x: " + String(li_minx) &
               + "~r~nMinimum y: " + String(li_miny) &
               + "~r~nMaximum x: " + String(li_maxx) &
                  + "~r~nMaximum y: " + String(li_maxy))
END IF
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_Register function (n_cst_resize)

{button Object,JI(`>main',`cbbbbchi')}

Registers a control for resizing. The resize service moves and optionally resizes registered controls when the user resizes the window. There are two syntaxes:

To register by specifying	Use
Resize and move percentages	Syntax 1
Resize method	Syntax 2

One additional syntax N_cst_resize supports one additional of_Register syntax, which is defined as protected and used internally by the other syntaxes.

For more information on this syntax, use the Object Browser.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

Syntax 1 Register by specifying resize and move percentages

Syntax 1 Register by specifying resize and move percentages

{button Examples,JI(`>Examples',`id_pfcoref_3413')}

Description

Registers a control for resizing given resize and move percentages.

Access

Public

Syntax

instancename.**of_Register** (*control*, *movex*, *movey*, *scalewidth*,

scaleheight)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
control	WindowObject variable specifying the object to be resized
movex	Integer specifying the percentage to move the object along the x axis
movey	Integer specifying the percentage to move the object along the y axis
scalewidth	Integer specifying the percentage to resize the object along the x axis
scaleheight	Integer specifying the percentage to resize the object along the y axis

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Because you can explicitly specify resize and move percentages, this syntax provides more flexibility than Syntax 2.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

Syntax 1 Register by specifying resize and move percentages

This example calls the of_Register function:

```
this.inv_resize.of_Register &

 (dw_1, 0, 0, 50, 50)
this.inv_resize.of_Register &
  (dw_2, 100, 0, 50, 50)
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

Syntax 2 Register by specifying a resize method

Syntax 2 Register by specifying a resize method

```
{button Examples,JI(`>Examples',`id_pfcoref_3415')}
```

Description

Registers a control for resizing given a resize method.

Access

Public

Syntax

instancename.**of_Register** (*control*, *method*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
control	WindowObject variable containing the control to be registered
method	String or n_cst_resize constant specifying how the resize service handles *control* when the window Resize event occurs: • "FixedToRight" or FIXEDRIGHT • "FixedToBottom" or FIXEDBOTTOM • "FixedToRight&Bottom" or FIXEDRIGHTBOTTOM • "Scale" or SCALE

- "ScaleToRight" or SCALERIGHT
- "ScaleToBottom" or SCALEBOTTOM
- "ScaleToRight&Bottom" or SCALERIGHTBOTTOM
- "FixedToRight&ScaleToBottom" or FIXEDRIGHT_SCALEBOTTOM
- "FixedToBottom&ScaleToRight" or FIXEDBOTTOM_SCALERIGHT

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

Syntax 2 Register by specifying a resize method

This example calls the of_Register function:

```
this.of_SetResize(TRUE)

this.inv_resize.of_SetOrigSize &
     (this.width, this.height)
this.inv_resize.of_Register &
     (lv_emp, this.inv_resize.SCALERIGHTBOTTOM)
this.inv_resize.of_Register &
     (cb_ok, this.inv_resize.FIXEDRIGHT)
this.inv_resize.of_Register &
     (cb_cancel, this.inv_resize.FIXEDRIGHT)
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_Resize function (n_cst_resize)

```
{button Object,JI(`>main',`cbbbbchi')} {button
Examples,JI(`>Examples',`id_pfcoref_3417')}
```

Description

Moves or resizes registered controls, as specified in the of_Register function.

Access

Protected

Syntax

instancename.**of_Resize** (*newwidth*, *newheight*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
newwidth	Integer specifying the new window width
newheight	Integer specifying the new window height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The w_master Resize event calls this function when the resize service has been enabled.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with

HelpNDoc's Project Analyzer

of_Resize function (n_cst_resize)

This example is from the w_master Resize event:

```
IF IsValid (inv_resize) THEN

        inv_resize.of_Resize &
               (this.WorkSpaceWidth(), &
                      this.WorkSpaceHeight())
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_SetMinSize function (n_cst_resize)

{button Object,JI(`>main',`cbbbbchi')} {button Examples,JI(`>Examples',`id_pfcoref_3419')}

Description

Establishes a minimum window size below which the resize service no longer modifies the position of registered controls.

Access

Public

Syntax

instancename.**of_SetMinSize** (*minimumwidth*, *minimumheight*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
minimumwidth	Integer specifying minimum width
minimumheight	Integer specifying minimum height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetMinSize function (n_cst_resize)

This example calls the of_SetMinSize function:

```
this.inv_resize.of_SetMinSize &

     (this.width, this.height)
this.inv_resize.of_Register &
     (lv_emp, this.inv_resize.SCALERIGHTBOTTOM)
this.inv_resize.of_Register &
     (cb_ok, this.inv_resize.FIXEDRIGHT)
this.inv_resize.of_Register &
     (cb_cancel, this.inv_resize.FIXEDRIGHT)
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetOrigSize function (n_cst_resize)

```
{button Object,JI(`>main',`cbbbbchi')} {button
Examples,JI(`>Examples',`id_pfcoref_3421')}
```

Description

Saves the current window size.

Access

Public

Syntax

instancename.**of_SetOrigSize** (*width*, *height*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
width	Integer specifying the window width
height	Integer specifying the window height

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You call this function before calling the of_Register function.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_SetOrigSize function (n_cst_resize)

This example calls the of_SetOrigSize function:

```
Integer  li_return


this.of_SetResize(TRUE)
li_return = this.inv_resize.of_SetOrigSize &
        (this.width, this.height)
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_TypeOf function (n_cst_resize)

```
{button Object,JI(`>main',`cbbbbchi')} {button
Examples,JI(`>Examples',`id_pfcoref_3423')}
```

Description

Determines the object type for a window control.

Access

Protected

Syntax

instancename.**of_TypeOf** (*control*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
control	WindowObject variable for which the function determines the object type

Return value

String. Returns the object type if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_TypeOf function (n_cst_resize)

This example is from the of_Register function:

```
Choose Case of_TypeOf(awo_control[li_cnt])

        Case DRAGOBJECT
       ...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_UnRegister function (n_cst_resize)

```
{button Object,JI(`>main',`cbbbbchi')} {button
Examples,JI(`>Examples',`id_pfcoref_3425')}
```

Description

Removes a control from the list of controls eligible for resizing.

Access

Public

Syntax

instancename.**of_UnRegister** (*control*)

Argument	Description
instancename	Instance name of n_cst_resize (the default is inv_resize)
control	WindowObject variable containing the control to be unregistered

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_UnRegister function (n_cst_resize)

This example calls the of_UnRegister function:

```
Integer  li_return


li_return = parent.inv_resize.of_UnRegister &
        (lv_emp)
IF li_return = -1 THEN
        MessageBox("Resize", "UnRegister failed")
END IF
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

n_cst_rtefind

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3427')}
{button Functions,JI(`>list_win',`id_pfcoref_3435')} {button
Events,JI(`>list_win',`id_pfcoref_3429')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3428')}
```

Description

Find and replace service. Controls find and replace operations in a u_rte-based RichTextEdit control.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

u_rte

Usage

U_rte uses this object to control find and replace processing.

To use this service:

1 Enable the service using the u_rte of_SetFind function:

```
rte_doc.of_SetFind(TRUE)
```

When users select Edit>Find or Edit>Replace from the menu bar of a menu that descends from the m_master menu, the service displays the w_find or w_replace dialog box. You can also display these dialog boxes programmatically, as explained in the next step.

2 Display the w_find dialog box by calling the u_rte pfc_FindDlg event; display the w_replace dialog box by calling the u_rte pfc_ReplaceDlg event. This example displays the w_find dialog box:

```
rte_doc.Event pfc_FindDlg()
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

n_cst_rtefind

u_rte

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

n_cst_rtefind

{button Functions,JI(`>list_win',`id_pfcoref_3435')} {button Events,JI(`>list_win',`id_pfcoref_3429')}

Instance variable	Description	Data type	Access	Usage
ib_ongoingfind	Indicates whether a find operation is a new find or a find next operation	Boolean	Protected	Internal
idw_requestor	U_dw-based DataWindow control that is associated with this instance of n_cst_rtefind	u_dw	Protected	The DataWindow must use the RichTextEdit presentation style. You must add supporting code to implement find and replace for RichTextEdit DataWindows
inv_findattrib	Structure object containing find and replace information	n_cst_findattrib	Protected	Internal
irte_requestor	U_rte-based RichTextEdit control that is associated with this instance of n_cst_rtefind	u_rte	Protected	Internal

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

n_cst_rtefind

{button Functions,JI(`>list_win',`id_pfcoref_3435')} {button Instance variables,JI(`>list_win',`id_pfcoref_3428')}

pfc_FindDlg event

pfc_FindNext event

pfc_Replace event

pfc_ReplaceAll event

pfc_ReplaceDlg event

N_cst_rtefind includes precoded event scripts:

pfc_FindDlg
pfc_FindNext
pfc_Replace
pfc_ReplaceAll
pfc_ReplaceDlg

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_FindDlg event (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')}

Description

Displays the w_find dialog box.

Usage

This event is called when the RichTextEdit has focus and the user selects Edit>Find from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_FindNext event (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')}

Description

Begins a search using the current settings.

Syntax

instancename.Event **pfc_FindNext** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	N_cst_findattrib instance containing find information. From within the pfc_FindNext event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns the number of characters found. This event returns 0 if no matching text is found and -1 if an error occurs.

Usage

This event is called by the w_find and w_replace dialog boxes to continue a search for a previously specified string.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

pfc_Replace event (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')}

Description

Replaces text as specified in the w_replace dialog box.

Syntax

instancename.Event **pfc_Replace** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	N_cst_findattrib instance containing find information. From within the pfc_Replace event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_replace dialog box calls this event when the user clicks Replace.

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

pfc_ReplaceAll event (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')}

Description

Calls the pfc_Replace event to replace all occurrences of the search string with the target string.

Syntax

instancename.Event **pfc_ReplaceAllt** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	n_cst_findattrib instance containing find information. From within the pfc_ReplaceAll event, access this value through the *anv_findattrib* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_replace dialog box calls this event when the user clicks Replace All.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

pfc_ReplaceDlg event (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')}

Description

Displays the w_replace dialog box.

Usage

This event is called when the RichTextEdit has focus and the user selects Edit>Replace from a menu that descends from the PFC m_master menu.

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

n_cst_rtefind

{button Events,JI(`>list_win',`id_pfcoref_3429')} {button Instance variables,JI(`>list_win',`id_pfcoref_3428')}

of_CompareAttrib function

of_Initialize function

of_IsOngoingFind function

of_SetRequestor function

N_cst_rtefind includes precoded object functions:

of_CompareAttrib	of_IsOngoingFind
of_Initialize	of_SetRequestor

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_CompareAttrib function (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')} {button Examples,JI(`>Examples',`id_pfcoref_3437')}

Description

Reports whether the user has made changes to specifications on the w_replace dialog box.

Access

Protected

Syntax

instancename.**of_CompareAttrib** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	N_cst_findattrib instance containing find information

Return value

Boolean. Returns TRUE if there are no changes and FALSE if changes were made.

Usage

The of_IsOngoingFind function calls this function.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_CompareAttrib function (n_cst_rtefind)

This example is from the of_IsOnGoingFind function:

```
IF IsValid(anv_findattrib) THEN
```

```
        IF NOT of_CompareAttrib(anv_findattrib) THEN
        Return FALSE
        END IF
END IF
Return TRUE
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_Initialize function (n_cst_rtefind)

{button Object,JI(`>main',`cbbdffee')} {button Examples,JI(`>Examples',`id_pfcoref_3439')}

Description

Initializes the inv_findattrib instance with the passed values.

Access

Public

Syntax

instancename.**of_Initialize** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	N_cst_findattrib instance containing find information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when the inv_findattrib default values are not appropriate.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_Initialize function (n_cst_rtefind)

This example calls the of_Initialize function:

```
// Display the Find/Replace windows with

// The Direction Control only.
n_cst_findattrib  lnv_findattrib

lnv_findattrib.is_find = ''
lnv_findattrib.is_replacewith = ''
lnv_findattrib.ib_wholewordvisible =False
lnv_findattrib.ib_wholewordenabled =False
lnv_findattrib.ib_wholeword = False
lnv_findattrib.ib_matchcasevisible = False
lnv_findattrib.ib_matchcaseenabled = False
lnv_findattrib.ib_matchcase = False
lnv_findattrib.ib_directionvisible = True
lnv_findattrib.ib_directionenabled = True
lnv_findattrib.is_direction = 'Down'
lnv_findattrib.ib_lookvisible = False
lnv_findattrib.ib_lookenabled = False

rte_emp.inv_find.of_Initialize(lnv_findattrib)
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_IsOngoingFind function (n_cst_rtefind)

```
{button Object,JI(`>main',`cbbdffee')} {button
Examples,JI(`>Examples',`id_pfcoref_3441')}
```

Description

Reports whether the current find operation is a new Find or Find Next operation.

Access

Public

Syntax

instancename.**of_IsOngoingFind** (*findattrib*)

Argument	Description
instancename	Instance name of n_cst_rtefind
findattrib	N_cst_findattrib instance containing find information

Return value

Boolean. Returns TRUE if the current find is the same as before and FALSE if it is not.

Usage

N_cst_rtefind events call this function to determine is the current find operation is a new Find or Find Next operation.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_IsOngoingFind function (n_cst_rtefind)

This example is from the pfc_FindNext event:

```
...

IF ib_ongoingfind THEN
        ib_ongoingfind = of_IsOngoingFind(anv_findattrib)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetRequestor function (n_cst_rtefind)

```
{button Object,JI(`>main',`cbbdffee')} {button
Examples,JI(`>Examples',`id_pfcoref_3443')}
```

Description

Associates a RichTextEdit or DataWindow control with this instance of n_cst_rtefind.

Access

Public

Syntax

instancename.**of_SetRequestor** (*requestor*)

Argument	Description
instancename	Instance name of n_cst_rtefind
requestor	U_rte-based RichTextEdit control or u_dw-based DataWindow window control to associate with this instance of n_cst_rtefind

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The u_rte of_SetFind function calls this function.

If you are writing an extension to use this service with a DataWindow using the RichTextEdit presentation style, call this function to associate the DataWindow with this service.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_SetRequestor function (n_cst_rtefind)

This example is from the u_rte of_SetFind function:

```
...

IF ab_Switch THEN
        IF Not IsValid(inv_find) THEN
                inv_find = Create n_cst_rtefind
                inv_find.of_SetRequestor(this)
                Return 1
        END IF
ELSE
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

n_cst_security

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3445')}
{button Functions,JI(`>list_win',`id_pfcoref_3446')}
```

Description

Security service. PFC can handle many of your application's security needs. It includes administrative components and a runtime security object, n_cst_security. N_cst_security includes instance variables as well as precoded events and functions. This discussion describes only those functions you code in an application.

For complete information on security in PFC, see the PFC User's Guide.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_string

n_ds

n_tr

Usage

To use the PFC security system, you must first define users and groups, then associate them with windows and controls, as described in the PFC User's Guide.

To use n_cst_security in an application:

1 Create the object by calling the n_cst_appmanager of_SetSecurity function (this example is from an n_cst_appmanager pfc_Open event:

```
this.of_SetSecurity(TRUE)
```

2 Establish a transaction object for the security database. This example assumes an itr_sec instance variable of type n_tr on n_cst_appmanager:

```
itr_sec = CREATE n_tr

CONNECT using itr_sec;
```

3 Initialize the security object by calling the of_InitSecurity function:

```
this.inv_security.of_InitSecurity &

    (itr_sec, "EISAPP", &
       gnv_app.of_GetUserID(), "Default")
```

N_cst_appmanager pfc_Open The steps listed above might all be coded in the n_cst_appmanager pfc_Open event.

4 Disconnect from the database and destroy the transaction object when the application closes. This example might be coded in the n_cst_appmanager pfc_Close event:

```
DISCONNECT using itr_sec;

Destroy itr_sec
```

5 In the Open or pfc_PreOpen events of windows for which you want to apply security, call the of_SetSecurity function:

```
IF NOT &
```

```
                gnv_app.inv_security.of_SetSecurity(this) THEN
            MessageBox("Security", &
               "Unable to set security")
            Close(this)
        END IF
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

n_cst_security

n_cst_appmanager

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

n_cst_security

of_InitSecurity function

of_SetSecurity function

N_cst_security includes many precoded object functions. The functions you call from an application are documented here:

of_InitSecurity

of_SetSecurity

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_InitSecurity function (n_cst_security)

{button Object,JI(`>main',`cbbbibhb')} {button Examples,JI(`>Examples',`id_pfcoref_3448')}

Description

Initializes security parameters.

Access

Public

Syntax

application.instancename.**of_InitSecurity** (*transaction*, *appname*, *user*, *group* {, *precache* })

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
instancename	Instance name of n_cst_security (the n_cst_appmanager default is inv_security)
transaction	N_tr variable for the security database connection. You must connect to the database before calling this function
appname	String specifying the application name, as defined in the security database
user	String specifying the user ID, as defined in the security database
group	String specifying the default group. PFC uses this group if no group is defined in the database for *user*
precache (optional)	Boolean specifying whether to preload all security settings for the user (the default is FALSE)

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Transaction not connected
- **-2** Application not in database
- **-3** User ID not in database
- **-4** User is not a member of any groups and specified default group does not exist
- **-5** Default group not specified
- **-6** Retrieval error

Usage

You typically call this function in the n_cst_appmanager pfc_Open event.

You must call the n_cst_appmanager of_SetSecurity function before calling this function. You must call this function before calling the n_cst_security of_SetSecurity function.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_InitSecurity function (n_cst_security)

This example calls the of_InitSecurity function. It assumes an itr_sec instance variable of type n_tr:

```
Integer  li_return


itr_sec = CREATE n_tr
CONNECT using itr_sec;

li_return = this.inv_security.of_InitSecurity &
        (this.itr_sec, "EISAPP", &
               gnv_app.of_GetUserID(), "Default")
...
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_SetSecurity function (n_cst_security)

```
{button Object,JI(`>main',`cbbbibhb')} {button
Examples,JI(`>Examples',`id_pfcoref_3450')}
```

Description

Establishes security for a window, menu, or window control, hiding and/or disabling controls, as specified for the user in the security database.

Access

Public

Syntax

application.instancename.**of_SetSecurity** (*object*)

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)

instancename	Instance name of n_cst_security (the n_cst_appmanager default for this is inv_security)
object	Window, GraphicObject, or DataWindow variable containing the window, DataWindow, or window control for which security is applied

Return value

Boolean. Returns TRUE if the function succeeds and FALSE if an error occurs.

Usage

Call this function in a window Open or pfc_PreOpen event to apply security to a window, hiding and/or disabling controls, as specified for the user in the security database.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_SetSecurity function (n_cst_security)

This example calls the of_SetSecurity function:

```
IF NOT &

        gnv_app.inv_security.of_SetSecurity(this) THEN
               MessageBox("Security", &
                      "Unable to set security")
       Close(this)
END IF
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

n_cst_selection

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3452')}
{button Functions,JI(`>list_win',`id_pfcoref_3454')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3453')}
```

Description

Selection service. This service provides functions that you can call to display the w_selection dialog box, which allows users to choose a row, which is then passed back to your application.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_tr

n_cst_selectionattrib

w_selection

Usage

To use n_cst_selection functions:

1 Declare a local or instance variable of type n_cst_selection.

2 Establish the information from which the user selects.

3 Call the of_Open function, passing the appropriate arguments.

4 Retrieve the selected row returned by of_Open and continue processing as appropriate.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

n_cst_selection

n_tr

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

n_cst_selection

{button Functions,JI(`>list_win',`id_pfcoref_3454')}

Instance variable	Description	Data type	Access	Usage
is_defaulttitle	Default title for w_selection dialog	String	Protected	Used if you don't specify the title argument

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

n_cst_selection

{button Instance variables,JI(`>list_win',`id_pfcoref_3453')}

of_Open function

N_cst_selection includes a precoded function:

of_Open

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_Open function (n_cst_selection)

{button Object,JI(`>main',`cbbdcgai')}

Opens the w_selection dialog box, allowing the user to choose one or more rows for further processing. There are three syntaxes:

To	Use
Open w_selection, displaying retrieved rows from a DataWindow	Syntax 1
Open w_selection, displaying a passed set of rows	Syntax 2
Open w_selection, displaying data stored with the DataWindow object	Syntax 3

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

Syntax 1 To display retrieved rows for a DataWindow

Syntax 1 To display retrieved rows for a DataWindow

{button Examples,JI(`>Examples',`id_pfcoref_3457')}

Description

Displays the w_selection dialog box retrieving rows from the database for the specified DataWindow object. The user selects a one or more columns in w_selection, which returns selection information for the selected columns.

Access

Public

Syntax

instancename.**of_Open** (*dataobject*, *returnval* {, *transobj* {, *columns* {, *arguments* {, *title* } }})

Argument	Description
instancename	Instance name of n_cst_selection
dataobject	String specifying the DataWindow object that w_selection uses to retrieve and display rows
returnval	Array of the Any data type into which the w_selection dialog box places information for the selected columns (passed by reference)
transobj (optional)	N_tr-based Transaction object specifying an active connection that the w_selection dialog box uses to retrieve rows
columns (optional)	String specifying the DataWindow columns that w_selection returns. The default is the first column
arguments (optional)	Twenty-element array of the Any data type specifying retrieval arguments for *dataobject*
title (optional)	String specifying a title for the w_selection dialog box

Return value

Integer. Returns the number of elements in the *returnval* array if the function succeeds and -1 if an error occurs.

Usage

Call this function when you want the user to choose from a list of values retrieved with the specified DataWindow.

Use Syntax 2 to display passed data in w_selection and Syntax 3 to display data stored in a DataWindow

object.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

Syntax 1 To display retrieved rows for a DataWindow

This example calls the of_Open function:

```
Any   la_values[ ]

String   ls_col[ ]

ls_col[1] = "emp_id"
inv_selection.of_Open("d_emplist", la_values, &
        SQLCA, ls_col)
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

Syntax 2 To display a passed set of rows

Syntax 2 To display a passed set of rows

```
{button Examples,JI(`>Examples',`id_pfcoref_3459')}
```

Description

Displays the w_selection dialog box using rows passed in a function argument. The user selects a one or more columns in w_selection, which returns selection information for the selected columns.

Access

Public

Syntax

instancename.**of_Open** (*dataobject*, *returnval* {, *powerobj* {, *columns* {, *title* } } })

Argument	Description
instancename	Instance name of n_cst_selection
dataobject	String specifying the DataWindow object that w_selection uses to display rows
returnval	Array of the Any data type into which the w_selection dialog box places information for the selected columns (passed by reference)
powerobj *(optional)*	PowerObject array containing data that the w_selection dialog box displays in the *dataobject* DataWindow
columns *(optional)*	String specifying the DataWindow columns that w_selection returns. The default is the first column
title (optional)	String specifying a title for the w_selection dialog box

Return value

Integer. Returns the number of elements in the *returnval* array if the function succeeds and -1 if an error occurs.

Usage

Call this function when you want the user to choose from a list of values in a specified DataWindow. Data for the DataWindow is supplied as a function argument.

Use Syntax 1 to display data retrieved from the database and Syntax 3 to display data stored in a DataWindow object.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

Syntax 2 To display a passed set of rows

This example calls the of_Open function:

```
Any  la_values[ ]

n_cst_selection   lnv_selection
String   ls_colreturn[ ]
Integer   li_return
s_svalue   lstr_svalue[ ]
...
lstr_svalue[1].s_value = "Massachusetts"
lstr_svalue[2].s_value = "Vermont"
lstr_svalue[3].s_value = "New Hampshire"
lstr_svalue[4].s_value = "Maine"
lstr_svalue[5].s_value = "Rhode Island"
lstr_svalue[6].s_value = "Connecticut"
lstr_svalue[7].s_value = "New York"

li_return = lnv_selection.of_Open("d_svalue", &
        la_values, lstr_svalue, ls_colreturn[], &
            "New England States")
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

Syntax 3 To display data stored with the DataWindow object

Syntax 3 To display data stored with the DataWindow object

{button Examples,JI(`>Examples',`id_pfcoref_3461')}

Description

Displays the w_selection dialog box using data stored in the specified DataWindow object. The user selects a one or more columns in w_selection, which returns selection information for the selected columns.

Access

Public

Syntax

instancename.**of_Open** (*dataobject*, *returnval* {, *columns* {, *title* } })

Argument	Description
instancename	Instance name of n_cst_selection
dataobject	String specifying the DataWindow object that w_selection uses to retrieve and display rows
returnval	Array of the Any data type into which the w_selection dialog box places information for the selected columns (passed by reference)
columns *(optional)*	String specifying the DataWindow columns that w_selection returns. The default is the first column
title (optional)	String specifying a title for the w_selection dialog box

Return value

Integer. Returns the number of elements in the *returnval* array.

Usage

Call this function display the w_selection dialog box using data stored in the specified DataWindow object.

Use Syntax 1 to display data retrieved from the database and Syntax 2 to display passed data.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

Syntax 3 To display data stored with the DataWindow object

This example calls the of_Open function:

```
Any   ls_values[ ]


inv_selection.of_Open("d_emplist", ls_values)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

n_cst_sql

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3463')}
{button Functions,JI(`>list_win',`id_pfcoref_3464')}
```

Description

SQL parsing service. This service provides functions that you can call to assemble and parse SQL statements.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_sqlattrib

Usage

To use n_cst_sql functions:

1 Declare a variable of type n_cst_sql:

```
n_cst_sql    inv_sql
```

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements.

2 Call n_cst_sql functions as needed.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

n_cst_sql

n_ds

u_dw

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

n_cst_sql

of_Assemble function

of_Parse function

N_cst_sql includes precoded object functions:

of_Assemble

of_Parse

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_Assemble function (n_cst_sql)

{button Object,JI(`>main',`cbbbeich')} {button Examples,JI(`>Examples',`id_pfcoref_3466')}

Description

Builds a SQL statement from its component parts.

Access

Public

Syntax

instancename.**of_Assemble** (*components*)

Argument	Description
instancename	Instance name of n_cst_sql
components	Array of n_cst_sqlattrib structures, each element of which contains a SQL statement that the function combines using a UNION statement

Return value

String. Returns the completed SQL statement. An empty string indicates an error.

Usage

Although the *components* argument uses an array, you need to use the first element only if the SQL statement contains no UNION statements.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_Assemble function (n_cst_sql)

This example calls the of_Assemble function. It assumes an inv_sql instance variable:

```
String   ls_sql

n_cst_sqlattrib   lnv_sqlattrib[ ]

lnv_sqlattrib[1].s_verb = sle_verb.text
lnv_sqlattrib[1].s_tables = sle_tables.text
lnv_sqlattrib[1].s_columns = sle_columns.text
lnv_sqlattrib[1].s_values = sle_values.text
lnv_sqlattrib[1].s_where = sle_where.text
lnv_sqlattrib[1].s_order = sle_order.text
lnv_sqlattrib[1].s_group = sle_group.text
lnv_sqlattrib[1].s_having = sle_having.text

ls_sql = inv_sql.of_Assemble(lnv_sqlattrib)
MessageBox("SQL", ls_sql)
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_Parse function (n_cst_sql)

```
{button Object,JI(`>main',`cbbbeich')} {button
Examples,JI(`>Examples',`id_pfcoref_3468')}
```

Description

Separates a SQL statement into its component parts.

Access

Public

Syntax

instancename.**of_Parse** (*statement*, *components*)

Argument	Description
instancename	Instance name of n_cst_sql
statement	String containing the SQL statement to be separated
components	Array of type n_cst_sqlattrib into which the function places SQL statement components (passed by reference)

Return value

Integer. Returns the number of elements in the *components* array.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's

Advanced Project Analyzer

of_Parse function (n_cst_sql)

This example calls the of_Parse function. It assumes a single element in the lstr_sql array and an inv_sql instance variable:

```
String   ls_sql

n_cst_sqlattrib   lnv_sqlattrib[ ]
Integer   li_return

li_return = inv_sql.of_Parse &
        (mle_sql.text, lnv_sqlattrib)
IF li_return > 0 THEN
        sle_verb.text= lnv_sqlattrib[1].s_verb
        sle_tables.text = lnv_sqlattrib[1].s_tables
        sle_columns.text = lnv_sqlattrib[1].s_columns
        sle_values.text = lnv_sqlattrib[1].s_values
        sle_where.text = lnv_sqlattrib[1].s_where
        sle_order.text = lnv_sqlattrib[1].s_order
        sle_group.text = lnv_sqlattrib[1].s_group
        sle_having.text= lnv_sqlattrib[1].s_having
END IF
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_cst_sqlspy

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3470')}
{button Functions,JI(`>list_win',`id_pfcoref_3471')}
```

Description

SQL Spy debugging service, a development tool that helps you debug applications by logging and optionally displaying the SQL that DataWindows submit to the database. Do not use this functionality in production applications.

N_cst_sqlspy includes instance variables as well as precoded events and functions. This discussion describes only those functions you code in a typical application.

For complete information on using SQL Spy, see the PFC User's Guide.

Ancestry

Library

PF

PFCUTIL.PBL

PFEUTIL.PBL

Object relationships

d_sqlspyprint

n_cst_conversion

n_ds

w_sqlspy

w_sqlspyinspect

Usage

You typically call most n_cst_sqlspy functions from within the application manager. To use SQL Spy:

1 Enable the debugging service by calling the n_cst_appmanager of_SetDebug function:

```
this.of_SetDebug(TRUE)
```

2 Enable SQL Spy by calling the n_cst_debug of_SetSQLSpy function:

```
this.inv_debug.of_SetSQLSpy(TRUE)
```

3 Specify the log file by calling the n_cst_sqlspy of_SetLogFile function:

```
this.inv_debug.inv_sqlspy.of_SetLogFile &

                    ("c:\debug\temp\appdbug.log")
```

4 Call other n_cst_sqlspy functions, as necessary to log and optionally display DataWindow update SQL.

Created with the Personal Edition of HelpNDoc: Qt Help documentation made easy

n_cst_sqlspy

n_cst_appmanager

n_cst_debug

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_sqlspy

of_GetAlwaysOnTop function

of_OpenSQLSpy function

of_SetAlwaysOnTop function

of_SetBatchMode function

of_SetLogFile function

of_SQLSyntax function

N_cst_sqlspy includes many precoded object functions. The functions you call from an application are documented here:

of_GetAlwaysOnTop
of_OpenSQLSpy
of_SetAlwaysOnTop
of_SetBatchMode
of_SetLogFile
of_SQLSyntax

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetAlwaysOnTop function (n_cst_sqlspy)

{button Object,JI(`>main',`cbbccajf')} {button Examples,JI(`>Examples',`id_pfcoref_3473')}

Description

Reports whether the w_sqlspy window always displays on top of other windows.

Access

Public

Syntax

application.debug.sqlspy.**of_GetAlwaysOnTop** ( )

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)

Return value

Boolean. Returns TRUE if the w_sqlspy window is always on top and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_GetAlwaysOnTop function (n_cst_sqlspy)

This example calls the of_GetAlwaysOnTop function:

```
Boolean  ib_ontop


ib_ontop = &
        gnv_app.inv_debug.inv_sqlspy.of_GetAlwaysOnTop()
...
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_OpenSQLSpy function (n_cst_sqlspy)

```
{button Object,JI(`>main',`cbbccajf')} {button
Examples,JI(`>Examples',`id_pfcoref_3475')}
```

Description

Opens or closes the w_sqlspy window. This window displays the contents of the log file specified in the of_SetLogFile function.

Access

Public

Syntax

*application.debug.sqlspy.***of_OpenSQLSpy** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)
boolean	Boolean specifying whether to open (TRUE) or close (FALSE) the w_sqlspy window

Return value

Integer. Returns 1 if the function succeeds, -1 if an error occurs, and 0 if no action is taken.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_OpenSQLSpy function (n_cst_sqlspy)

This example calls the of_OpenSQLSpy function:

```
gnv_app.inv_debug.inv_sqlspy.of_OpenSQLSpy(TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetAlwaysOnTop function (n_cst_sqlspy)

{button Object,JI(`>main',`cbbccajf')} {button Examples,JI(`>Examples',`id_pfcoref_3477')}

Description

Controls whether the w_sqlspy window always displays on top of other windows.

Access

Public

Syntax

*application.debug.sqlspy.***of_SetAlwaysOnTop** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)
boolean	Boolean indicating whether to always display w_sqlspy on top of other windows (TRUE) or to let other windows display on top of w_sqlspy (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_SetAlwaysOnTop function (n_cst_sqlspy)

This example calls the of_SetAlwaysOnTop function:

```
...

gnv_app.inv_debug.inv_sqlspy.of_SetAlwaysOnTop &
     (FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_SetBatchMode function (n_cst_sqlspy)

```
{button Object,JI(`>main',`cbbccajf')} {button
Examples,JI(`>Examples',`id_pfcoref_3479')}
```

Description

Controls whether the service displays the w_sqlspyinspect dialog box before updating the database. This dialog box displays the SQL to be submitted to the database.

Access

Public

Syntax

*application.debug.sqlspy.***of_SetBatchMode** (*boolean*)

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)
boolean	Boolean indicating whether to display the w_sqlspyinspect dialog box (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Add an Extra Layer of Security to Your PDFs with Encryption

of_SetBatchMode function (n_cst_sqlspy)

This example calls the of_SetBatchMode function:

```
gnv_app.inv_debug.inv_sqlspy.of_SetBatchMode &

          (FALSE)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetLogFile function (n_cst_sqlspy)

```
{button Object,JI(`>main',`cbbccajf')} {button
Examples,JI(`>Examples',`id_pfcoref_3481')}
```

Description

Specifies the file into which the SQL Spy service logs DataWindow SQL.

Access

Public

Syntax

application.debug.sqlspy.**of_SetLogFile** (*logfile*)

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)
logfile	Fully qualified name of the file into which the SQL Spy service copies DataWindow update SQL and other information

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function with an empty string to disable log file processing.

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_SetLogFile function (n_cst_sqlspy)

This example calls the of_SetLogFile function:

```
this.inv_debug.inv_sqlspy.of_SetLogFile &

        ("c:\debug\temp\appdbug.log")
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SQLSyntax function (n_cst_sqlspy)

```
{button Object,JI(`>main',`cbbccajf')} {button
Examples,JI(`>Examples',`id_pfcoref_3483')}
```

Description

Specifies SQL syntax to be copied to the log file, optionally displaying it in the w_sqlspyinspect dialog box.

Access

Public

Syntax

application.debug.sqlspy.**of_SQLSyntax** (*heading* {, *sql* {, *oktopause* } })

Argument	Description
application	Global variable of type n_cst_appmanager (this must be gnv_app)
debug	Instance name of n_cst_debug (the n_cst_appmanager default is inv_debug)
sqlspy	Instance name of n_cst_sqlspy (the n_cst_debug default is inv_sqlspy)
heading	String specifying a heading for the log file
sql (optional)	String specifying the SQL statement to be logged
oktopause (optional)	Boolean specifying whether to pause statement execution for display in the w_sqlspyinspect dialog box. The default is FALSE

Return value

Integer. Returns values as follows:

- 2 Function succeeded; do not process this statement
- 1 Function succeeded; do not process other pending updates
- 0 Function succeeded; continue processing DataWindow updates
- -1 Error

Usage

The SQL Spy service calls this function automatically for all DataWindow and EXEC IMMEDIATE statements automatically. You can call it to log native SQL statements.

To display the statement in the w_sqlspyinspect dialog box, *oktopause* must be TRUE and batch mode must have been disabled previously by calling the of_SetBatchMode(FALSE) function

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_SQLSyntax function (n_cst_sqlspy)

This example calls the of_SQLSyntax function:

```
String   ls_sql


ls_sql = "SELECT * FROM employee;"
gnv_app.inv_debug.inv_sqlspy.of_SQLSyntax &
        ("Native SQL", ls_sql, TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

n_cst_stack

```
{button Ancestor,JI(`>main',`biicgiaj')} {button See also,PI(`',`id_pfcoref_3485')}
{button Functions,JI(`>list_win',`id_pfcoref_3486')}
```

Description

Stack processing object. Nodes in a stack are accessed on a last-in, first-out (LIFO) basis. When you add a new node to the stack, n_cst_stack places it at the beginning of the list; when you get a node from the stack, n_cst_stack accesses it from the beginning of the list, removing it in the process.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_linkedlistnode

Usage

Use this object to handle list processing for LIFO lists (stacks).

To use n_cst_stack:

1 Create an instance of n_cst_stack. This example declares a window instance variable:

```
n_cst_stack  inv_stack
```

2 Add nodes to the stack. To do this, first create a node, specify a key and data, then call the of_Push function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_stack.of_Push(lnv_node)
```

3 Access and remove items from the queue as appropriate by calling the of_Pop function. This example displays the key in a MessageBox:

```
Any la_key

n_cst_linkedlistnode lnv_node
```

```
inv_stack.of_Pop(lnv_node)
IF IsValid(lnv_node) THEN
   lnv_node.of_GetKey(la_key)
   MessageBox("Stack", &
      "Key is " + String(la_key))
ELSE
   MessageBox("Stack", "Stack is empty")
END IF
```

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_stack

n_cst_linkedlistnodecompare

n_cst_list

n_cst_queue

n_cst_tree

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_stack

of_Pop function

of_Push function

N_cst_stack includes precoded object functions:

of_Pop

of_Push

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_Pop function (n_cst_stack)

{button Object,JI(`>main',`biibafej')} {button Examples,JI(`>Examples',`id_pfcoref_3488')}

Description

Retrieves the top node in the stack, removing it from the stack.

Access

Public

Syntax

instancename.**of_Pop** (*node*)

Argument	Description
instancename	Instance name of n_cst_stack
node	N_cst_linkedlistnode instance into which the function places a reference to the top node in the stack (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_Pop function (n_cst_stack)

This example calls the of_Pop function:

```
Any la_key

n_cst_linkedlistnode lnv_node

inv_stack.of_Pop(lnv_node)
IF IsValid(lnv_node) THEN
   lnv_node.of_GetKey(la_key)
   MessageBox("Stack", &
      "Key is " + String(la_key))
ELSE
   MessageBox("Stack", "Stack is empty")
END IF
```

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_Push function (n_cst_stack)

```
{button Object,JI(`>main',`biibafej')} {button
Examples,JI(`>Examples',`id_pfcoref_3490')}
```

Description

Adds a node to the top of the stack.

Access

Public

Syntax

instancename.**of_Push** (*node*)

Argument	Description
instancename	Instance name of n_cst_stack
node	N_cst_linkedlistnode instance to add to the top of the stack

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Before calling this function, create the node, add key information, and add data.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_Push function (n_cst_stack)

This example calls the of_Push function:

```
n_cst_linkedlistnode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_linkedlistnode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_stack.of_Push(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

n_cst_string

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3492')}
{button Functions,JI(`>list_win',`id_pfcoref_3493')}
```

Description

String parsing service. This service provides functions that you can call to manipulate string data.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_numerical

Usage

To use string functions:

1 Declare a variable of type n_cst_string:

```
n_cst_string    inv_string
```

Because PFC defines this object with the autoinstantiate option, you don't need to code CREATE or DESTROY statements.

2 Call string service functions as needed.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

n_cst_string

n_cst_conversion

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

n_cst_string

of_ArrayToString function
of_CountOccurrences function
of_GetKeyValue function
of_GetToken function
of_GlobalReplace function
of_IsAlpha function
of_IsAlphaNum function
of_IsArithmeticOperator function
of_IsComparisonOperator function
of_IsEmpty function
of_IsFormat function
of_IsLower function
of_IsPrintable function
of_IsPunctuation function
of_IsSpace function
of_IsUpper function
of_IsWhiteSpace function
of_LastPos function
of_LeftTrim function
of_PadLeft function
of_PadRight function
of_ParseToArray function
of_Quote function
of_RemoveNonPrint function
of_RemoveWhiteSpace function
of_RightTrim function

of_SetKeyValue function

of_Trim function

of_WordCap function

N_cst_string includes precoded object functions:

- of_ArrayToString
- of_CountOccurrences
- of_GetKeyValue
- of_GetToken
- of_GlobalReplace
- of_IsAlpha
- of_IsAlphaNum
- of_IsArithmeticOperator
- of_IsComparisonOperator
- of_IsEmpty
- of_IsFormat
- of_IsLower
- of_IsPrintable
- of_IsPunctuation
- of_IsSpace
- of_IsUpper
- of_IsWhiteSpace
- of_LastPos
- of_LeftTrim
- of_PadLeft
- of_PadRight
- of_ParseToArray
- of_Quote
- of_RemoveNonPrint
- of_RemoveWhiteSpace
- of_RightTrim
- of_SetKeyValue
- of_Trim
- of_WordCap

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_ArrayToString function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3495')}

Description

Creates a single string from an array of strings.

Access

Public

Syntax

instancename.**of_ArrayToString** (*source*, *delimiter*, *{processempty} target*)

Argument	Description
instancename	Instance name of n_cst_string
source	String array to be converted into a single string
delimiter	String specifying the delimiter the function places between array elements
processempty	Boolean allowing processing of empty string arguments if true
target	String to contain the *source* array (passed by reference)

Return value

Long. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

of_ArrayToString function (n_cst_string)

This example calls the of_ArrayToString function:

```
String   ls_array[ ], ls_single

Long    ll_return
String  ls_delimiter = "~t"

// logic to populate ls_array
...
ll_return = inv_string.of_ArrayToString &
        (ls_array, ls_delimiter, ls_single)
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_CountOccurrences function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3497')}
```

Description

Counts the number of occurrences of one string within another string.

Access

Public

Syntax

instancename.**of_CountOccurrences** (*source*, *target* {, *ignorecase* })

Argument	Description
instancename	Instance name of n_cst_string
source	String to be searched
target	String to search for
ignorecase (optional)	Boolean indicating whether to search for exact upper-lowercase match. The default is TRUE

Return value

Long. Returns the number of occurrences of *target* within *source*.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_CountOccurrences function (n_cst_string)

This example calls the of_CountOccurrences function:

```
String   ls_source, ls_target

Long  ll_count

ls_source = mle_source.text
ls_target = mle_target.text
ll_count = inv_string.of_CountOccurrences &
        (ls_source, ls_target, TRUE)
```

```
MessageBox("String", String(ll_count) &
         " occurrences of " + ls_target &
        + " within " + ls_source )
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_GetKeyValue function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3499')}

Description

Retrieves the right side of a *keyword=value* string.

Access

Public

Syntax

instancename.**of_GetKeyValue** (*source*, *keyword*, *separator*)

Argument	Description
instancename	Instance name of n_cst_string
source	String containing the complete expression
keyword	String containing the keyword to be searched for
separator	String containing the separator character in *source*

Return value

String. Returns the value corresponding to *keyword*. If *keyword* is not in *source*, the function returns an empty string; if any argument's value is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetKeyValue function (n_cst_string)

This example is from the w_sheet pfc_ControlGotFocus event:

```
String   ls_microhelp

n_cst_string   lnv_string
...
ls_microhelp = lnv_string.of_GetKeyValue &
        (idrg_current.tag, "microhelp", ";")
...
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetToken function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3501')}

Description

Retrieves the token from a passed string. This function receives as arguments a string from which the token is to be removed (from the left) and the separator character.

What is a token? A token is a collection of characters separated by a delimiter.

If the separator character appears in the string, the function returns the token, not including the separator character. If the separator character does not appear in the string, the function returns the entire string. In either case, the source string is truncated on the left by the length of the token and separator character if any.

Access

Public

Syntax

instancename.**of_GetToken** (*source*, *separator*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be parsed (passed by reference)
separator	String containing the separator

Return value

String. Returns the token if *separator* is found within *source* and returns the entire *source* if *separator* is not found.

Usage

Call this function to break up strings with embedded values into multiple separate strings.

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

of_GetToken function (n_cst_string)

This example calls the of_GetToken function:

```
String  ls_parm[ ], ls_type, ls_colname, ls_level

Integer  li_args, li_cnt, li_p1, li_p2, li_level
n_cst_string  lnv_string

// Parse the comma-delimited string
li_args = 1
ls_parm[li_args] = &
Trim(lnv_string.of_GetToken(as_args, ","))
DO WHILE Len(as_args) > 0
        li_args ++
        ls_parm[li_args] = &
       Trim(lnv_string.of_GetToken(as_args, ","))
Loop
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GlobalReplace function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3503')}
```

Description

Replaces all occurrences of one string within another string.

Access

Public

Syntax

instancename.**of_GlobalReplace** (*source*, *lookfor*, *replacewith* {, *ignorecase*})

Argument	Description
instancename	Instance name of n_cst_string
source	String to be searched
lookfor	String to be found
replacewith	String used to replace *lookfor*
ignorecase (optional)	Boolean indicating whether to search for exact upper-lowercase match. The default is TRUE

Return value

String. Returns *source* with all occurrences of *lookfor* replaced with *replacewith*.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GlobalReplace function (n_cst_string)

This example calls the of_GlobalReplace function:

```
String   ls_source, ls_original

String   ls_replace, ls_new

ls_source = mle_source.text
ls_original = mle_original.text
ls_replace = mle_replacement.text
ls_new = inv_string.of_GlobalReplace &
        ls_source, ls_original, ls_replace)
MessageBox("String", "New String is: " &
        + ls_new )
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_IsAlpha function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3505')}
```

Description

Reports whether a passed string contains only alphabetic characters (a-z and A-Z.)

Access

Public

Syntax

instancename.**of_IsAlpha** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only alphabetic characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_IsAlpha function (n_cst_string)

This example calls the of_IsAlpha function:

```
String   ls_source


ls_source = mle_source.text
IF inv_string.of_IsAlpha(ls_source) THEN
        MessageBox("String", ls_source &
        + " contains only alphabetic characters")
ELSE
        MessageBox("String", ls_source &
       + " contains nonalphabetic characters")
END IF
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_IsAlphaNum function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3507')}
```

Description

Reports whether a passed string contains only alphanumeric characters (a-z, A-Z, and 0-9.)

Access

Public

Syntax

instancename.**of_IsAlphaNum** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only alphanumeric characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_IsAlphaNum function (n_cst_string)

This example calls the of_IsAlphaNum function:

```
String   ls_source


ls_source = mle_source.text
IF inv_string.of_IsAlphaNum(ls_source) THEN
        MessageBox("String", ls_source &
       + " contains only alphanumeric characters")
ELSE
        MessageBox("String", ls_source &
       + " contains nonalphanumeric characters")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_IsArithmeticOperator function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3509')}

Description

Reports whether a passed string contains only arithmetic operator characters. Arithmetic operator characters are (,), +, -, *, /, and ^.

Access

Public

Syntax

instancename.**of_IsArithmeticOperator** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only arithmetic operator characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Step-by-Step Guide: How to Turn Your Word Document into an eBook

of_IsArithmeticOperator function (n_cst_string)

This example calls the of_IsArithmeticOperator function:

```
String   ls_source


ls_source = mle_source.text
IF inv_string.of_IsArithmeticOperator(ls_source) THEN
        MessageBox("String", ls_source &
        + " contains only arithmetic operators")
...
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_IsComparisonOperator function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3511')}
```

Description

Reports whether a passed string contains only comparison operator characters. Comparison operator characters are <, >, and =.

Access

Public

Syntax

instancename.**of_IsComparisonOperator** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only comparison operator characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_IsComparisonOperator function (n_cst_string)

This example calls the of_IsComparisonOperator function:

```
String   ls_source


ls_source = mle_source.text
IF inv_string.of_IsComparisonOperator(ls_source) &
        THEN
       MessageBox("String", ls_source &
          + " contains only comparison operators")
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_IsEmpty function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3513')}
```

Description

Reports whether a passed string is either empty or NULL.

Access

Public

Syntax

instancename.**of_IsEmpty** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* is empty or NULL and FALSE if it is neither.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_IsEmpty function (n_cst_string)

This example calls the of_IsEmpty function:

```
String    ls_source


ls_source = sle_directory.text
IF inv_string.of_IsEmpty(ls_source) THEN
        MessageBox("String", &
       "You must specify a directory.")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_IsFormat function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3515')}
```

Description

Reports whether a passed string contains only format characters. Format characters are all nonalphanumeric printable characters.

Access

Public

Syntax

instancename.**of_IsFormat** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only format characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_IsFormat function (n_cst_string)

This example calls the of_IsFormat function:

```
String    ls_source


ls_source = mle_source.text
IF inv_string.of_IsFormat(ls_source) THEN
        MessageBox("String", ls_source &
       + " contains only format characters")
...
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_IsLower function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3517')}
```

Description

Reports whether the alphabetic characters in a passed string are all lowercase.

Access

Public

Syntax

instancename.**of_IsLower** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if the alphabetic characters in *source* are all lowercase and FALSE if they are not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_IsLower function (n_cst_string)

This example calls the of_IsLower function:

```
String    ls_source


ls_source = mle_source.text
IF inv_string.of_IsAlpha(ls_source) THEN
        IF inv_string.of_IsLower(ls_source) THEN
       MessageBox("String", ls_source &
          + " contains only lowercase letters")
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_IsPrintable function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3519')}
```

Description

Reports whether a passed string contains only printable characters (ASCII 32 through ASCII 126).

Access

Public

Syntax

instancename.**of_IsPrintable** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only printable characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_IsPrintable function (n_cst_string)

This example is from the of_LeftTrim function:

```
Character    lc_char

Boolean      lb_char
...
DO WHILE Len(as_source) > 0 AND NOT lb_char
        lc_char = as_source
       IF of_IsPrintable(lc_char) AND &
          NOT of_IsSpace(lc_char) THEN
             lb_char = TRUE
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_IsPunctuation function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3521')}
```

Description

Reports whether a passed string contains only punctuation characters. Punctuation characters are ! " ' . : ; ? and the comma.

Access

Public

Syntax

instancename.**of_IsPunctuation** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only punctuation characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_IsPunctuation function (n_cst_string)

This example calls the of_IsPunctuation function:

```
String    ls_source


ls_source = mle_source.text
IF inv_string.of_IsPunctuation(ls_source) THEN
        MessageBox("String", ls_source &
       + " contains only punctuation")
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_IsSpace function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3523')}
```

Description

Reports whether a passed string contains only spaces.

Access

Public

Syntax

instancename.**of_IsSpace** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only spaces and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_IsSpace function (n_cst_string)

This example calls the of_IsSpace function:

```
String    ls_source


ls_source = sle_directory.text
IF inv_string.of_IsEmpty(ls_source) OR &
        inv_string.of_IsSpace(ls_source) THEN
       MessageBox("String", &
          "You must specify a directory.")
        Return
END IF
...
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_IsUpper function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3525')}

Description

Reports whether the alphabetic characters in a passed string are all uppercase.

Access

Public

Syntax

instancename.**of_IsUpper** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if the alphabetic characters in *source* are all uppercase and FALSE if they are not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_IsUpper function (n_cst_string)

This example calls the of_IsUpper function:

```
String    ls_source


ls_source = mle_source.text
IF inv_string.of_IsAlpha(ls_source) THEN
        IF inv_string.of_IsUpper(ls_source) THEN
       MessageBox("String", ls_source &
          + " contains only uppercase letters")
...
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_IsWhiteSpace function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3527')}
```

Description

Reports whether a passed string contains only whitespace characters (newline, tab, vertical tab, carriage return, form feed, backspace, and space).

Access

Public

Syntax

instancename.**of_IsWhiteSpace** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be tested

Return value

Boolean. Returns TRUE if *source* contains only whitespace characters and FALSE if it does not. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_IsWhiteSpace function (n_cst_string)

This example calls the of_IsWhiteSpace function:

```
String   ls_source


ls_source = mle_source.text
IF inv_string.of_IsWhiteSpace(ls_source) THEN
        MessageBox("String", ls_source &
       + " contains only whitespace")

...
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_LastPos function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3529')}
```

Description

Searches backward through a string to find the last occurrence of another string.

Access

Public

Syntax

instancename.**of_LastPos** (*source*, *target* {, *start* })

Argument	Description
instancename	Instance name of n_cst_string
source	String containing the complete expression
target	String containing the expression to be searched for
start (optional)	Long specifying the starting position. The default is 0 (start with the last character)

Return value

Long. Returns the position of the leftmost character of the last occurrence of *target* if it is found and 0 if *target* is not found.

Usage

This function complements the PowerScript Pos function, which finds the first occurrence of one string within another string.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_LastPos function (n_cst_string)

This example is from the n_cst_filesrv of_ParsePath function:

```
Integer  li_pos

String   ls_file
n_cst_string  lnv_string
...
// Get the file name and extension.
li_pos = lnv_string.of_LastPos &
        (as_path, is_separator, 0)
ls_file = Right(as_path, (Len(as_path) - li_pos))
as_path = Left(as_path, li_pos)
...
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_LeftTrim function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3531')}
```

Description

Removes spaces and nonprintable characters from the beginning of a string.

Access

Public

Syntax

instancename.**of_LeftTrim** (*source* {, *removespaces* {, *removenonprintable* } })

Argument	Description
instancename	Instance name of n_cst_string
source	String to be trimmed

removespaces (optional)	Boolean specifying whether to remove spaces. The default is TRUE
removenonprintable (optional)	Boolean specifying whether to remove nonprintable characters (for example, newline, tab, and carriage return). The default is FALSE

Return value

String. Returns *source* with the specified characters removed. If any argument's value is NULL, the function returns NULL.

Usage

This function complements the PowerScript Trim function, which removes both leading and trailing spaces from a string.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_LeftTrim function (n_cst_string)

This example calls the of_LeftTrim function:

```
...

IF ll_first > 0 and ll_last > 0 THEN
        ls_line = lnv_string.of_LeftTrim &
       (ls_line, TRUE, TRUE)
        IF Left (ls_line, 1) = "[" THEN
       ll_pos = Pos (ls_line, "]")
...
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_PadLeft function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3533')}
```

Description

Pads a string with spaces on the left until it is a specified length.

Access

Public

Syntax

instancename.**of_PadLeft** (*source*, *length*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be expanded
length	Long specifying the new length

Return value

String. Returns *source* with left-padded spaces to make it a *length* characters long. If any argument's value is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_PadLeft function (n_cst_string)

This example calls the of_PadLeft function:

```
String   ls_source, ls_new


ls_source = mle_source.text
ls_new = inv_string.of_PadLeft(ls_source, 40)
MessageBox("String", "Original is: '" &
        + ls_source + "' ~r~nPadded string is: '" &
        + ls_new + "'" )
```

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_PadRight function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3535')}
```

Description

Pads a string with spaces on the right until it is a specified length.

Access

Public

Syntax

instancename.**of_PadRight** (*source*, *length*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be expanded
length	Long specifying the new length

Return value

String. Returns *source* with right-padded spaces to make it a *length* characters long. If any argument's value is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_PadRight function (n_cst_string)

This example calls the of_PadRight function:

```
String   ls_source, ls_new


ls_source = mle_source.text
ls_new = inv_string.of_PadRight(ls_source, 40)
MessageBox("String", "Original is: '" &
        + ls_source + "' ~r~nPadded string is: '" &
        + ls_new + "'" )
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP

to CHM conversion feature

of_ParseToArray function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3537')}
```

Description

Parses a string into array elements, based on a delimiter string.

Access

Public

Syntax

instancename.**of_ParseToArray** (*source*, *delimiter*, *array*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be converted into an array
delimiter	String specifying the character(s) that separate array elements in *source*
array	String array into which the function places the extracted strings (passed by reference)

Return value

Long. Returns the number of elements in *array*. If *source* or *delimiter* are NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_ParseToArray function (n_cst_string)

This example is from the n_cst_sql of_Parse function:

```
Integer  li_len, li_pos, li_kwnum, li_numstats


Integer  li_cnt
String   ls_uppersql, ls_keyword[7], ls_clause[7]
String   ls_sql[ ]
n_cst_string  lnv_string

// Separate the statement into multiple statements,
// Separated by UNIONs
li_numstats = lnv_string.of_Parsetoarray &
        (as_sql, "UNION", ls_sql)
...
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_Quote function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3539')}
```

Description

Encloses a string in double quotes.

Access

Public

Syntax

instancename.**of_Quote** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be enclosed in double quotes

Return value

String. Returns *source* enclosed in double quotes.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_Quote function (n_cst_string)

This example calls the of_Quote function:

```
String  ls_source, ls_new


ls_source = mle_source.text
ls_new = inv_string.of_Quote(ls_source)
MessageBox("String", "Original is: " &
        + ls_source + "~r~nNew String is: " &
        + ls_new)
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_RemoveNonPrint function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3541')}
```

Description

Removes all nonprintable characters from a string. Nonprintable characters are:

ASCII 31 and lower

ASCII 127 and higher

Access

Public

Syntax

instancename.**of_RemoveNonPrint** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String from which the function removes nonprintable characters

Return value

String. Returns *source* with nonprintable characters removed. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_RemoveNonPrint function (n_cst_string)

This example calls the of_RemoveNonPrint function:

```
...

inv_string.of_RemoveNonPrint &
   (ls_original[li_count])
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_RemoveWhiteSpace function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3543')}
```

Description

Removes all whitespace characters from a string. Whitespace characters are newline, tab, vertical tab, carriage return, form feed, backspace, and space.

Access

Public

Syntax

instancename.**of_RemoveWhiteSpace** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String from which the function removes whitespace characters

Return value

String. Returns *source* with whitespace characters removed. If *source* is NULL, the function returns NULL.

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_RemoveWhiteSpace function (n_cst_string)

This example calls the of_RemoveWhiteSpace function:

```
String   ls_original[ ]

Integer  li_return, li_count

li_return = inv_filesrv.of_FileRead &
        (sle_file.text, ls_original)
```

```
CHOOSE CASE li_return
        CASE -1
       MessageBox("Error", "Error accessing file")
        CASE ELSE
       FOR li_count = 1 to li_return
          mle_target.text = mle_target.text + &
             inv_string.of_RemoveWhiteSpace &
                (ls_original[li_count])
        NEXT
END CHOOSE
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_RightTrim function (n_cst_string)

{button Object,JI(`>main',`cdeeacaj')} {button Examples,JI(`>Examples',`id_pfcoref_3545')}

Description

Removes spaces and nonprintable characters from the end of a string.

Access

Public

Syntax

instancename.**of_RightTrim** (*source* {, *removespaces* {, *removenonprintable* } })

Argument	Description
instancename	Instance name of n_cst_string
source	String to be trimmed
removespaces (optional)	Boolean specifying whether to remove spaces. The default is TRUE
removenonprintable (optional)	Boolean specifying whether to remove nonprintable characters (for example, newline, tab, and carriage return). The default is FALSE

Return value

String. Returns *source* with the specified characters removed. If any argument's value is NULL, the function returns NULL.

Usage

This function complements the PowerScript Trim function, which removes both leading and trailing spaces from a string.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_RightTrim function (n_cst_string)

This example is from the n_cst_string of_Trim function:

```
...

IF ab_remove_spaces and ab_remove_nonprint THEN
// Remove spaces and nonprintable characters.
        as_source = of_LeftTrim(as_source, &
        ab_remove_spaces, ab_remove_nonprint)
```

```
        as_source = of_RightTrim(as_source, &
...
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetKeyValue function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3547')}
```

Description

Sets the value portion of a *keyword=value* expression.

Access

Public

Syntax

instancename.**of_SetKeyValue** (*source*, *keyword*, *newvalue*, *separator*)

Argument	Description
instancename	Instance name of n_cst_string
source	String whose value is to be set (passed by reference)
keyword	String specifying the keyword whose value will be set
newvalue	String containing the new value
separator	String specifying the separator character in *source*

Return value

Long. Returns 1 if the function succeeds, -1 if an error occurs, and NULL if any argument's value is NULL.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_SetKeyValue function (n_cst_string)

This example calls the of_SetKeyValue function:

```
...

ls_key = inv_string.of_GetToken(ls_temp, "=")
li_return = inv_string.of_SetKeyValue &
        (ls_source, ls_key, ls_value, "=")
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_Trim function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3549')}
```

Description

Removes spaces and nonprintable characters from the left and right end of a string.

Access

Public

Syntax

instancename.**of_Trim** (*source* {, *removespaces* {, *removenonprintable* } })

Argument	Description
instancename	Instance name of n_cst_string
source	String to be trimmed
removespaces (optional)	Boolean specifying whether to remove spaces. The default is TRUE
removenonprintable (optional)	Boolean specifying whether to remove nonprintable characters (for example, newline, tab, and carriage return). The default is FALSE

Return value

String. Returns *source* with the specified characters removed. If any argument's value is NULL, the function returns NULL.

Usage

This function complements the PowerScript Trim function, which does not remove nonprintable characters.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_Trim function (n_cst_string)

This example calls the of_Trim function:

```
String   ls_key, ls_line

n_cst_string   lnv_string
Integer  li_keys
Long     ll_equal
...
ls_key = lnv_string.of_Trim &
        (Left (ls_line, ll_equal - 1), TRUE, TRUE)
IF Len (ls_key) > 0 THEN
        li_keys++
       as_keys[li_keys] = ls_key
END IF
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_WordCap function (n_cst_string)

```
{button Object,JI(`>main',`cdeeacaj')} {button
Examples,JI(`>Examples',`id_pfcoref_3551')}
```

Description

Sets the first letter of each word in a string to uppercase and all remaining letters to lowercase.

Access

Public

Syntax

instancename.**of_WordCap** (*source*)

Argument	Description
instancename	Instance name of n_cst_string
source	String to be converted

Return value

String. Returns *source* with all words set to initial cap.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_WordCap function (n_cst_string)

This example calls the of_WordCap function:

```
String   ls_source, ls_new


ls_source = mle_source.text
ls_new = inv_string.of_WordCap(ls_source)
mle_target.text = ls_new
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

n_cst_tmgmultiple

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3553')}
{button Functions,JI(`>list_win',`id_pfcoref_3559')} {button
Events,JI(`>list_win',`id_pfcoref_3555')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3554')}
```

Description

Timing service (multiple timers). Use this service to maintain an unlimited number of timers triggered at specified intervals (with a one second granularity).

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_datetime

n_ds

n_tmg

n_tmgregisterattrib

Usage

Use this service to implement multiple timers. To use this service:

1 Establish an instance variable of type n_tmg:

```
n_tmg itmg_timer
```

2 Create the instance of n_tmg:

```
itmg_timer = CREATE n_tmg
```

3 Enable the multiple timer service:

```
itmg_timer.of_SetMultiple(TRUE)
```

4 Register the objects and events to be notified (window are the objects in this example):

```
itmg_timer.inv_multiple.of_Register  &

            (this, "ue_timer1", 5)
itmg_timer.inv_multiple.of_Register  &
            (this, "ue_timer2", 10)
itmg_timer.inv_multiple.of_Register  &
            (this, "ue_timer3", 30)
```

5 Code the events to receive notification from n_cst_tmgmultiple (ue_timer1, ue_timer2, and ue_timer3

in this example):

6 (optional) Unregister objects and events:

```
itmg_timer.inv_multiple.of_UnRegister()
```

This service is for use with n_tmg, the PFC timing object.

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

n_cst_tmgmultiple

n_cst_tmgsingle

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

n_cst_tmgmultiple

{button Functions,JI(`>list_win',`id_pfcoref_3559')} {button Events,JI(`>list_win',`id_pfcoref_3555')}

N_cst_tmgmultiple includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autodisable	Indicates whether the service enables autodisable	Boolean	Protected	Set with of_SetAutoDisable
ib_disabled	Indicates whether a notification can occur	Boolean	Protected	Set with of_SetDisabled
ids_list	DataStore containing information on registered objects	n_ds	Protected	Internal
il_interval	Timer interval	Long	Protected	Access with of_GetInterval
inv_datetime	DateTime service	n_cst_datetime	Protected	Internal
inv_tmgregister[ ]	Information on registered objects	n_cst_tmgregistrattrib	Protected	Internal
itmg_requestor	N_tmg instance that owns the n_cst_tmgmultiple instance	n_tmg	Protected	Internal
POSTEVENT	Constant set to 1	Integer	Public	Use with of_Register
TRIGGEREVENT	Constant set to 0	Integer	Public	Use with of_Register

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

n_cst_tmgmultiple

{button Functions,JI(`>list_win',`id_pfcoref_3559')} {button Instance variables,JI(`>list_win',`id_pfcoref_3554')}

Constructor event

Destructor event

pfc_Timer event

N_cst_tmgmultiple includes precoded events:

Constructor
Destructor
pfc_Timer

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

Constructor event (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')}

Description

Creates an instance of ids_list.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

Destructor event (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')}

Description

Destroys the instance of ids_list.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

pfc_Timer event (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')}

Description

Notifies the registered object that the timer has fired. Depending on how you registered the objects, this event either triggers or posts the specified events.

Usage

The n_tmg Timer event calls this event.

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

n_cst_tmgmultiple

{button Events,JI(`>list_win',`id_pfcoref_3555')} {button Instance variables,JI(`>list_win',`id_pfcoref_3554')}

of_GCommonDenominator function

of_GetCount function

of_GetInterval function

of_GetRegistered function

of_IsAutoDisable function

of_IsDisabled function

of_IsRegistered function

of_RecalcInterval function

of_Register function

of_SetAutoDisable function

of_SetDisabled function

of_SetRequestor function

of_UnRegister function

N_cst_tmgmultiple includes precoded object functions:

of_GCommonDenominator
of_GetCount
of_GetInterval
of_GetRegistered
of_IsAutoDisable
of_IsDisabled
of_IsRegistered
of_RecalcInterval
of_Register
of_SetAutoDisable
of_SetDisabled
of_SetRequestor
of_UnRegister

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GCommonDenominator function (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')} {button Examples,JI(`>Examples',`id_pfcoref_3561')}

Description

Retrieves the greatest common denominator of two values.

Access

Public

Syntax

tmgcontrol.instancename.**of_GCommonDenominator** (*value1*, *value2*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
value1	Long containing the first value
value2	Long containing the second value

Return value

Long. Returns the greatest common denominator of the two values if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_GCommonDenominator function (n_cst_tmgmultiple)

This example is from the of_RecalcInterval function:

```
...

ll_gcd = of_GCommonDenominator &
   (inv_tmgregister[li_idx].il_notifyinterval,ll_gcd)
...
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_GetCount function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3563')}
```

Description

Retrieves the number of registered objects.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_GetCount** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)

Return value

Integer. Returns the number of registered objects if the function succeeds, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_GetCount function (n_cst_tmgmultiple)

This example calls the of_GetCount function:

```
Integer  li_return


IF IsValid(itmg_timer.inv_multiple) THEN
        li_return =  &
       itmg_timer.inv_multiple.of_GetCount()
END IF
sle_1.text = String(li_return)
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetInterval function (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')} {button Examples,JI(`>Examples',`id_pfcoref_3565')}

Description

Retrieves the current interval.

Access

Public

Syntax

tmgcontrol.instancename.**of_GetInterval** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)

Return value

Long. Returns the current interval if the function succeeds and 0 if no interval has been defined.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_GetInterval function (n_cst_tmgmultiple)

This example calls the of_GetInterval function:

```
Long ll_interval


IF IsValid(itmg_timer.inv_multiple) THEN
        ll_interval =  &
       itmg_timer.inv_multiple.of_GetInterval()
END IF
sle_1.text = "Interval is: " &
   + String(ll_interval)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetRegistered function (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')} {button Examples,JI(`>Examples',`id_pfcoref_3567')}

Description

Retrieves information for registered objects.

Access

Public

Syntax

tmgcontrol.instancename.**of_GetRegistered** (*objects*)

Argument	Description

tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
objects	N_cst_tmgregisterattrib array into which the function places information on registered objects (passed by reference)

Return value

Integer. Returns the number of entries in the *objects* array if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_GetRegistered function (n_cst_tmgmultiple)

This example calls the of_GetRegistered function:

```
n_cst_tmgregisterattrib lnv_objects[ ]

Integer li_return

IF IsValid(itmg_timer.inv_multiple) THEN
        li_return = &
      itmg_timer.inv_multiple.of_GetRegistered  &
         (lnv_objects)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_IsAutoDisable function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3569')}
```

Description

Reports whether the service is using the autodisable feature.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_IsAutoDisable** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)

Return value

Boolean. Returns TRUE if autodisable is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_IsAutoDisable function (n_cst_tmgmultiple)

This example is from the pfc_Timer event:

```
...

If of_IsAutoDisable() Then
        of_SetDisabled(False)
End If
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_IsDisabled function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3571')}
```

Description

Reports whether notification is disabled. If autodisable is enabled, n_cst_tmgmultiple disables itself automatically while notifying registered objects.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_IsDisabled** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)

Return value

Boolean. Returns TRUE if notification is disabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsDisabled function (n_cst_tmgmultiple)

This example is from the pfc_Timer event:

```
If of_IsDisabled() Then

        Return 0
End If
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_IsRegistered function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3573')}
```

Description

Reports whether the specified object or object/event combination is registered.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_IsRegistered** (*object* { , *event* })

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
object	PowerObject referencing the object to be tested
event (optional)	String specifying the event defined within *object*

Return value

Boolean. Returns TRUE if *object* or *object* and *event* are registered with the service and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_IsRegistered function (n_cst_tmgmultiple)

This example calls the of_IsRegistered function:

```
IF IsValid(itmg_timer.inv_multiple) THEN

        IF itmg_timer.inv_multiple.of_IsRegistered(parent)
 THEN
        sle_1.text = "Window is registered"
        ELSE
        sle_1.text = "Not registered"
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_RecalcInterval function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3575')}
```

Description

Calculates a new interval.

Access

Public

Syntax

tmgcontrol.instancename.**of_RecalcInterval** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)

Return value

Long. Returns the new interval if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_RecalcInterval function (n_cst_tmgmultiple)

This example is from the pfc_Timer event:

```
...

If lb_deleted Then
        of_ReCalcInterval()
End If
...
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_Register function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3577')}
```

Description

Registers an object instance (or object instance and event) with n_cst_tmgmultiple.

Access

Public

Syntax

tmgcontrol.instancename.**of_Register** (*object*, *event*, *interval* { , *style* })

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
object	PowerObject referencing the instance to be notified when the timer fires
event	String specifying the event to be called. This must be a valid event for *object*
interval	Long specifying the timer interval in seconds
style (optional)	Integer or n_cst_tmgmultiple constant specifying the notification style: • **0 or TRIGGEREVENT** Trigger the event (default) • **1 or POSTEVENT** Post the event

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify the object, event, and interval used by the timer.

If you specify an interval of zero, the service disables the timer.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_Register function (n_cst_tmgmultiple)

This example calls the of_Register function:

```
IF IsValid(itmg_timer.inv_multiple) THEN

        itmg_timer.inv_multiple.of_Register  &
       (parent, "ue_showtimer", 15)
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_SetAutoDisable function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3579')}
```

Description

Specifies whether n_cst_tmgmultiple disables notifications automatically during the notification process.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_SetAutoDisable** (*boolean*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
boolean	Boolean specifying whether the service disables notification automatically (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_SetAutoDisable function (n_cst_tmgmultiple)

This example calls the of_SetAutoDisable function:

```
itmg_timer.inv_multiple.of_SetAutoDisable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetDisabled function (n_cst_tmgmultiple)

{button Object,JI(`>main',`cbbdigcc')} {button Examples,JI(`>Examples',`id_pfcoref_3581')}

Description

Specifies whether n_cst_tmgmultiple sends notifications to registered objects.

Access

Public

Syntax

tmgcontrol.instancename.**of_SetDisabled** (*boolean*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
boolean	Boolean specifying whether to the service sends notifications to registered objects (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If autodisable is enabled, the pfc_Timer event calls this function to prevent simultaneous notifications.

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_SetDisabled function (n_cst_tmgmultiple)

This example is from the pfc_Timer event:

```
If of_IsAutoDisable() Then

        of_SetDisabled(True)
End If
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetRequestor function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3583')}
```

Description

Associates the requesting object with this instance of n_cst_tmgmultiple.

Access

Public

Syntax

tmgcontrol.instancename.**of_SetRequestor** (*requestor*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
requestor	N_tmg-based timing object instance to be associated with the service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetRequestor function (n_cst_tmgmultiple)

This example is from the n_tmg of_SetSingle function:

```
...

inv_multiple = Create n_cst_tmgmultiple
inv_multiple.of_SetRequestor(this)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_UnRegister function (n_cst_tmgmultiple)

```
{button Object,JI(`>main',`cbbdigcc')} {button
Examples,JI(`>Examples',`id_pfcoref_3585')}
```

Description

Unregisters the current notification object.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_UnRegister** ({ *object* { , *event* } })

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgmultiple (the n_tmg default is inv_multiple)
object (optional)	PowerObject specifying the object to unregister. If you don't specify this argument the function unregisters all objects
event (optional)	String specifying the event to unregister. If you don't specify this argument the function unregisters all events for *object*

Return value

Integer. Returns the number of unregistered entries if the function succeeds, 0 if the entry was not found, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_UnRegister function (n_cst_tmgmultiple)

This example calls the of_UnRegister function:

```
itmg_timer.inv_multiple.of_UnRegister()
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

n_cst_tmgsingle

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3587')} {button Functions,JI(`>list_win',`id_pfcoref_3591')} {button Events,JI(`>list_win',`id_pfcoref_3589')} {button Instance variables,JI(`>list_win',`id_pfcoref_3588')}

Description

Timing service (single timer). Use this service to maintain a single timer, triggered at regular intervals between .55 and 65 seconds.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_tmg

Usage

Use this service to implement a single timer. To use this service:

1 Establish an instance variable of type n_tmg:

```
n_tmg itmg_timer
```

2 Create the instance of n_tmg:

```
itmg_timer = CREATE n_tmg
```

3 Enable the single timer service:

```
itmg_timer.of_SetSingle(TRUE)
```

4 Register the object and the event to be notified (the window is the object in this example):

```
IF IsValid(itmg_timer.inv_single) THEN

            itmg_timer.inv_Single.of_Register  &
       (this, "ue_showtimer", 15)
END IF
```

5 Code the event to receive notification from n_cst_tmgsingle (ue_showtimer in this example):

6 (Optional) Unregister the object and event:

```
itmg_timer.inv_single.of_UnRegister()
```

This service is for use with n_tmg, the PFC timing object.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

n_cst_tmgsingle

n_cst_tmgmultiple

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

n_cst_tmgsingle

{button Functions,JI(`>list_win',`id_pfcoref_3591')} {button Events,JI(`>list_win',`id_pfcoref_3589')}

N_cst_tmgsingle includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_autodisable	Indicates whether the service enables autodisable	Boolean	Protected	Set with of_SetAutoDisable
ib_disabled	Indicates whether a notification can occur	Boolean	Protected	Set with of_SetDisabled
ii_notifystyle	Notification style: TriggerEvent or PostEvent	Integer	Protected	Set with of_Register
ipo_notifyobject	Object to notify when the timer fires	PowerObject	Protected	Set with of_Register
ir_interval	Timer interval	Real	Protected	Set with of_Register
is_notifyevent	Event to notify when the timer fires	String	Protected	Set with of_Register
itmg_requestor	N_tmg instance that owns the n_cst_tmgsingle instance	n_tmg	Protected	Internal
POSTEVENT	Constant set to 1	Integer	Public	Use with of_Register

TRIGGEREVENT	Constant set to 0	Integer	Public	Use with of_Register

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

n_cst_tmgsingle

{button Functions,JI(`>list_win',`id_pfcoref_3591')} {button Instance variables,JI(`>list_win',`id_pfcoref_3588')}

pfc_Timer event

N_cst_tmgsingle includes a precoded event:

pfc_Timer

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

pfc_Timer event (n_cst_tmgsingle)

{button Object,JI(`>main',`cbbdcfgh')}

Description

Notifies the registered object that the timer has fired. Depending on how you registered the object, this event either triggers or posts the specified event.

Usage

The n_tmg Timer event calls this event.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

n_cst_tmgsingle

{button Events,JI(`>list_win',`id_pfcoref_3589')} {button Instance variables,JI(`>list_win',`id_pfcoref_3588')}

of_GetCount function

of_GetInterval function

of_GetRegistered function

of_IsAutoDisable function

of_IsDisabled function

of_IsRegistered function

of_Register function

of_SetAutoDisable function

of_SetDisabled function

of_SetRequestor function

of_UnRegister function

N_cst_tmgsingle includes precoded object functions:

of_GetCount	of_Register
of_GetInterval	of_SetAutoDisable
of_GetRegistered	of_SetDisabled
of_IsAutoDisable	of_SetRequestor
of_IsDisabled	of_UnRegister

of_IsRegistered

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_GetCount function (n_cst_tmgsingle)

{button Object,JI(`>main',`cbbdcfgh')} {button Examples,JI(`>Examples',`id_pfcoref_3593')}

Description

Retrieves the number of registered objects (either zero or one).

Access

Public

Syntax

tmgcontrol.instancename.**of_GetCount** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)

Return value

Integer. Returns 1 if an object is registered, 0 if no object is registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetCount function (n_cst_tmgsingle)

This example calls the of_GetCount function:

```
Integer  li_return


IF IsValid(itmg_timer.inv_single) THEN
        li_return =  &
       itmg_timer.inv_single.of_GetCount()
END IF
sle_1.text = String(li_return)
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetInterval function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3595')}
```

Description

Retrieves the current interval.

Access

Public

Syntax

tmgcontrol.instancename.**of_GetInterval** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)

Return value

Real. Returns the current interval if the function succeeds and 0 if no interval has been defined.

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetInterval function (n_cst_tmgsingle)

This example calls the of_GetInterval function:

```
Real  lr_interval


IF IsValid(itmg_timer.inv_single) THEN
        lr_interval =  &
       itmg_timer.inv_single.of_GetInterval()
END IF
sle_1.text = "Interval is: " &
   + String(lr_interval)
```

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetRegistered function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3597')}
```

Description

Retrieves information for the currently registered object.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_GetRegistered** (*object*, *event*, *interval*, *style*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
object	PowerObject into which the function places a reference to the registered object (passed by reference)
event	String into which the function places a reference to the registered event (passed by reference)
interval	Real into which the function places a reference to the interval (passed by reference)
style	Style into which the function places a reference to the notification style (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, 0 if no object is registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_GetRegistered function (n_cst_tmgsingle)

This example calls the of_GetRegistered function:

```
PowerObject  lpo_object


String  ls_event
Real  lr_interval
Integer  li_style

IF IsValid(itmg_timer.inv_single) THEN
        itmg_timer.inv_Single.of_GetRegistered  &
       (lpo_object, ls_event, lr_interval, li_style)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_IsAutoDisable function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3599')}
```

Description

Reports whether the service is using the autodisable feature.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_IsAutoDisable** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)

Return value

Boolean. Returns TRUE if autodisable is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_IsAutoDisable function (n_cst_tmgsingle)

This example is from the pfc_Timer event:

```
...

If of_IsAutoDisable() Then
        of_SetDisabled(False)
End If
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

of_IsDisabled function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3601')}
```

Description

Reports whether notification is disabled. If autodisable is enabled, n_cst_tmgsingle disables itself automatically while notifying the registered object.

Access

Public

Syntax

tmgcontrol.instancename.**of_IsDisabled** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)

Return value

Boolean. Returns TRUE if notification is disabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_IsDisabled function (n_cst_tmgsingle)

This example is from the pfc_Timer event:

```
If of_IsDisabled() Then

        Return 0
End If
...
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_IsRegistered function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3603')}
```

Description

Reports whether the specified object or object/event combination is registered.

Access

Public

Syntax

tmgcontrol.instancename.**of_IsRegistered** (*object* { , *event* })

Argument	Description

tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
object	PowerObject referencing the object to be tested
event (optional)	Event defined within *object*

Return value

Boolean. Returns TRUE if *object* or *object* and *event* are registered with the service and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_IsRegistered function (n_cst_tmgsingle)

This example calls the of_IsRegistered function:

```
IF IsValid(itmg_timer.inv_single) THEN

        IF itmg_timer.inv_single.of_IsRegistered(parent)
 THEN
       sle_1.text = "Window is registered"
        ELSE
       sle_1.text = "Not registered"
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Register function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3605')}
```

Description

Registers an object instance (or object instance and event) with n_cst_tmgsingle.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_Register** (*object*, *event*, *interval* { , *style* })

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
object	PowerObject referencing the instance to be notified when the timer fires
event	String specifying the event to be called. This must be a valid event for *object*
interval	Real specifying the timer interval in seconds (.55 is the minimum and 65 is the maximum)
style (optional)	Integer or n_cst_tmgsingle constant specifying the notification style: • **0 or TRIGGEREVENT** Trigger the event (default) • **1 or POSTEVENT** Post the event

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to specify the object, event, and interval used by the timer.

If you specify an interval less than .55 seconds, the function sets the interval to .55; if you specify an interval greater than 65 seconds, the function sets the interval to 65.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_Register function (n_cst_tmgsingle)

This example calls the of_Register function:

```
IF IsValid(itmg_timer.inv_single) THEN

        itmg_timer.inv_Single.of_Register  &
       (parent, "ue_showtimer", 15)
END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_SetAutoDisable function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3607')}
```

Description

Specifies whether n_cst_tmgsingle disables notifications automatically during the notification process.

Access

Public

Syntax

tmgcontrol.instancename.**of_SetAutoDisable** (*boolean*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
boolean	Boolean specifying whether the service disables notification automatically (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Intuitive Interface

of_SetAutoDisable function (n_cst_tmgsingle)

This example calls the of_SetAutoDisable function:

```
itmg_timer.inv_single.of_SetAutoDisable(TRUE)
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_SetDisabled function (n_cst_tmgsingle)

{button Object,JI(`>main',`cbbdcfgh')} {button Examples,JI(`>Examples',`id_pfcoref_3609')}

Description

Specifies whether n_cst_tmgsingle sends notifications to registered objects.

Access

Public

Syntax

tmgcontrol.instancename.**of_SetDisabled** (*boolean*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
boolean	Boolean specifying whether to the service sends notifications to registered objects (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If autodisable is enabled, the pfc_Timer event calls this function to prevent simultaneous notifications.

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_SetDisabled function (n_cst_tmgsingle)

This example is from the pfc_Timer event:

```
If of_IsAutoDisable() Then

        of_SetDisabled(True)
End If
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_SetRequestor function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3611')}
```

Description

Associates the requesting object with this instance of n_cst_tmgsingle.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_SetRequestor** (*requestor*)

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)
requestor	N_tmg-based timing object instance to be associated with the service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_SetRequestor function (n_cst_tmgsingle)

This example is from the n_tmg of_SetSingle function:

```
...

inv_single = Create n_cst_tmgsingle
inv_single.of_SetRequestor(this)
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

of_UnRegister function (n_cst_tmgsingle)

```
{button Object,JI(`>main',`cbbdcfgh')} {button
Examples,JI(`>Examples',`id_pfcoref_3613')}
```

Description

Unregisters the current notification object.

Access

Public

Syntax

tmgcontrol.*instancename*.**of_UnRegister** ( )

Argument	Description
tmgcontrol	Instance name of the n_tmg-based timing control
instancename	Instance name of n_cst_tmgsingle (the n_tmg default is inv_single)

Return value

Integer. Returns 1 if the function succeeds, 0 if no object is registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_UnRegister function (n_cst_tmgsingle)

This example calls the of_UnRegister function:

```
itmg_timer.inv_single.of_UnRegister()
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

n_cst_tree

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3615')} {button Functions,JI(`>list_win',`id_pfcoref_3617')} {button Instance variables,JI(`>list_win',`id_pfcoref_3616')}

Description

Balanced binary tree object. A balanced binary tree provides an alternative to a sorted linked list. N_cst_tree automatically maintains a sorted (no duplicates) balanced binary tree, which is never more than one level out of balance.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_treenode

n_cst_treenodecompare

Usage

Use this object to handle list processing in a balanced binary tree.

To use n_cst_tree:

1 Create an instance of n_cst_tree. This example declares a window instance variable:

```
n_cst_tree  inv_tree
```

2 (Optional) Specify a customized node comparison object. This example assumes an inv_customcompare instance variable of type n_cst_customcompare (n_cst_customcompare must be a descendant of n_cst_treenodecompare):

```
inv_customcompare = CREATE n_cst_mycompare
```

```
inv_tree.of_SetCompare(inv_customcompare)
```

3 Add nodes to the tree. To do this, first create a node, specify a key and data, then call the of_Add function:

```
n_cst_treenode  lnv_node

Integer  li_return

lnv_node = CREATE n_cst_treenode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_tree.of_Add(lnv_node)
```

4 Access items in the tree as appropriate by calling the of_Find function. This example displays the data in a MessageBox:

```
n_cst_treenode  lnv_node, lnv_temp

Integer  li_return
Any  la_data

lnv_temp = CREATE n_cst_treenode

lnv_temp.of_SetKey(sle_2.text)
li_return = inv_tree.of_Find(lnv_node, lnv_temp)
IF li_return < 1 THEN
   MessageBox("Not Found",  &
      "The specified node was not found")
ELSE
   lnv_node.of_GetData(la_data)
   MessageBox("Found", String(la_data)  &
      + " was found.")
END IF
```

5 (Optional) Remove nodes from the tree by calling the of_Destroy function:

```
n_cst_treenode  lnv_node, lnv_temp

Integer  li_return
Long  ll_oldtextcolor

lnv_temp = CREATE n_cst_treenode

lnv_temp.of_SetKey(sle_2.text)
li_return = inv_tree.of_Find(lnv_node, lnv_temp)
IF li_return < 1 THEN
   ll_oldtextcolor = sle_2.textcolor
   sle_2.textcolor = RGB(255, 0, 0)
   MessageBox("Not Found",  &
      "The specified node was not found")
   sle_2.textcolor = ll_oldtextcolor
   Return
END IF
li_return = inv_tree.of_Destroy(lnv_node)
IF li_return = 1 THEN
   MessageBox("Success",  &
      "Node removed successfully")
```

```
END IF
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

n_cst_tree

n_cst_list

n_cst_queue

n_cst_stack

n_cst_treenode

n_cst_treenodecompare

Created with the Personal Edition of HelpNDoc: Easily create EBooks

n_cst_tree

{button Functions,JI(`>list_win',`id_pfcoref_3617')}

N_cst_tree includes instance variables:

Instance variable	Description	Data type	Access	Usage
inv_compare	Reference to comparison object	n_cst_treenodecompare	Protected	Set with of_SetCompare (default is n_cst_treenodecompare)
inv_removednode	Temporary node	n_cst_treenode	Protected	Internal
inv_root	Root node of tree	n_cst_treenode	Protected	Internal
inv_shiftnode	Temporary node	n_cst_treenode	Protected	Internal

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

n_cst_tree

{button Instance variables,JI(`>list_win',`id_pfcoref_3616')}

of_Add function

of_AddNode function

of_Balance function

of_BalanceLeft function

of_BalanceRight function

of_Count function

of_Create function

of_DelNode function

of_Destroy function

of_Find function

of_Get function

of_GetRoot function

of_Remove function

of_Search function

of_SetCompare function

of_Traverse function

N_cst_tree includes precoded object functions:

of_Add	of_Destroy
of_AddNode	of_Find
of_Balance	of_Get
of_BalanceLeft	of_GetRoot
of_BalanceRight	of_Remove
of_Count	of_Search
of_Create	of_SetCompare
of_DelNode	of_Traverse

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_Add function (n_cst_tree)

{button Object,JI(`>main',`biicjbjj')} {button Examples,JI(`>Examples',`id_pfcoref_3619')}

Description

Adds a new node to the tree.

Access

Public

Syntax

instancename.**of_Add** (*node*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance to be added to the tree

Return value

Integer. Returns values as follows:

- **1** Success
- **0** A node with this key already exists in the tree; *node* was not added
- **-1** An error occurred
- **-2** *Node* is invalid

Usage

Before calling this function, you need to create the node, add key information, and add data.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_Add function (n_cst_tree)

This example calls the of_Add function:

```
n_cst_treenode  lnv_node
```

```
Integer  li_return

lnv_node = CREATE n_cst_treenode

lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_tree.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_AddNode function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3621')}
```

Description

Finds the proper location for a new node and inserts it into the tree.

Access

Protected

Syntax

instancename.**of_AddNode** (*newnode*, *currentnode*, *height*)

Argument	Description
instancename	Instance name of n_cst_tree
newnode	N_cst_treenode instance containing the node to be added
currentnode	N_cst_treenode instance containing the current node (passed by reference)
height	Boolean indicating whether the function changed the height of the tree (TRUE) or not (FALSE) (passed by reference)

Return value

Integer. Returns values as follows:

- **1** Node was added successfully
- **0** A node with a matching key already exists in the tree
- **-1** An error occurred

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_AddNode function (n_cst_tree)

This example calls the of_AddNode function:

```
...

Return of_AddNode  &
  (anv_currentnode, inv_root, lb_height)
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_Balance function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3623')}
```

Description

Recursively balances the tree after a node deletion.

Access

Protected

Syntax

instancename.**of_Balance** (*node*, *height*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance referencing the top branch of the node to be balanced (passed by reference)
height	Boolean indicating whether the function changed the height of the tree (TRUE) or not (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_Balance function (n_cst_tree)

This example is from the of_DelNode function:

```
...

ELSE
  of_Balance(lnv_left, ab_height)
  inv_shiftnode.of_SetPrev(lnv_left)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_BalanceLeft function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3625')}
```

Description

Balances the left side of a node.

Access

Protected

Syntax

instancename.**of_BalanceLeft** (*node*, *height*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance referencing the node whose left side is to be balanced (passed by reference)
height	Boolean indicating whether the function changed the height of the tree (TRUE) or not (FALSE) (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_BalanceLeft function (n_cst_tree)

This example is from the of_DelNode function:

```
...

IF ab_height THEN of_BalanceLeft &
   (anv_currentnode, ab_height)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_BalanceRight function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3627')}
```

Description

Balances the right side of a node.

Access

Protected

Syntax

instancename.**of_BalanceRight** (*node*, *height*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance referencing the node whose right side is to be balanced (passed by reference)
height	Boolean indicating whether the function changed the height of the tree (TRUE) or not (FALSE) (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_BalanceRight function (n_cst_tree)

This example is from the of_DelNode function:

```
...

IF ab_height THEN of_BalanceRight &
   (anv_currentnode, ab_height)
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_Count function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3629')}
```

Description

Retrieves a count of the number of nodes in the tree.

Access

Public

Syntax

instancename.**of_Count** ( )

Argument	Description
instancename	Instance name of n_cst_tree

Return value

Long. Returns the number of nodes in the tree.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_Count function (n_cst_tree)

This example calls the of_Count function:

```
...

ll_count = inv_tree.of_Count()
st_result.text = "Item count: " + String(ll_count)
```

Created with the Personal Edition of HelpNDoc: Bring your WinHelp HLP help files into the present with HelpNDoc's easy CHM conversion

of_Create function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3631')}
```

Description

Creates a node, returning a reference to the new node.

Access

Public

Syntax

instancename.**of_Create** (*newnode*)

Argument	Description
instancename	Instance name of n_cst_tree
newnode	N_cst_treenode instance into which the function places a reference to the newly created node (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_Create function (n_cst_tree)

This example calls the of_Create function:

```
n_cst_treenode  lnv_node

Integer  li_return

inv_tree.of_Create(lnv_node)
lnv_node.of_SetKey(sle_1.text)
lnv_node.of_SetData(sle_1.text)
li_return = inv_tree.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_DelNode function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3633')}
```

Description

Deletes the node whose key matches the key found in the passed argument, and if necessary rebalances the tree.

Access

Protected

Syntax

instancename.**of_DelNode** (*keynode*, *currentnode*, *height*)

Argument	Description
instancename	Instance name of n_cst_tree
keynode	N_cst_treenode instance specifying the key to be deleted
currentnode	N_cst_treenode instance to be deleted from the tree (passed by reference)
height	Boolean (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_DelNode function (n_cst_tree)

This example is from the of_Remove function:

```
...

li_rc = of_DelNode(lnv_keynode, inv_root, lb_height)
anv_currentnode = inv_removednode
DESTROY lnv_keynode
Return li_rc
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_Destroy function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3635')}
```

Description

Destroys the passed node, resetting references to surrounding nodes.

Access

Public

Syntax

instancename.**of_Destroy** ({ *node* })

Argument	Description
instancename	Instance name of n_cst_tree
node (optional)	N_cst_treenode instance referencing the node to be destroyed. If you omit this argument, the function destroys all nodes in the tree

Return value

Integer. Returns 1 if the function succeeds, -1 if *node* is not found, and -2 if *node* is invalid.

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_Destroy function (n_cst_tree)

This example calls the of_Destroy function:

```
n_cst_treenode  lnv_node, lnv_temp

Integer  li_return

lnv_temp = CREATE n_cst_treenode

lnv_temp.of_SetKey(sle_2.text)
li_return = inv_tree.of_Find(lnv_node, lnv_temp)
IF li_return < 1 THEN
        MessageBox("Not Found",  &
       "The specified node was not found")
        Return
END IF
li_return = inv_tree.of_Destroy(lnv_node)
IF li_return = 1 THEN
        MessageBox("Success",  &
       "Node removed successfully")
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_Find function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3637')}
```

Description

Retrieves a reference to a node in the tree based on a specified key value.

Access

Public

Syntax

instancename.**of_Find** (*foundnode*, *nodewithkey*)

Argument	Description
instancename	Instance name of n_cst_tree
foundnode	N_cst_treenode instance into which the function places the node if a match is found (passed by reference)
nodewithkey	N_cst_treenode instance containing the key value used to find the requested node

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Use *foundnode* to access the key and data for the node.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_Find function (n_cst_tree)

This example calls the of_Find function:

```
n_cst_treenode  lnv_node, lnv_temp

Integer  li_return
Any  la_data

lnv_temp = CREATE n_cst_treenode

lnv_temp.of_SetKey(sle_2.text)
li_return = inv_tree.of_Find(lnv_node, lnv_temp)
IF li_return < 1 THEN
  MessageBox("Not Found",  &
     "The specified node was not found")
ELSE
  lnv_node.of_GetData(la_data)
  MessageBox("Found", String(la_data) + " was found")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_Get function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3639')}
```

Description

Populates an array containing all nodes in the tree.

Access

Public

Syntax

instancename.**of_Get** (*allnodes*)

Argument	Description
instancename	Instance name of n_cst_tree
allnodes	N_cst_treenode array into which the function places references to all nodes in the tree (passed by reference)

Return value

Long. Returns the number of elements in *allnodes* if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_Get function (n_cst_tree)

This example calls the of_Get function:

```
n_cst_treenode  lnv_nodes[ ]

Long  ll_return, ll_count
Any  la_data
```

```
String  ls_data

lb_1.Reset()
ll_return = inv_tree.of_Get(lnv_nodes)
FOR ll_count = 1 to ll_return
   lnv_nodes[ll_count].of_GetData(la_data)
   ls_data = String(la_data)
   lb_1.AddItem(ls_data)
NEXT
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetRoot function (n_cst_tree)

{button Object,JI(`>main',`biicjbjj')} {button Examples,JI(`>Examples',`id_pfcoref_3641')}

Description

Retrieves a reference to the root node of a tree.

Access

Public

Syntax

instancename.**of_GetRoot** (*node*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance into which the function places a reference to the root node of *instancename* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetRoot function (n_cst_tree)

This example calls the of_GetRoot function:

```
n_cst_treenode  lnv_node

Integer  li_return
Any  la_data

li_return = inv_tree.of_GetRoot(lnv_node)
IF li_return < 1 THEN
   MessageBox("Not Found",  &
      "Root node not found")
ELSE
   lnv_node.of_GetData(la_data)
   MessageBox("Root Node", "Root node is "  &
      + String(la_data))
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_Remove function (n_cst_tree)

{button Object,JI(`>main',`biicjbjj')} {button Examples,JI(`>Examples',`id_pfcoref_3643')}

Description

Removes the specified node from the tree.

Access

Public

Syntax

instancename.**of_Remove** (*node*)

Argument	Description
instancename	Instance name of n_cst_tree
node	N_cst_treenode instance referencing the node that contains the key and data to be removed (passed by reference)

Return value

Integer. Returns 1 if the function succeeds, -1 if an error occurs, and -2 if *node* is invalid.

Usage

In most cases it is better to call of_Destroy to remove and destroy the node.

Use with care Due to the tree rotations that may occur while rebalancing the tree following the deletion, the data in the original node may have been moved. This function returns the node that was actually removed, but it may not be the node that was requested to be removed. If you require the removed node's contents after calling this function, make a copy of the node before calling the function.

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_Remove function (n_cst_tree)

This example is from the of_Destroy function:

```
...

li_rc = of_remove(anv_currentnode)
if li_rc = 1 then
   destroy anv_currentnode
end if
return li_rc
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_Search function (n_cst_tree)

{button Object,JI(`>main',`biicjbjj')} {button Examples,JI(`>Examples',`id_pfcoref_3645')}

Description

Searches the tree recursively until the specified node is found or the branch ends.

Access

Protected

Syntax

instancename.**of_Search** (*foundnode*, *nodewithkey*)

Argument	Description
instancename	Instance name of n_cst_tree
foundnode	N_cst_treenode instance into which the function places the node if a match is found (passed by reference)
nodewithkey	N_cst_treenode instance containing the key value used to find the requested node

Return value

Integer. Returns 1 if the node was found and -1 if it is not found.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_Search function (n_cst_tree)

This example is from the of_Find function:

```
...

anv_currentnode = inv_root
return of_search(anv_currentnode,anv_keynode)
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_SetCompare function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3647')}
```

Description

Establishes a comparison object other than n_cst_treenodecompare.

Access

Public

Syntax

instancename.**of_SetCompare** (*comparisonobject*)

Argument	Description
instancename	Instance name of n_cst_tree
comparisonobject	N_cst_treenodecompare or n_cst_treenodecompare descendant that overrides the of_Compare function

Return value

Integer. Returns 1 if the function succeeds, -1 if an error occurs, and -2 if the comparison object has already been set.

Usage

N_cst_tree uses the comparison object's of_Compare function to find and sort nodes. The default comparison object (n_cst_treenodecompare) can handle comparison for simple data types. But if your list's key items contain some other data type, you must create a customized n_cst_treenodecompare descendant and implement an of_Compare function to handle sort order.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetCompare function (n_cst_tree)

This example calls the of_SetCompare function. It assumes an inv_customcompare instance variable:

```
inv_customcompare = CREATE n_cst_mycompare

inv_tree.of_SetCompare &
  (inv_customcompare)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Reach: Convert Your Word Document to an ePub or Kindle eBook

of_Traverse function (n_cst_tree)

```
{button Object,JI(`>main',`biicjbjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3649')}
```

Description

Walks the tree, creating a sorted array of nodes.

Access

Protected

Syntax

instancename.**of_Traverse** (*currentnode*, *foundnodes*, *count*)

Argument	Description
instancename	Instance name of n_cst_tree
currentnode	N_cst_treenode instance from which the function begins traversing the tree
foundnodes	N_cst_treenode array into which the function places found nodes in sorted order (passed by reference)
count	Long into which the function places a count of the elements in *foundnodes* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_Traverse function (n_cst_tree)

This example is from the of_Get function:

```
Long ll_cnt = 0


SetPointer(HourGlass!)
IF IsValid(inv_root) THEN
  of_Traverse(inv_root, anv_list, ll_cnt)
END IF
Return ll_cnt
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

n_cst_treenode

```
{button Ancestor,JI(`>main',`biibdiie')} {button See also,PI(`',`id_pfcoref_3651')}
{button Functions,JI(`>list_win',`id_pfcoref_3653')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3652')}
```

Description

Tree list instance object. Each element in a balanced binary tree is an instance of n_cst_treenode. N_cst_treenode contains balance information as well as functions to copy nodes and balance the tree.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

Use n_cst_treenode to create nodes for use with n_cst_tree.

To use n_cst_treenode:

1 Declare a variable for your list (an instance variable in this example):

```
n_cst_tree inv_tree
```

2 Declare variables for tree nodes (local variables in this example):

```
n_cst_treenode lnv_node
```

3 Create the node instance:

```
lnv_node = CREATE n_cst_treenode
```

You can also call the n_cst_tree of_Create function to create a tree node instance.

4 Access the node's key and data values as appropriate:

```
lnv_node.of_SetKey(sle_1.text)

lnv_node.of_SetData(sle_1.text)
```

5 Call tree processing functions as appropriate:

```
li_return = inv_tree.of_Add(lnv_node)
```

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

n_cst_treenode

n_cst_linkedlistnode

n_cst_tree

n_cst_treenodecompare

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

n_cst_treenode

{button Functions,JI(`>list_win',`id_pfcoref_3653')}

N_cst_treenode includes instance variables:

Instance variable	Description	Data type	Access	Usage
ii_balance	Current tree balance	Integer	Protected	Set with of_SetBalance

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

n_cst_treenode

{button Instance variables,JI(`>list_win',`id_pfcoref_3652')}

of_CopyTo function

of_GetBalance function

of_SetBalance function

N_cst_treenode includes precoded object functions:

of_CopyTo

of_GetBalance

of_SetBalance

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_CopyTo function (n_cst_treenode)

{button Object,JI(`>main',`biicbbgb')} {button Examples,JI(`>Examples',`id_pfcoref_3655')}

Description

Copies the data and key of the passed node into the current node.

Access

Public

Syntax

instancename.**of_CopyTo** (*targetnode*)

Argument	Description
instancename	Instance name of n_cst_treenode
targetnode	N_cst_treenode instance whose data and key are copied to *instancename* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If you extend n_cst_treenode, be sure to override this function to copy all added data elements as well as the ia_key and ia_data instance variables.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_CopyTo function (n_cst_treenode)

This example calls the of_CopyTo function:

```
n_cst_treenode  lnv_node, lnv_temp, lnv_copy


Long  ll_return
Any  la_data

lnv_temp = CREATE n_cst_treenode

lnv_temp.of_SetKey(sle_2.text)
ll_return = inv_tree.of_Find(lnv_node, lnv_temp)
IF ll_return < 1 THEN
   MessageBox("Not Found",  &
      "The specified node was not found")
   Return
END IF
lnv_copy = CREATE n_cst_treenode
ll_return = lnv_node.of_CopyTo(lnv_copy)
IF ll_return = 1 THEN
   lnv_copy.of_GetData(la_data)
   MessageBox("Success",   &
      "Node copied successfully~r~n"  &
         + "Data is: " + String(la_data))
END IF
```

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_GetBalance function (n_cst_treenode)

```
{button Object,JI(`>main',`biicbbgb')} {button
Examples,JI(`>Examples',`id_pfcoref_3657')}
```

Description

Retrieves the current balance of a tree list.

Access

Public

Syntax

instancename.**of_GetBalance** ( )

Argument	Description
instancename	Instance name of n_cst_treenode

Return value

Integer. Returns values as follows:

- **1** Right branch is one level higher than the left
- **0** Tree is balanced
- **-1** Left branch is one level higher than the right

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetBalance function (n_cst_treenode)

This example calls the of_GetBalance function:

```
...

choose case anv_currentnode.of_GetBalance()
   case 1
      anv_currentnode.of_SetBalance(0)
      ab_height = false
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_SetBalance function (n_cst_treenode)

```
{button Object,JI(`>main',`biicbbgb')} {button
Examples,JI(`>Examples',`id_pfcoref_3659')}
```

Description

Sets the current balance in a tree list.

Access

Public

Syntax

instancename.**of_SetBalance** (*balancelevel*)

Argument	Description
instancename	Instance name of n_cst_treenode
balancelevel	Integer specifying the balance level. Valid values are: • **1** Right branch is one level higher than the left • **0** Tree is balanced • **-1** Left branch is one level higher than the right

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetBalance function (n_cst_treenode)

This example calls the of_SetBalance function:

```
...

anv_newnode.of_SetBalance(0)
anv_currentnode = anv_newnode
...
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

n_cst_treenodecompare

```
{button Ancestor,JI(`>main',`biibfaej')} {button See also,PI(`',`id_pfcoref_3661')}
```

Description

Tree node comparison object. N_cst_tree uses this object to compare values before placement in a tree list.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

Use this object for customized comparisons with tree lists.To use a customized descendant of n_cst_treenodecompare:

1. Use the User Object painter to create a customized n_cst_treenodecompare descendant.
2. In the customized n_cst_treenodecompare descendant, implement a Public of_Compare function to compare key values in the two passed nodes. This function should take two arguments of type n_cst_treenode (passed by value) and return Integer values as follows:
   - **LESSTHAN or 1** The key of the first node is less than the key of the second node
   - **EQUAL or 0** The key of the first node is equal to the key of the second node
   - **GREATERTHAN or 2** The key of the first node is greater than the key of the second node

     For an example of the processing you might use when overriding of_Compare, see n_cst_linkedlistnodecompare.
   - **FAILURE or -1** An error occurred
3. In the object that uses PFC tree processing, define an instance variable that uses your customized n_cst_treenodecompare object as the data type:

```
n_cst_mycompare inv_customcompare
```

4. Create an instance of the customized comparison object and call the n_cst_tree of_SetCompare function:

```
inv_customcompare = CREATE n_cst_mycompare


inv_tree.of_SetCompare(inv_customcompare)
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

n_cst_treenodecompare

n_cst_linkedlistnodecompare

n_cst_tree

n_cst_treenode

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

n_cst_trregistration

{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3663')} {button Functions,JI(`>list_win',`id_pfcoref_3667')} {button Events,JI(`>list_win',`id_pfcoref_3665')} {button Instance variables,JI(`>list_win',`id_pfcoref_3664')}

Description

Transaction registration service.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_tr

Usage

Use this service to keep track of transactions when your application uses more than one transaction.

To use this service:

1 Register transactions by calling the of_Register function:

```
gnv_app.inv_trregistration.of_Register &

                    (itr_security)
```

2 Provide and track transaction names through the n_tr of_SetName function:

```
itr_security.of_SetName("Security")
```

3 Call n_cst_trregistration functions as needed to access information on registered transactions.

4 (Optional) Unregister transactions by calling the of_UnRegister function:

```
gnv_app.inv_trregistration.of_UnRegister &

                    (itr_security)
```

When your application closes, this object automatically destroys all open transactions. Use the n_tr of_SetAutoRollback function to specify whether transactions are rolled back or committed before being destroyed.

This service is for use with Transaction objects that inherit from n_tr.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_trregistrationattrib custom class user object replaces the os_transentry object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

n_cst_trregistration

n_cst_appmanager

n_tr

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

n_cst_trregistration

{button Functions,JI(`>list_win',`id_pfcoref_3667')} {button Events,JI(`>list_win',`id_pfcoref_3665')}

N_cst_trregistration includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_allowsqlcadestroy	Indicates whether the service destroys SQLCA	Boolean	Protected	Set with of_SetAllowSqlcaDestroy (default is TRUE)
ib_destructordestroy	Indicates whether the service destroys registered transactions in the Destructor event	Boolean	Protected	Set with of_SetDestructorDestroy (default is TRUE)
inv_trans[ ]	Structure array that tracks Transaction objects and whether the array slot is used	n_cst_trregistrationattrib	Protected	Used to track Transaction objects
ii_count	Number of current transactions registered with the service	Integer	Protected	Used to track the number of registered Transaction objects. This value is not always the same as the upperbound of the istr_trans array

Created with the Personal Edition of HelpNDoc: Easily create EPub books

n_cst_trregistration

{button Functions,JI(`>list_win',`id_pfcoref_3667')} {button Instance variables,JI(`>list_win',`id_pfcoref_3664')}

Destructor event

N_cst_trregistration includes a precoded event:

Destructor

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

Destructor event (n_cst_trregistration)

{button Object,JI(`>main',`cdebfjgg')}

Description

Optionally destroys all registered Transaction objects.

Usage

Call the of_SetDestructorDestroy function to control whether n_cst_trregistration destroys registered Transaction objects in the Destructor event.

This event ensures that transactions are destroyed when an application terminates. However, it's best if the application does this explicitly.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

n_cst_trregistration

{button Events,JI(`>list_win',`id_pfcoref_3665')} {button Instance variables,JI(`>list_win',`id_pfcoref_3664')}

of_Destroy function

of_GetByName function

of_GetCount function

of_GetRegistered function

of_IsAllowSqlcaDestroy function

of_IsDestructorDestroy function

of_IsRegistered function

of_Register function

of_SetAllowSqlcaDestroy function

of_SetDestructorDestroy function

of_UnRegister function

N_cst_trregistration includes precoded object functions:

of_Destroy
of_GetByName
of_GetCount
of_GetRegistered
of_IsAllowSqlcaDestroy
of_IsDestructorDestroy
of_IsRegistered
of_Register
of_SetAllowSqlcaDestroy
of_SetDestructorDestroy
of_UnRegister

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Destroy function (n_cst_trregistration)

{button Object,JI(`>main',`cdebfjgg')} {button Examples,JI(`>Examples',`id_pfcoref_3669')}

Description

Unregisters and destroys all registered Transaction objects.

Access

Public

Syntax

appname.*instancename*.**of_Destroy** ( )

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)

Return value

Integer. Returns the number of destroyed Transaction objects if the function succeeds and -1 if an error occurs.

Usage

To prevent this function from destroying SQLCA, call of_SetAllowSqlcaDestroy, passing FALSE.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_Destroy function (n_cst_trregistration)

This example is from the Destructor event:

```
If of_IsDestructorDestroy() Then

        of_Destroy()
End If
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetByName function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3671')}
```

Description

Retrieves a reference to a registered Transaction object, given its name.

Access

Public

Syntax

appname.*instancename*.**of_GetByName** (*transname*, *transobject*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
transname	String specifying the name of the Transaction object to retrieve
transobject	N_tr variable to contain the reference to the Transaction object (passed by reference)

Return value

Integer. Returns 1 if the specified name is a valid registered Transaction object and 0 if it is not.

Usage

One use of this function is to pass the name between windows so they can use the same Transaction object.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_GetByName function (n_cst_trregistration)

This example calls the of_GetByName function in a response window's Open event to use a transaction created by another window. The calling window passes the name via the OpenWithParm function:

```
Integer  li_return


String   ls_name
n_tr  lt_trans

ls_name = Message.StringParm
IF ls_name = "" THEN
        MessageBox("Error","No transaction passed")
        CloseWithReturn(this, -1)
END IF
li_return = &
        gnv_app.inv_trregistration.of_GetByName &
       (ls_name, lt_trans)
IF li_return = 0 THEN
        MessageBox("Error","Transaction not found")
        CloseWithReturn(this, -1)
ELSE
        dw_list.SetTransObject(lt_trans)
END IF
```

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

of_GetCount function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3673')}
```

Description

Retrieves the number of registered Transaction objects.

Access

Public

Syntax

appname.*instancename*.**of_GetCount** ( )

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)

Return value

Integer. Returns the number of registered Transaction objects.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_GetCount function (n_cst_trregistration)

This example calls the of_GetCount function:

```
Integer    li_count


li_count = gnv_app.inv_trregistration.of_GetCount( )
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_GetRegistered function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3675')}
```

Description

Retrieves all registered Transaction objects.

Access

Public

Syntax

appname.*instancename*.**of_GetRegistered** (*transobj*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
transobj	N_tr array into which the function places references to all registered Transaction objects (passed by reference)

Return value

Integer. Returns the number of elements in the *transobj* array.

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_GetRegistered function (n_cst_trregistration)

This example calls the of_GetRegistered function:

```
Integer  li_return

n_tr  ltr_trans[ ]

li_return = &
        gnv_app.inv_trregistration.of_GetRegistered &
       (ltr_trans)
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_IsAllowSqlcaDestroy function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3677')}
```

Description

Reports whether the of_Destroy function destroys SQLCA.

Access

Public

Syntax

appname.*instancename*.**of_IsAllowSqlcaDestroy** ( )

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)

Return value

Boolean. Returns TRUE if automatic SQLCA destroy is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_IsAllowSqlcaDestroy function (n_cst_trregistration)

This example calls the of_IsAllowSqlcaDestroy function:

```
IF gnv_app.inv_trregistration.of_IsAllowSqlcaDestroy &

        () THEN
       MessageBox("TR Registration",  &
         "Automatic SQLCA destroy enabled")
ELSE
        MessageBox("TR Registration",  &
      "Automatic SQLCA destroy disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_IsDestructorDestroy function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3679')}
```

Description

Reports whether the Destructor event destroys registered transactions.

Access

Public

Syntax

appname.*instancename*.**of_IsDestructorDestroy** ( )

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)

Return value

Boolean. Returns TRUE if Destructor destroy is enabled and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_IsDestructorDestroy function (n_cst_trregistration)

This example calls the of_IsDestructorDestroy function:

```
IF gnv_app.inv_trregistration.of_IsDestructorDestroy &

        () THEN
       MessageBox("Destructor", "Destroy enabled")
ELSE
        MessageBox("Destructor", "Destroy disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_IsRegistered function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3681')}
```

Description

Reports whether a Transaction object is registered with n_cst_trregistration.

Access

Public

Syntax

appname.*instancename*.**of_IsRegistered** (*nameortrans*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)

instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
nameortrans	Either of the following: • String containing the transaction name, as specified in the n_tr of_SetName function • N_tr variable specifying the Transaction object

Return value

Boolean. Returns TRUE if *nameortrans* is registered and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_IsRegistered function (n_cst_trregistration)

This example calls the of_IsRegistered function:

```
IF gnv_app.inv_trregistration.of_IsRegistered &

        (SQLCA) THEN
       MessageBox("Registration", "Registration on")
ELSE
        MessageBox("Registration", "Registration off")
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_Register function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3683')}
```

Description

Registers a Transaction object.

Access

Public

Syntax

appname.*instancename*.**of_Register** (*transobject*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
transobject	N_tr variable specifying the Transaction object to register. This Transaction object must already be created

Return value

Integer. Returns 1 if the function succeeds, 0 if the transaction is already registered, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help

Authoring Tool

of_Register function (n_cst_trregistration)

This example calls the of_Register function to register SQLCA.

```
IF SQLCA.of_Connect() <> 0 THEN

        MessageBox("Error","Connect error -- SQLCA")
        HALT
ELSE
        gnv_app.inv_trregistration.of_Register(SQLCA)
END IF
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_SetAllowSqlcaDestroy function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3685')}
```

Description

Specifies whether the of_Destroy function destroys SQLCA.

Access

Public

Syntax

appname.*instancename*.**of_SetAllowSqlcaDestroy** (*boolean*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
boolean	Boolean indicating whether the of_Destroy function destroys SQLCA (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The n_cst_trregistration default for this specification is TRUE, which enables automatic SQLCA destruction.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetAllowSqlcaDestroy function (n_cst_trregistration)

This example calls the of_SetAllowSqlcaDestroy function:

```
gnv_app.inv_trregistration.of_SetAllowSqlcaDestroy  &

    (FALSE)
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_SetDestructorDestroy function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3687')}
```

Description

Specifies whether the Destructor event destroys registered transactions.

Access

Public

Syntax

appname.*instancename*.**of_SetDestructorDestroy** (*boolean*)

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
boolean	Boolean indicating whether the Destructor event destroys registered transactions (TRUE) or not (FALSE)

Return value

Boolean. Returns TRUE if Destructor destroy is enabled and FALSE if it is not.

Usage

The n_cst_trregistration default for this specification is TRUE, which enables automatic transaction destruction.

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_SetDestructorDestroy function (n_cst_trregistration)

This example calls the of_SetDestructorDestroy function:

```
gnv_app.inv_trregistration.of_SetDestructorDestroy &

        (FALSE)
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help files to CHM with HelpNDoc

of_UnRegister function (n_cst_trregistration)

```
{button Object,JI(`>main',`cdebfjgg')} {button
Examples,JI(`>Examples',`id_pfcoref_3689')}
```

Description

Removes the specified Transaction object or all Transaction objects from the list of registered Transaction objects.

Access

Public

Syntax

appname.*instancename*.**of_UnRegister** ({ *transobject* })

Argument	Description
appname	Instance name of the n_cst_appmanager-based Application object (must be gnv_app)
instancename	Instance name of n_cst_trregistration (the n_cst_appmanager default is inv_trregistration)
transobject (optional)	N_tr-based transaction variable to unregister. If you omit this argument, the function removes all registered Transaction objects

Return value

Integer. Returns the number of unregistered objects if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_UnRegister function (n_cst_trregistration)

This example calls the of_UnRegister function:

```
...

gnv_app.inv_trregistration.of_UnRegister(itr_sec)
...
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

n_cst_tvsrv

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3692')}
{button Functions,JI(`>list_win',`id_pfcoref_3694')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3693')} {button
Descendants,JI(`>list_win',`id_pfcoref_3691')}
```

Description

TreeView base service.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

u_tvs

Usage

To use this service:

1 Enable the service by calling the u_tvs of_SetBase function:

```
tv_1.of_SetBase(TRUE)
```

2 Call n_cst_tvsrv functions as needed.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

n_cst_tvsrv

n_cst_tvsrv_levelsource

n_cst_tvsrv_print

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

n_cst_tvsrv

n_cst_lvsrv

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

n_cst_tvsrv

{button Functions,JI(`>list_win',`id_pfcoref_3694')}

N_cst_tvsrv includes instance variables:

Instance variable	Description	Data type	Access	Usage
is_displayitem	Controls message text displayed for a single row	String	Protected	Call of_SetDisplayItem and of_GetDisplayItem to access
is_displayunits	Controls message text displayed for multiple rows	String	Protected	Call of_SetDisplayUnits and of_GetDisplayUnits to access
itv_requestor	TreeView control that owns the n_cst_tvsrv instance	u_tvs	Protected	Used to access and control the associated TreeView control

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

n_cst_tvsrv

{button Instance variables,JI(`>list_win',`id_pfcoref_3693')}

of_FindFirstItemLevel function

of_FindItem function

of_GetDataAny function

of_GetDataNumeric function

of_GetDataString function

of_GetDisplayItem function

of_GetDisplayUnits function

of_SearchChild function

of_SetDisplayItem function

of_SetDisplayUnits function

of_SetRequestor function

N_cst_tvsrv includes precoded functions:

of_FindFirstItemLevel
of_FindItem
of_GetDataAny
of_GetDataNumeric
of_GetDataString
of_GetDisplayItem
of_GetDisplayUnits
of_SearchChild
of_SetDisplayItem
of_SetDisplayUnits
of_SetRequestor

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_FindFirstItemLevel function (n_cst_tvsrv)

{button Object,JI(`>main',`ccjdebjj')} {button Examples,JI(`>Examples',`id_pfcoref_3696')}

Description

Retrieves the first item on a level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_FindFirstItemLevel** (*level*, *handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
level	Integer specifying the TreeView level for which the first item is returned
handle	Long containing the handle of the TreeView item at which to begin searching. Specify 0 to retrieve the first item in the next lower level

Return value

Long. Returns the handle of the first item on the level if the function succeeds, 0 if the item is not found, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_FindFirstItemLevel function (n_cst_tvsrv)

This example calls the of_FindFirstItemLevel function:

```
...

// Retrieve level one on the treeview.
li_rc = tv_1.event pfc_populateitem(0)
// Populate the dual datasource for level one.
ll_itemhandle = &
   tv_1.inv_base.of_FindFirstItemLevel(1, 0)
// Populate level two of the treeview,
//  and start the window with the first
// item on level two selected.
tv_1.SelectItem(ll_itemhandle)
tv_1.ExpandItem(ll_itemhandle)
ll_leveltwoitemhandle = &
   tv_1.inv_base.of_FindFirstItemLevel(2, 0)
tv_1.SelectItem(ll_leveltwoitemhandle)
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_FindItem function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3698')}
```

Description

Searches by label or data for a specified TreeView item.

Access

Public

Syntax

tvcontrol.*instancename*.**of_FindItem** (*attribute*, *target* {, *beginhandle* {, *level* {, *respectcase* {, *fullcompare* } } } })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
attribute	String specifying the TreeView attribute to search. Valid values are: • Label • Data
target	Any variable specifying the label or data that you are searching for
beginhandle (optional)	Long specifying the handle of the TreeView item from which to begin the search. The default is 0, which starts at the top of the TreeView hierarchy
level (optional)	Integer specifying the level to search. Specify 0 to search all levels
respectcase (optional)	Boolean indicating whether the search is case sensitive (TRUE) or not (FALSE). The default is FALSE
fullcompare (optional)	Boolean indicating whether the specified attribute must match *target* exactly (TRUE) or the attribute can contain *target*. This argument applies only when *target* is a string. The default is FALSE

Return value

Long. Returns the handle of the matching item if the function succeeds, 0 if there are no matching items, and -1 if an error occurs.

Usage

This function calls the u_tvs pfc_SearchCompare event to search either the label or Data property. Override pfc_SearchCompare if you want to perform some other type of comparison.

Levels must have been opened This function does not find items in levels that have not been opened.

Created with the Personal Edition of HelpNDoc: Effortlessly Spot and Fix Problems in Your Documentation with HelpNDoc's Project Analyzer

of_FindItem function (n_cst_tvsrv)

This example calls the of_FindItem function:

```
Long   ll_return


ll_return = tv_test.inv_base.of_FindItem("label", &
        sle_item.text, 0, 0, FALSE, FALSE)
IF ll_return = -1 THEN
        MessageBox("TreeView", "Find error")
ELSEIF ll_return = 0 THEN
        MessageBox("TreeView", "No matches found")
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_GetDataAny function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3700')}
```

Description

Retrieves the specified item's Data property cast to the Any data type.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDataAny** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
handle	Long specifying the handle of the item for which the Data property is returned

Return value

Any. Returns the Data property of the specified TreeView item if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetDataAny function (n_cst_tvsrv)

This example calls the of_GetDataAny function:

```
Long  ll_currenttvitem

Any  la_data

ll_currenttvitem = tv_1.FindItem(currenttreeitem!, 0)
la_data = tv_1.inv_levelsource.of_GetDataAny  &
  (ll_currenttvitem)
MessageBox("TV Data", String(la_data))
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetDataNumeric function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3702')}
```

Description

Retrieves the specified item's Data property cast to a number.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetDataNumeric** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
handle	Long specifying the handle of the item for which the Data property is returned

Return value

Long. Returns the Data property of the specified TreeView item if the function succeeds and -1 if an error occurs.

Usage

Call this function when the Data property always contains a number.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Creation with a Help Authoring Tool

of_GetDataNumeric function (n_cst_tvsrv)

This example calls the of_GetDataNumeric function:

```
Long  ll_currenttvitem

Long  ll_data

ll_currenttvitem = tv_1.FindItem(currenttreeitem!, 0)
ll_data = tv_1.inv_levelsource.of_GetDataNumeric  &
```

```
  (ll_currenttvitem)
MessageBox("TV Data", String(ll_data))
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_GetDataString function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3704')}
```

Description

Retrieves the specified item's Data property cast to a string

Access

Public

Syntax

tvcontrol.instancename.**of_GetDataString** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
handle	Long specifying the handle of the item for which the Data property is returned

Return value

String. Returns the Data property of the specified TreeView item if the function succeeds and an empty string if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetDataString function (n_cst_tvsrv)

This example calls the of_GetDataString function:

```
Long  ll_currenttvitem

String  ls_data

ll_currenttvitem = tv_1.FindItem(currenttreeitem!, 0)
ls_data = tv_1.inv_levelsource.of_GetDataString  &
  (ll_currenttvitem)
MessageBox("TV Data", ls_data)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetDisplayItem function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3706')}
```

Description

Retrieves the display name for single items in the TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDisplayItem** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)

Return value

String. Returns the display name for single items in the TreeView.

Usage

PFC uses this name in message text when confirming single-item deletion. For example, if this name is *this row*, PFC displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

of_GetDisplayItem function (n_cst_tvsrv)

This example calls the of_GetDisplayItem function:

```
String    ls_item


ls_item = tv_1.inv_base.of_GetDisplayItem( )
MessageBox("TreeView", "Item label is: " &
        + ls_item)
```

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetDisplayUnits function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3708')}
```

Description

Retrieves the display name for multiple rows in the TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDisplayUnits** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)

Return value

String. Returns the display name for multiple items in the TreeView.

Usage

PFC uses this name in message text when confirming multiple item deletion. For example, if this name is

rows, PFC displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetDisplayUnits function (n_cst_tvsrv)

This example calls the of_GetDisplayUnits function:

```
String    ls_units


ls_units = tv_1.inv_base.of_GetDisplayUnits( )
MessageBox("TreeView", "Unit label is: " &
        + ls_units)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SearchChild function (n_cst_tvsrv)

`{button Object,JI(`>main',`ccjdebjj')} {button Examples,JI(`>Examples',`id_pfcoref_3710')}`

Description

Searches for a string in either the label or data TreeView item attribute.

Access

Protected

Syntax

tvcontrol.instancename.**of_SearchChild** (*attribute*, *target*, *beginhandle*, *level* *respectcase*, *fullcompare*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
attribute	String specifying the TreeView attribute to search. Valid values are: • Label • Data
target	Any variable specifying the label or data to search for
beginhandle	Long specifying the handle of the TreeView item from which to begin the search
level	Integer specifying the level to search
respectcase	Boolean indicating whether the search is case sensitive (TRUE) or not (FALSE)
fullcompare	Boolean indicating whether the specified attribute must match *target* exactly (TRUE) or the attribute can contain *target*

Return value

Long. Returns the handle of the matching item if the function succeeds, 0 if there are no matching items, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SearchChild function (n_cst_tvsrv)

This example is from the of_FindItem function:

```
...

ll_Found = this.of_SearchChild(as_Attribute,  &
   aa_Target, al_Begin, ai_Level, &
      ab_RespectCase, ab_FullCompare)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_SetDisplayItem function (n_cst_tvsrv)

```
{button Object,JI(`>main',`ccjdebjj')} {button
Examples,JI(`>Examples',`id_pfcoref_3712')}
```

Description

Specifies the display name for single items in the TreeView.

Access

Public

Syntax

tvcontrol.*instancename*.**of_SetDisplayItem** (*itemname*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
itemname	String specifying the display name for single items in the TreeView

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC uses this name in message text when confirming single-row deletion. For example, if you specify *this row*, PFC displays `Are you sure you want to delete this row?`

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_SetDisplayItem function (n_cst_tvsrv)

This example calls the of_SetDisplayItem function:

```
...

tv_1.inv_base.of_SetDisplayItem("the selected row")
...
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SetDisplayUnits function (n_cst_tvsrv)

`{button Object,JI(`>main',`ccjdebjj')} {button Examples,JI(`>Examples',`id_pfcoref_3714')}`

Description

Specifies the display name for multiple items in the TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_SetDisplayUnits** (*units*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
units	String specifying the display name for multiple rows of the TreeView

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

PFC uses this name in message text when confirming multiple item deletion. For example, if this name is *rows*, PFC displays `Are you sure you want to delete these rows?`

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_SetDisplayUnits function (n_cst_tvsrv)

This example calls the of_SetDisplayUnits function:

```
...

tv_1.inv_base.of_SetDisplayUnits("selected rows")
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetRequestor function (n_cst_tvsrv)

`{button Object,JI(`>main',`ccjdebjj')} {button Examples,JI(`>Examples',`id_pfcoref_3716')}`

Description

Associates the requesting object with this instance of n_cst_tvsrv.

Access

Public

Syntax

tvcontrol.instancename.**of_SetRequestor** (*requestor*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv (the u_tvs default is inv_base)
requestor	U_tvs-based TreeView control to be associated with the service

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_SetRequestor function (n_cst_tvsrv)

This example is from the u_tvs_of_SetBase function:

```
...

if ab_Switch then
  if IsNull(inv_base) Or not IsValid (inv_base) then
    inv_base = create n_cst_tvsrv
    inv_base.of_SetRequestor(this)
    li_rc = 1
  end if
else
...
```

Created with the Personal Edition of HelpNDoc: Revolutionize Your CHM Help File Output with HelpNDoc

n_cst_tvsrv_levelsource

```
{button Ancestor,JI(`>main',`ccjdebjj')} {button See also,PI(`',`id_pfcoref_3718')}
{button Functions,JI(`>list_win',`id_pfcoref_3744')} {button
Events,JI(`>list_win',`id_pfcoref_3720')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3719')}
```

Description

TreeView data access object. Use this object to display data in a u_tvs control and perform actions on that data. This data can come from a:

SQL statement

DataWindow object

DataStore

DataWindow control

PowerObject

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Object relationships

n_cst_dwcache

n_cst_tvsrvattrib

n_ds

n_tr

Usage

To use this object:

1 Enable the service using the u_tvs of_SetLevelSource function:

```
this.of_SetLevelSource(TRUE)
```

2 Define a data source for each TreeView level by calling the of_Register function, once for each

level:

```
this.inv_levelsource.of_Register(1,  &

   "dept_name", "", "d_deptlist", SQLCA, "")
this.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
```

3 Call additional functions as needed to control TreeView behavior:

```
this.inv_levelsource.of_SetPictureColumn(1, "1")

this.inv_levelsource.of_SetSelectedPictureColumn  &
   (1, "2")this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (2, "5")
```

4 Extend the pfc_Retrieve function, adding logic that handles retrieval arguments and calls the u_tvs of_Retrieve function:

```
Any la_args[20]

Integer li_level
TreeViewItem  ltvi_item

IF IsValid(this.inv_levelsource) THEN
            li_level = of_GetNextLevel(al_parent)
            this.inv_levelsource.of_GetArgs(al_parent,  &
      li_level, la_args)
END IF
Return this.of_Retrieve  &
   (al_parent, la_args, ads_data)
```

5 Populate the TreeView by calling the u_tvs pfc_Populate event:

```
this.event pfc_Populate(0)
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_cst_tvsrv_levelsource

n_cst_lvsrv_datasource

n_cst_tvsrv

n_cst_tvsrv_print

u_tvs

Created with the Personal Edition of HelpNDoc: Make the switch to CHM with HelpNDoc's hassle-free WinHelp HLP to CHM conversion tool

n_cst_tvsrv_levelsource

{button Functions,JI(`>list_win',`id_pfcoref_3744')} {button Events,JI(`>list_win',`id_pfcoref_3720')}

N_cst_tvsrv_levelsource includes instance variables:

Instance variable	Description	Data type	Access	Usage
BOTTOMUP	Constant set to 2	Integer	Public	Use with of_SetUpdateStyle
BOTTOMUP_TOPDOWN	Constant set to 4	Integer	Public	Use with of_SetUpdateStyle
CACHE_ID	Constant set to "level"	String	Public	Internal
CUSTOM	Constant set to 101	Integer	Public	Use with of_SetUpdateStyle
DELETE_ROWS	Constant set to 1	Integer	Public	Internal
DISCARD_ROWS	Constant set to 0	Integer	Public	Internal
ib_confirmondelete	Indicates whether confirm on delete is enabled	Boolean	Protected	Set with of_SetConfirmOnDelete (default is FALSE)
ib_isrefreshing	Indicates whether a refresh is occurring	Boolean	Protected	Internal
ib_isundoing	Indicates whether an undo is occurring	Boolean	Protected	Internal
ib_undo	Indicates whether undo is enabled	Boolean	Protected	Set with of_SetUndo
ii_customupdate	Custom update indicator	Integer	Protected	Set with of_SetCustomUpdate
ii_updatestyle	Indicates how PFC performs updates	Integer	Protected	Set with of_SetUpdateStyle
il_undodeletehandle	Deleted item	Long	Protected	Internal
il_undodeleteparenthandle	Parent of deleted item	Long	Protected	Internal
il_undoedithandle	Modified items	Long	Protected	Internal
il_undoinserthandle	Last inserted item	Long	Protected	Internal
inv_attrib[ ]	Data source information	n_cst_tvsrvattrib	Protected	Set with of_Register
inv_cache	Cached data	n_cst_dwcache	Protected	Internal
is_pfckey	Key value for cache	String	Protected	Internal
is_undoeditlabeltext	Modified label text	String	Protected	Internal
is_undotype	Undo type	String	Protected	Internal
itvi_undodeleteitem	Deleted item	TreeViewItem	Protected	Internal
UNDO_DELETE	Constant set to "Delete"	String	Public	Internal
UNDO_EDIT	Constant set to "Edit"	String	Public	Internal
UNDO_INSERT	Constant set to "Insert"	String	Public	Internal

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

n_cst_tvsrv_levelsource

{button Functions,JI(`>list_win',`id_pfcoref_3744')} {button Instance variables,JI(`>list_win',`id_pfcoref_3719')}

- Constructor event
- Destructor event

pfc_DeleteItem event

pfc_EndLabelEdit event

pfc_InsertItem event

pfc_ItemExpanding event

pfc_RefreshItem event

pfc_RefreshLevel event

pfc_SetItemAttributes event

pfc_Undo event

pfc_UndoDelete event

pfc_UndoEdit event

pfc_UndoInsert event

N_cst_tvsrv_levelsource includes precoded events:

Constructor	pfc_RefreshLevel
Destructor	pfc_SetItemAttributes
pfc_DeleteItem	pfc_Undo
pfc_EndLabelEdit	pfc_UndoDelete
pfc_InsertItem	pfc_UndoEdit
pfc_ItemExpanding	pfc_UndoInsert
pfc_RefreshItem	

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

Constructor event (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')}

Description

Enables the caching service.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

Destructor event (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')}

Description

Destroys the caching service.

Usage

This event executes when the object is destroyed.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

pfc_DeleteItem event (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3724')}

Description

Deletes the item from the TreeView and the row from the DataStore.

Syntax

*tvcontrol.instancename.*EVENT **pfc_DeleteItem** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
handle	Long specifying the handle of the TreeView item being deleted

Return value

Integer. Returns 1 if the event succeeds and 0 if no action is taken.

Usage

This event does not perform processing if refreshing, resetting, or undoing an insert.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation Process with HelpNDoc's Advanced Features

pfc_DeleteItem event (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_DeleteItem event:

```
...

If isvalid(inv_levelsource) then
        Return inv_levelsource.event pfc_DeleteItem  &
      (ll_currentitem)
else
        Return this.deleteitem(ll_currentitem)
end if
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

pfc_EndLabelEdit event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3726')}
```

Description

Changes the label column in the associated data source.

Syntax

*tvcontrol.instancename.*EVENT **pfc_EndLabelEdit** (*handle*, *newlabel*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
handle	Long specifying the handled of the modified TreeView item
newlabel	String specifying the udpated label

Return value

Integer. Returns 0 if the label update is allowed and 1 if PowerBuilder should prevent the label update.

Usage

PFC allows label update only when the associated label column is updatable. If the label column is a

computed column, you must override this event to update the computed column and return a 1.

This event does not update the database.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_EndLabelEdit event (n_cst_tvsrv_levelsource)

This example is from the u_tvs EndLabelEdit event:

```
...

if isvalid(inv_levelsource) then
        li_rc = inv_levelsource.event pfc_EndLabelEdit  &
      (handle, newtext)        // prevent new text from becoming the label
        If li_rc < 1 then Return 1
end if
...
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

pfc_InsertItem event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3728')}
```

Description

Inserts a new item into the TreeView.

Syntax

tvcontrol.instancename.EVENT **pfc_InsertItem** (*parent*, *datastore*, *row*, *item*, *position*, *handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
parent	Long specifying the handle of the TreeView item under which the new item is added. This argument is accessed through the *al_parent* argument
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_tvsrv_levelsource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same and the function also adds the row to the DataStore maintained by n_cst_tvsrv_levelsource. This argument is accessed through the *ads_source* argument
row	Long specifying the row containing the item to be inserted. This argument is accessed through the *al_row*argument
item	TreeViewItem containing the item to be inserted. This argument is accessed through the *atvi_item* argument
position	String specifying the position under the current parent in which to insert the new item. Values are: • First • Last • Sort • After This argument is accessed through the *as_position* argument

handle	Long containing the handle to the item before the item to be inserted. The function uses this argument if you specify After for *position*. This argument is accessed through the *al_handle* argument

Return value

Integer. Returns the handle of the new item if the function succeeds and -1 if an error occurs.

Usage

The u_tvs pfc_InsertItem event calls this event.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

pfc_InsertItem event (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_InsertItem event:

```
...

If isvalid(inv_levelsource) then
        Return inv_levelsource.event &
      pfc_InsertItem(al_parent, ads_source, al_row,  &
        ltvi_new, as_position, al_handle)
else
        Choose Case Lower(as_Position)
        Case INSERT_LAST
            Return this.InsertItemLast(al_Parent,  &
            ltvi_new)
...
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

pfc_ItemExpanding event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3730')}
```

Description

Populates an item with its children.

Syntax

tvcontrol.instancename.EVENT **pfc_ItemExpanding** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
handle	Long specifying the handle of the TreeView item being expanded. This argument is accessed through the *al_handle* argument

Usage

The u_tvs ItemExpanding event calls this event.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

pfc_ItemExpanding event (n_cst_tvsrv_levelsource)

This example is from the u_tvs ItemExpanding event:

```
If IsValid(inv_levelsource) Then

        inv_levelsource.event pfc_ItemExpanding(handle)
end if
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

pfc_RefreshItem event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3732')}
```

Description

Refreshes the specified TreeView item, resetting all properties to the defaults specified in the data source.

Syntax

tvcontrol.instancename.EVENT **pfc_RefreshItem** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
handle	Long specifying the handle of the TreeView item to refresh. This argument is accessed through the *al_handle* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_tvs pfc_RefreshItem event calls this event.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

pfc_RefreshItem event (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_RefreshItem event:

```
If isvalid(inv_levelsource) then

        Return inv_levelsource.event  &
      pfc_RefreshItem(al_handle)
End If
```

Created with the Personal Edition of HelpNDoc: Make CHM Help File Creation a Breeze with HelpNDoc

pfc_RefreshLevel event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3734')}
```

Description

Refreshes the specified TreeView level, resetting all properties to the defaults specified in the data source.

Syntax

*tvcontrol.instancename.*EVENT **pfc_RefreshLevel** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
level	Integer specifying the TreeView level to refresh

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The u_tvs pfc_RefreshLevel event calls this event.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

pfc_RefreshLevel event (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_RefreshLevel event:

```
If isvalid(inv_levelsource) then

        Return inv_levelsource.event pfc_RefreshLevel  &
      (ai_level)
End IF
...
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

pfc_SetItemAttributes event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')}
```

Description

Sets default properties for the TreeView item before insertion.

Syntax

*tvcontrol.instancename.*EVENT **pfc_SetItemAttributes** (*data*, *row*, *tvitem*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)
data	N_ds containing the data for the item. This argument is accessed through the *ads_obj* argument

row	Long specifying the row from which to populate the item. This argument is accessed through the *al_row*argument
tvitem	TreeViewItem to be inserted. This argument is accessed through the *atvi_item* argument (passed by reference)

Usage

Optionally extend this event to change TreeView item properties before insertion.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

pfc_Undo event (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3737')}

Description

Restores the last TreeView change.

Syntax

*tvcontrol.instancename.*EVENT **pfc_Undo** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

pfc_Undo event (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_Undo event:

```
...

if isvalid(inv_levelsource) then
        li_rc = inv_levelsource.event pfc_Undo()
end if
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

pfc_UndoDelete event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3739')}
```

Description

Restores the last deleted item. This event does not restore children of the last deleted item.

Syntax

*tvcontrol.instancename.*EVENT **pfc_UndoDelete** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

pfc_UndoDelete event (n_cst_tvsrv_levelsource)

This example is from the pfc_Undo event:

```
...

If of_CanUndo(ls_undotype) then
        Choose Case ls_UndoType
       Case UNDO_DELETE
          return this.event pfc_UndoDelete()
...
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

pfc_UndoEdit event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3741')}
```

Description

Restores a label's previous value in the associated DataStore.

Syntax

*tvcontrol.instancename.*EVENT **pfc_UndoEdit** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)

Return value

Integer. Returns 1 if the event succeeds, 0 if there is nothing to undo, and -1 if an error occurs.

Usage

PFC allows label update only when the associated label column is updatable. If the label column is a computed column, you must override this event to update the computed column and return a 1.

Created with the Personal Edition of HelpNDoc: iPhone web sites made easy

pfc_UndoEdit event (n_cst_tvsrv_levelsource)

This example is from the pfc_Undo event:

```
...

If of_CanUndo(ls_undotype) then
        Choose Case ls_UndoType
       Case UNDO_DELETE
          return this.event pfc_undodelete()
       Case UNDO_INSERT
          return this.event pfc_undoinsert()
       Case UNDO_EDIT
          return this.event pfc_UndoEdit()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

pfc_UndoInsert event (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3743')}
```

Description

Removes the last inserted item.

Syntax

*tvcontrol.instancename.*EVENT **pfc_UndoInsert** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default for this value is inv_levelsource)

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

pfc_UndoInsert event (n_cst_tvsrv_levelsource)

This example is from the pfc_Undo event:

```
...

Choose Case ls_UndoType
        Case UNDO_DELETE
       return this.event pfc_undodelete()
        Case UNDO_INSERT
       return this.event pfc_UndoInsert()
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

n_cst_tvsrv_levelsource

{button Events,JI(`>list_win',`id_pfcoref_3720')} {button Instance variables,JI(`>list_win',`id_pfcoref_3719')}

of_CanUndo function
of_ClearUndo function
of_ConfirmDelete function
of_ConfirmOnDelete function
of_ConvertToRow function
of_DecodeKey function
of_DeleteItem function
of_DiscardChildren function
of_EncodeKey function
of_GetArgs function
of_GetCustomUpdate function
of_GetDataObject function
of_GetDataRow function
of_GetDataSource function
of_GetDeleteStyle function
of_GetHandle function
of_GetLabelColumn function
of_GetLevel function
of_GetLevelAttributes function
of_GetLevelCount function
of_GetMethod function
of_GetObjects function
of_GetOverlayPictureColumn function
of_GetPictureColumn function
of_GetRetrieveArgs function
of_GetSelectedPictureColumn function
of_GetStatePictureColumn function
of_GetTransObject function
of_GetUpdateStyle function
of_InsertItem function
of_IsConfirmOnDelete function
of_IsRecursiveLevel function
of_ParseArgs function
of_ParseCols function
of_Register function
of_RegisterDataSource function
of_RemoveChildren function
of_Reset function
of_ResetTree function

of_ResetUpdate function

of_Retrieve function

of_SetCache function

of_SetConfirmOnDelete function

of_SetCustomUpdate function

of_SetDeleteStyle function

of_SetItemAttributes function

of_SetOverlayPictureColumn function

of_SetPictureColumn function

of_SetRecursive function

of_SetSelectedPictureColumn function

of_SetStatePictureColumn function

of_SetUndo function

of_SetUpdateStyle function

of_UnRegister function

of_Update function

of_UpdateCustom function

N_cst_tvsrv_levelsource includes precoded functions:

of_CanUndo
of_ClearUndo
of_ConfirmDelete
of_ConfirmOnDelete
of_ConvertToRow
of_DecodeKey
of_DeleteItem
of_DiscardChildren
of_EncodeKey
of_GetArgs
of_GetCustomUpdate
of_GetDataObject
of_GetDataRow
of_GetDataSource
of_GetDeleteStyle
of_GetHandle
of_GetLabelColumn
of_GetLevel
of_GetLevelAttributes
of_GetLevelCount
of_GetMethod
of_GetObjects
of_GetOverlayPictureColumn
of_GetPictureColumn
of_GetRetrieveArgs
of_GetSelectedPictureColumn
of_GetStatePictureColumn
of_GetTransObject
of_GetUpdateStyle
of_InsertItem
of_IsConfirmOnDelete
of_IsRecursiveLevel
of_ParseArgs
of_ParseCols
of_Register
of_RegisterDataSource
of_RemoveChildren
of_Reset
of_ResetTree
of_ResetUpdate
of_Retrieve
of_SetCache
of_SetConfirmOnDelete
of_SetCustomUpdate
of_SetDeleteStyle
of_SetItemAttributes
of_SetOverlayPictureColumn
of_SetPictureColumn
of_SetRecursive
of_SetSelectedPictureColumn
of_SetStatePictureColumn
of_SetUndo
of_SetUpdateStyle
of_UnRegister
of_Update
of_UpdateCustom

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_CanUndo function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3746')}

Description

Reports whether the TreeView can undo the last edit, insertion, or deletion, optionally returning the operation type.

Access

Public

Syntax

tvcontrol.instancename.**of_CanUndo** ({ *undotype* })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
undotype (optional)	String into which the function places the type of the last operation (passed by reference): • **UNDO_EDIT or "Edit"** Edit • **UNDO_INSERT or "Insert"** Insertion • **UNDO_DELETE or "Delete"** Deletion

Return value

Boolean. Returns TRUE if the last operation can be undone and FALSE if it cannot.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_CanUndo function (n_cst_tvsrv_levelsource)

This example calls the of_CanUndo function:

```
IF tv_1.inv_levelsource.of_CanUndo() THEN

   MessageBox("TreeView", "Can undo")
ELSE
   MessageBox("TreeView", "Cannot undo")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_ClearUndo function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3748')}

Description

Clears the TreeView's undo properties.

Access

Protected

Syntax

tvcontrol.instancename.**of_ClearUndo** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_ClearUndo function (n_cst_tvsrv_levelsource)

This example is from the of_ResetTree function:

```
...

this.of_ClearUndo()
...
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_ConfirmDelete function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3750')}
```

Description

Displays a message box allowing the user to confirm a deletion.

Access

Public

Syntax

tvcontrol.instancename.**of_ConfirmDelete** (*amount*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
amount	Long specifying the number of rows to be deleted

Return value

Integer. Returns 1 if deletion should proceed, 2 if deletions should not proceed, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_ConfirmDelete function (n_cst_tvsrv_levelsource)

This example is from the u_tvs of_DeleteItem event:

```
...

if inv_levelsource.of_IsConfirmOnDelete() then
   li_confirm = inv_levelsource.of_ConfirmDelete(1)
      if li_confirm <> CONTINUE_ACTION then
         return PREVENT_ACTION
...
```

Created with the Personal Edition of HelpNDoc: Don't Let Unauthorized Users View Your PDFs: Learn How to Set Passwords

of_ConfirmOnDelete function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3752')}

Description

Reports whether a confirmation dialog box displays when the user deletes a row.

Access

Protected

Syntax

tvcontrol.instancename.**of_ConfirmOnDelete** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Boolean. Returns TRUE if confirm on delete is enabled and FALSE if it is disabled.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_ConfirmOnDelete function (n_cst_tvsrv_levelsource)

This example is from the n_cst_tvsrv_levelsource of_DeleteItem function:

```
...

if of_ConfirmOnDelete() then
        li_confirm = of_ConfirmDelete(1)
...
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_ConvertToRow function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3754')}
```

Description

Converts an array of data into a row in the DataStore.

Access

Public

Syntax

tvcontrol.*instancename*.**of_ConvertToRow** (*parent*, *colvalues*, *datastore*, *row*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
parent	Long specifying the handle of the TreeView parent to which the row is added
colvalues	Any array containing the data to be used for the new row
datastore	N_ds instance into which the function places the new row (passed by reference)
row	Long into which the function places the new row number (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You do not need to add a row to the associated DataStore before calling this function.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_ConvertToRow function (n_cst_tvsrv_levelsource)

This example is from the u_tvs of_AddItem function:

```
...

If inv_levelsource.of_ConvertToRow(al_parent,  &
  aa_columnvalues, lds_datastore, ll_row) <> 1 Then
    Destroy lds_datastore
    Return -1
End If
...
```

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_DecodeKey function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3756')}
```

Description

Retrieves the decoded key from the TreeView item's data attribute.

Access

Public

Syntax

tvcontrol.instancename.**of_DecodeKey** (*data*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
data	String containing the ListView item's data attribute

Return value

String. Returns the unique key if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_DecodeKey function (n_cst_tvsrv_levelsource)

This example is from the pfc_UndoDelete event:

```
...

ls_undokey = of_DecodeKey(string(ltvi_undo.data))
...
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_DeleteItem function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3758')}
```

Description

Removes either the specified item or all selected items from a TreeView level and the associated DataStore.

Access

Public

Syntax

tvcontrol.instancename.**of_DeleteItem** (*handle*)

Argument	Description

tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
handle	Long specifying the handle of the item to be deleted

Return value

Integer. Returns 1 if the function succeeds, 0 if nothing was deleted, and -1 if an error occurs.

Usage

The pfc_DeleteItem and pfc_UndoInsert events call this function.

Created with the Personal Edition of HelpNDoc: Easy CHM and documentation editor

of_DeleteItem function (n_cst_tvsrv_levelsource)

This example is from the pfc_DeleteItem event:

```
...

Return this.of_DeleteItem(al_handle)
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_DiscardChildren function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3760')}
```

Description

Removes from the TreeView all items below a specified item, discarding the rows from the associated DataStores.

Access

Public

Syntax

tvcontrol.instancename.**of_DiscardChildren** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
handle	Long specifying the handle of the item whose children are to be deleted

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pfc_RefreshItem event calls this function.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_DiscardChildren function (n_cst_tvsrv_levelsource)

This example is from the pfc_RefreshItem event:

```
...

IF this.of_DiscardChildren(al_Handle) = -1 THEN
   Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_EncodeKey function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3762')}
```

Description

Creates an encoded key from the TreeView item's data attribute. The service uses this key to access rows in the associated DataStore.

Access

Public

Syntax

tvcontrol.instancename.**of_EncodeKey** (*source*, *row*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
source	N_ds containing the DataStore to populate the item
row	Long specifying the row containing the item

Return value

String. Returns the unique key if the function succeeds and ! if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_EncodeKey function (n_cst_tvsrv_levelsource)

This example is from the of_InsertItem function:

```
...

ls_key = this.of_EncodeKey  &
   (inv_attrib[li_Index].ids_obj, al_row)
...
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_GetArgs function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3764')}
```

Description

Retrieves the retrieval arguments for a specified TreeView level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetArgs** (*parent*, *level*, *arguments*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
parent	Long containing the handle of the parent of the current TreeView item
level	Integer specifying the current TreeView level
arguments	Twenty-element array of the Any data type into which the function places the retrieval arguments

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetArgs function (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_Retrieve event:

```
...

If isvalid(inv_levelsource) then
        li_level = of_GetNextLevel(al_parent)
        inv_levelsource.of_GetArgs(al_Parent,  &
      li_Level, aa_Arg)
End If
...
```

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

of_GetCustomUpdate function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3766')}
```

Description

Retrieves the current custom update attribute.

Access

Public

Syntax

tvcontrol.instancename.**of_GetCustomUpdate** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns the current custom update attribute.

Usage

The level source service architecture allows for multiple custom updates. Define an of_UpdateCustom function in the n_cst_tvsrv_levelsource extension level object and call this function to determine the current custom update style.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetCustomUpdate function (n_cst_tvsrv_levelsource)

This example calls the of_GetCustomUpdate function:

```
IF this.of_GetCustomUpdate() = 1 THEN

        Return this.of_UpdateBottomUp()
ELSE
        Return this.of_UpdateTopDown()
END IF
```

Created with the Personal Edition of HelpNDoc: Elevate your documentation to new heights with HelpNDoc's built-in SEO

of_GetDataObject function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3768')}
```

Description

Retrieves the DataWindow object used as the level's data source.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDataObject** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the level for which the function returns the DataWindow object

Return value

String. Returns the name of the DataWindow object used to store data for display in the TreeView.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_GetDataObject function (n_cst_tvsrv_levelsource)

This example calls the of_GetDataObject function:

```
String   ls_dataobject


ls_dataobject =  &
   tv_1.inv_levelsource.of_GetDataObject(1)
MessageBox("TreeView", "DataWindow object is: "  &
   + ls_dataobject)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_GetDataRow function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3770')}
```

Description

Retrieves from the DataStore the row that corresponds to the specified TreeView item.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDataRow** (*handle*, *datasource*, *row*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
handle	Long specifying the handle for the TreeView item
datasource	N_ds specifying the DataStore that contains the row (passed by reference)
row	Long specifying the row in *datasource* that corresponds to *handle* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

By using this function, you can update rows in the DataSource.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_GetDataRow function (n_cst_tvsrv_levelsource)

This example is from the pfc_EndLabelEdit event:

```
...

If of_GetDataRow(al_handle, lds_obj, ll_Row) = -1 Then
        Return -1
End If
...
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetDataSource function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3772')}
```

Description

Retrieves a reference to the DataStore associated with a specified TreeView level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetDataSource** (*level*, *datastore*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the level for which a DataStore reference is returned
datastore	N_ds variable into which the function places a reference to the DataStore associated with *level* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if the DataStore is not found.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_GetDataSource function (n_cst_tvsrv_levelsource)

This example calls the of_GetDataSource function:

```
Long  ll_current, ll_return

TreeViewItem   ltvi_item
n_ds  lds_datastore

ll_current = tv_test.FindItem (CurrentTreeItem!, 0)
ll_return = tv_test.GetItem(ll_current, ltvi_item)

ll_return = tv_test.inv_levelsource.of_GetDataSource &
        (ltvi_item.level, lds_datastore)
IF ll_return = -1 THEN
        MessageBox("TreeView", "DataStore not found")
ELSE
        MessageBox("TreeView", &
       "Current level is: " &
       + String(ltvi_item.level) &
       + "~r~nDataWindow object is: " &
```

```
        + lds_datastore.DataObject)
END IF
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_GetDeleteStyle function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3774')}
```

Description

Retrieves the current delete style.

Access

Public

Syntax

tvcontrol.instancename.**of_GetDeleteStyle** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns the current delete style:

- **0 or DEFAULT** Default deletion style
- **1 or DELETE_ROWS** Delete rows from the database
- **2 or DISCARD_ROWS** Discard rows from the DataStore buffer

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_GetDeleteStyle function (n_cst_tvsrv_levelsource)

This example calls the of_GetDeleteStyle function:

```
Integer  li_style


li_style =  &
   tv_1.inv_levelsource.of_GetDeleteStyle()
MessageBox("Delete Style", "Delete style is "  &
   + String(li_style))
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

of_GetHandle function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3776')}
```

Description

Retrieves the TreeView handle for a specified row in the DataStore.

Access

Public

Syntax

tvcontrol.instancename.**of_GetHandle** (*datasource*, *row* { , *level* })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
datasource	N_ds specifying the DataStore that contains the row (passed by reference)
row	Long specifying the row in *datasource* for which the handle is returned
level (optional)	Integer specifying the level for which a DataStore reference is returned. Specify 0 to search the entire tree. If you don't specify this argument, the function uses the level for which *datasource* is registered

Return value

Long. Returns the handle associated with *row* if the function succeeds, 0 if *row* is not found, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetHandle function (n_cst_tvsrv_levelsource)

This example is from the pfc_RefreshLevel event:

```
...

For ll_row = 1 to ll_rowcount
        ll_handle = this.of_GetHandle(lds_source,  &
      ll_row, ai_level)
        If ll_handle < 1 Then Continue
...
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetLabelColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3778')}
```

Description

Retrieves the name of the column used as the TreeView item label.

Access

Public

Syntax

tvcontrol.instancename.**of_GetLabelColumn** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the level for which the function returns the column used as

the item label

Return value

String. Returns the data source column name if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetLabelColumn function (n_cst_tvsrv_levelsource)

This example calls the of_GetLabelColumn function:

```
String  ls_col


ls_col = tv_1.inv_levelsource.of_GetLabelColumn()
MessageBox("TreeView", "Label column is: "  &
   + ls_col)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_GetLevel function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3780')}
```

Description

Retrieves the level for a specified TreeView item.

Access

Public

Syntax

tvcontrol.instancename.**of_GetLevel** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
handle	Either of the following: • A long specifying the TreeView item handle for which the function returns the level • An n_ds instance containing the DataStore for which the function returns the associated level

Return value

Integer. Returns the level for *handle* if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetLevel function (n_cst_tvsrv_levelsource)

This example calls the of_GetLevel function:

```
Long  ll_currenttvitem

Integer  li_level

ll_currenttvitem = tv_1.FindItem(currenttreeitem!, 0)
li_level = tv_1.inv_levelsource.of_GetLevel  &
  (ll_currenttvitem)
MessageBox("TreeView level", "Level is: "  &
  + String(li_level))
```

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_GetLevelAttributes function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3782')}
```

Description

Retrieves the attributes used to populate the specified level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetLevelAttributes** (*level*, *tvattrib*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns attributes
tvattrib	N_cst_tvsrvattrib into which the function places the attributes (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_GetLevelAttributes function (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_PreInsert event:

```
...

If isvalid(inv_levelsource) then
        li_newlevel = of_GetNextLevel(al_parent)
        li_maxlevels = inv_levelsource.of_GetLevelCount()
        inv_levelsource.of_GetLevelAttributes  &
      (li_newlevel, lnv_attrib)
...
```

Created with the Personal Edition of HelpNDoc: Don't be left in the past: convert your WinHelp HLP help

files to CHM with HelpNDoc

of_GetLevelCount function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3784')}
```

Description

Retrieves the number of levels defined for the TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_GetLevelCount** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns the number of levels defined for the TreeView if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_GetLevelCount function (n_cst_tvsrv_levelsource)

This example calls the of_GetLevelCount function:

```
Integer  li_levels


li_levels = tv_1.inv_levelsource.of_GetLevelCount()
MessageBox("TreeView", "Level count is: "  &
   + String(li_levels))
```

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Process with HelpNDoc's Project Analyzer

of_GetMethod function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3786')}
```

Description

Retrieves the method used to populate the TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_GetMethod** (*level*)

Argument	Description

tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the population method

Return value

String. Returns the method used to populate the TreeView:

DataObjectData

DataStoreControl

DataWindowControl

ImportFile

PowerObject

Retrieve

SQL

Usage

The of_Register function controls the method used to populate the TreeView.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetMethod function (n_cst_tvsrv_levelsource)

This example calls the of_GetMethod function:

```
String  ls_method


ls_method = tv_1.inv_levelsource.of_GetMethod(1)
MessageBox("TreeView", "Method is: " + ls_method)
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_GetObjects function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3788')}
```

Description

Retrieves a list of updatable data sources.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetObjects** (*objects*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
objects	PowerObject array into which the function places references to updatable

objects (passed by reference)

Return value

Integer. Returns the number of elements in the *objects* array if the function succeeds and -1 if an error occurs.

Usage

DataStores are the only updatable data source.

Created with the Personal Edition of HelpNDoc: Effortlessly Publish Your Word Document as an eBook

of_GetObjects function (n_cst_tvsrv_levelsource)

This example calls the of_GetObjects function:

```
PowerObject  lpo_obj[ ]


Integer  li_return, li_count
n_ds  lds_data
String  ls_message

li_return = tv_1.inv_levelsource.of_GetObjects  &
   (lpo_obj)
FOR li_count = 1 to li_return
  IF lpo_obj[li_count].TypeOf() = DataStore! THEN
    lds_data = lpo_obj[li_count]
     ls_message += lds_data.DataObject
     ls_message += "~r~n"
   END IF
NEXT
MessageBox("TreeView", ls_message)
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_GetOverlayPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3790')}
```

Description

Retrieves the name or number of the column that specifies the overlay picture.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetOverlayPictureColumn** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the overlay picture column

Return value

String. Returns the name of the column that specifies the overlay picture if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_GetOverlayPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_GetOverlayPictureColumn function:

```
String  ls_column


ls_column =  &
   tv_1.inv_levelsource.of_GetOverlayPictureColumn(1)
MessageBox("TreeView", "Overlay is: " + ls_column)
```

Created with the Personal Edition of HelpNDoc: From Word to ePub or Kindle eBook: A Comprehensive Guide

of_GetPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3792')}
```

Description

Retrieves the name or number of the column that specifies the picture used with unselected items.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetPictureColumn** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the picture column

Return value

String. Returns the name of the column that specifies the picture if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_GetPictureColumn function:

```
String  ls_column


ls_column = &
```

```
    tv_1.inv_levelsource.of_GetPictureColumn(1)
MessageBox("TreeView", "Picture is: " + ls_column)
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_GetRetrieveArgs function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3794')}
```

Description

Retrieves the retrieval definition for the specified TreeView level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetRetrieveArgs** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the retrieval arguments

Return value

String. Returns the retrieval definition if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_GetRetrieveArgs function (n_cst_tvsrv_levelsource)

This example calls the of_GetRetrieveArgs function:

```
String  ls_args


ls_args =  &
   tv_1.inv_levelsource.of_GetRetrieveArgs(2)
MessageBox("TreeView", "Retrieval spec: " + ls_args)
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_GetSelectedPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3796')}
```

Description

Retrieves the name or number of the column that specifies the selected picture.

Access

Public

Syntax

tvcontrol.instancename.**of_GetSelectedPictureColumn** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the selected picture column

Return value

String. Returns the name of the column that specifies the selected picture if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_GetSelectedPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_GetSelectedPictureColumn function:

```
String  ls_column


ls_column =  &
   tv_1.inv_levelsource.of_GetSelectedPictureColumn(1)
MessageBox("TreeView", "Selected is: " + ls_column)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

of_GetStatePictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3798')}
```

Description

Retrieves the name or number of the column that specifies the state picture.

Access

Public

Syntax

tvcontrol.instancename.**of_GetStatePictureColumn** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the state picture column

Return value

String. Returns the name of the column that specifies the state picture if the function succeeds and ! if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetStatePictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_GetStatePictureColumn function:

```
String  ls_column


ls_column =  &
   tv_1.inv_levelsource.of_GetStatePictureColumn(2)
MessageBox("TreeView", "State picture is: " +  &
   ls_column)
```

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

of_GetTransObject function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3800')}
```

Description

Retrieves the Transaction object for a specified level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_GetTransObject** (*level*, *trans*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level for which the function returns the population method
trans	N_tr into which the function places a reference to the Transaction object defined for *level* (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if there was no valid Transaction object for *level*.

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_GetTransObject function (n_cst_tvsrv_levelsource)

This example calls the of_GetTransObject function:

```
Integer  li_return

n_tr  ltr_trans
```

```
li_return = tv_1.inv_levelsource.of_GetTransObject  &
   (1, ltr_trans)
...
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_GetUpdateStyle function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3802')}
```

Description

Retrieves the update style for the current TreeView.

Access

Public

Syntax

tvcontrol.instancename.**of_GetUpdateStyle** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns the update style:

- **1 or TOPDOWN**
- **2 or BOTTOMUP**
- **3 or TOPDOWN_BOTTOMUP**
- **4 or BOTTOMUP_TOPDOWN**
- **101 or CUSTOM**

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_GetUpdateStyle function (n_cst_tvsrv_levelsource)

This example calls the of_GetUpdateStyle function:

```
Integer  li_count


li_count = tv_1.inv_levelsource.of_GetUpdateStyle()
MessageBox("Update Style",  &
  + "Update style is " + String(li_count))
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_InsertItem function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3804')}
```

Description

Adds a new item to the TreeView using a row from the data source.

Access

Public

Syntax

tvcontrol.instancename.**of_InsertItem** (*parent*, *datastore*, *row*, *tvitem*, *position*, *after*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
parent	Long specifying the handle of the parent TreeView item
datastore	N_ds containing the data for the new item. This can be either the DataStore maintained by n_cst_tvsrv_levelsource or another DataStore. If this is another DataStore, the associated DataWindow objects must be the same, and the function also adds the row to the DataStore maintained by n_cst_tvsrv_levelsource (passed by reference)
row	Long specifying the row containing the new item
tvitem	TreeViewItem containing the item to be added to the TreeView
position	String specifying the position under the current parent in which to insert the new item. Values are: • First • Last • Sort • After
after	Long containing the handle of the TreeView item after which the function adds the new item. The function uses this argument if you specify After for *position*

Return value

Long. Returns the handle of the new item if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_InsertItem function (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_InsertItem event:

```
...

If isvalid(inv_levelsource) then
        Return inv_levelsource.of_InsertItem  &
      (al_parent, ads_source, al_row, ltvi_new,  &
          as_position, al_handle)
End If
```

```
...
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_IsConfirmOnDelete function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3806')}
```

Description

Reports whether deletions are confirmed.

Access

Public

Syntax

tvcontrol.*instancename*.**of_IsConfirmOnDelete** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Boolean. Returns TRUE if deletions are confirmed and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_IsConfirmOnDelete function (n_cst_tvsrv_levelsource)

This example calls the of_IsConfirmOnDelete function:

```
IF tv_1.inv_levelsource.of_IsConfirmOnDelete() THEN

   MessageBox("TreeView", "Confirm enabled")
ELSE
   MessageBox("TreeView", "Confirm disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_IsRecursiveLevel function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3808')}
```

Description

Reports whether the specified level is recursive.

Access

Public

Syntax

tvcontrol.*instancename*.**of_IsRecursiveLevel** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level the function tests for recursive processing

Return value

Boolean. Returns TRUE if *level* is recursive and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_IsRecursiveLevel function (n_cst_tvsrv_levelsource)

This example calls the of_IsRecursiveLevel function:

```
IF tv_1.inv_levelsource.of_IsRecursiveLevel(2) THEN

   MessageBox("TreeView", "Is recursive")
ELSE
   MessageBox("TreeView", "Is not recursive")
END IF
```

Created with the Personal Edition of HelpNDoc: Free Web Help generator

of_ParseArgs function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3810')}
```

Description

Creates an array of retrieval arguments from a passed string.

Access

Protected

Syntax

tvcontrol.*instancename*.**of_ParseArgs** (*argument*, *level*, *arglevels*, *argcolumns*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
argument	String containing the retrieval argument
level	Integer specifying the TreeView level for which the arguments will be used
arglevels	Integer array into which the function places the TreeView levels used to create the retrieval argument (passed by reference)
argcolumns	String array into which the function places the columns used in the retrieval argument (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_ParseArgs function (n_cst_tvsrv_levelsource)

This example is from the of_GetArgs function:

```
...

of_ParseArgs(inv_attrib[li_Index].is_RetrieveArgs, &
   ai_Level, li_RetrieveArgLevel,  &
      ls_RetrieveArgColumn)
...
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

of_ParseCols function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3812')}
```

Description

Creates an array of columns from a passed string.

Access

Protected

Syntax

tvcontrol.*instancename*.**of_ParseCols** (*columns*, *operators*, *colarray*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
columns	String containing the column definition string
operators	String into which the function places the relational operators (passed by reference)
colarray	String array into which the function places the columns to filter (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_ParseCols function (n_cst_tvsrv_levelsource)

This example is from the of_Retrieve function:

```
...

Else
        of_ParseCols(inv_attrib[li_index].is_filtercols,  &
      ls_operators, ls_column)
...
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_Register function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')}

Registers a data source for the TreeView control. There are six syntaxes.

To	Use
Display data retrieved via a DataWindow object	Syntax 1
Display data retrieved via a SQL statement	Syntax 2
Display data from a DataWindow control	Syntax 3
Display data from a DataStore	Syntax 4
Display passed data	Syntax 5
Display data from a file	Syntax 6

Another version of of_Register There is also an undocumented version of of_Register that is for internal use.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

Syntax 1 To display data retrieved via a DataWindow object

Syntax 1 To display data retrieved via a DataWindow object

{button Examples,JI(`>Examples',`id_pfcoref_3815')}

Description

Establishes a TreeView level's data source by retrieving rows using the specified DataWindow object.

Access

Public

Syntax

tvcontrol.instancename.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *dwobject*, *trans*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the *dwobject* column that u_tvs uses for TreeView item labels

retrievespec	String containing the retrieval specification for *dwobject*
dwobject	String specifying the DataWindow object used to retrieve data
trans	N_tr Transaction object used to retrieve rows for *dwobject* If you do not specify this argument, *dwobject* must have been saved with the data
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** *Dwobject* had no key columns assigned
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function once for each TreeView level.

The *retrieveargs* argument must be in the format:

:scope.level.column

where:

- *Scope* specifies either level or parent:
  - **Level** An absolute level number
  - **Parent** A number relative to the current level
- *Level* specifies an absolute or relative level number, depending on what you specify for scope:

Scope specification	Level specification
Level	The value you specify indicates an absolute level number. For example, `:level.1.emp_name` indicates that the retrieval argument comes from the emp_name column of the item's level-1 ancestor
Parent	The value you specify indicates a level relative to the current level. For example, `:parent.2.emp_name` indicates that the retrieval argument comes from the emp_name column of the ancestor two levels above

- *Column* specifies the DataWindow object column name from which to obtain the values used in retrieval arguments

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

Syntax 1 To display data retrieved via a DataWindow object

This example calls the of_Register function:

```
this.of_SetLevelSource(TRUE)
```

```
this.inv_levelsource.of_Register(1, "dept_name",  &
  "", "d_deptlist", SQLCA, "")
this.inv_levelsource.of_SetPictureColumn(1, "1")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (1, "2")
this.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (2, "5")

this.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

Syntax 2 To display data retrieved via a SQL statement

Syntax 2 To display data retrieved via a SQL statement

{button Examples,JI(`>Examples',`id_pfcoref_3817')}

Description

Establishes a TreeView level's data source by retrieving rows from the database using the specified SQL statement.

Access

Public

Syntax

tvcontrol.instancename.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *trans*, *sql*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the column that u_tvs uses for TreeView item labels
retrievespec	String containing the retrieval arguments if required
trans	N_tr Transaction object used to retrieve rows for *sql*
sql	String specifying the SQL SELECT statement used to create the TreeView level's data source
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** A specified key column did not exist
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function before calling other functions that customize TreeView display.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

Syntax 2 To display data retrieved via a SQL statement

This example calls the of_Register function:

```
String  ls_sql


this.of_SetLevelSource(TRUE)
ls_sql = "Select * from department ORDER BY dept_id;"
this.inv_levelsource.of_Register(1, "dept_name",  &
   "", SQLCA, ls_sql, "")
this.inv_levelsource.of_SetPictureColumn(1, "1")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (1, "2")
this.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
  (2, "5")

this.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

Syntax 3 To display data from a DataWindow control

Syntax 3 To display data from a DataWindow control

```
{button Examples,JI(`>Examples',`id_pfcoref_3819')}
```

Description

Establishes a TreeView level's data source using rows contained in the passed DataWindow control.

Access

Public

Syntax

tvcontrol.instancename.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *dwcontrol*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the column that u_tvs uses for TreeView item labels
retrievespec	String containing the retrieval arguments if required
dwcontrol	DataWindow control containing data to use in the TreeView level
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success

- **-1** Argument validation error
- **-2** The DataWindow object associated with *dwcontrol* had no key columns assigned
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function before calling other functions that customize TreeView display.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

Syntax 3 To display data from a DataWindow control

This example calls the of_Register function:

```
this.of_SetLevelSource(TRUE)

this.inv_levelsource.of_Register(1, "dept_name",  &
   "", dw_1, "")
this.inv_levelsource.of_SetPictureColumn(1, "1")
this.inv_levelsource.of_SetSelectedPictureColumn  &
  (1, "2")
this.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
  (2, "5")

this.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: Write eBooks for the Kindle

Syntax 4 To display data from a DataStore

Syntax 4 To display data from a DataStore

```
{button Examples,JI(`>Examples',`id_pfcoref_3821')}
```

Description

Establishes a TreeView level's data source using rows in the passed DataStore.

Access

Public

Syntax

tvcontrol.*instancename*.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *datastore*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the column that u_tvs uses for TreeView item labels

retrievespec	String containing the retrieval arguments if required
datastore	DataStore containing data to use in the TreeView level
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** The DataWindow object associated with *datastore* had no key columns assigned
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function before calling other functions that customize TreeView display.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

Syntax 4 To display data from a DataStore

This example calls the of_Register function:

```
tv_1.of_SetLevelSource(TRUE)

tv_1.inv_levelsource.of_Register(1, "dept_name",  &
  "", ids_datastore, "")
tv_1.inv_levelsource.of_SetPictureColumn(1, "1")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
   (1, "2")
tv_1.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
tv_1.inv_levelsource.of_SetPictureColumn(2, "4")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
  (2, "5")

tv_1.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

Syntax 5 To display passed data

Syntax 5 To display passed data

```
{button Examples,JI(`>Examples',`id_pfcoref_3823')}
```

Description

Establishes a TreeView level's data source using passed data.

Access

Public

Syntax

tvcontrol.instancename.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *dwobject*, *data*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the column that u_tvs uses for TreeView item labels
retrievespec	String containing the retrieval arguments if required
dwobject	String specifying the DataWindow object whose columns correspond to *data*
data	PowerObject array containing the data to display in the TreeView level
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** *Dwobject* had no key columns assigned
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function before calling other functions that customize TreeView display.

Elements must match Errors will occur if the elements of the *data* structure do not exactly match the columns of *dwobject*.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

Syntax 5 To display passed data

This example calls the of_Register function:

```
tv_1.of_SetLevelSource(TRUE)

tv_1.inv_levelsource.of_Register(1, "dept_name",  &
  "", "d_deptlist", istr_dept, "")
tv_1.inv_levelsource.of_SetPictureColumn(1, "1")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
  (1, "2")
tv_1.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
tv_1.inv_levelsource.of_SetPictureColumn(2, "4")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
  (2, "5")

tv_1.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step

Guide with HelpNDoc

Syntax 6 To display data from a file

Syntax 6 To display data from a file

`{button Examples,JI(`>Examples',`id_pfcoref_3825')}`

Description

Establishes a TreeView level's data source using data from a file.

Access

Public

Syntax

tvcontrol.*instancename*.**of_Register** (*level*, *labelcolumn*, *retrievespec*, *dwobject*, *file*, *filterspec*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
labelcolumn	String specifying the column that u_tvs uses for TreeView item labels
retrievespec	String containing the retrieval arguments if required
dwobject	String specifying the DataWindow object whose columns correspond to the data in *file*
file	String specifying the file to be used as the TreeView level's data source
filterspec	String containing the filter specification if required

Return value

Integer. Returns values as follows:

- **1** Success
- **-1** Argument validation error
- **-2** *Dwobject* had no key columns assigned
- **-3** A previous level was marked as recursive
- **-4** Column level datatype was not in the data source
- **-5** SetTransObject failed for the data source
- **-7** Cache registration error

Usage

Call this function before calling other functions that customize TreeView display.

Elements must match Errors will occur if the elements of the lines in *filename* do not exactly match the columns of *dwobject*.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

Syntax 6 To display data from a file

This example calls the of_Register function:

```
tv_1.of_SetLevelSource(TRUE)

ls_file = "c:\pb6i32\pfc\deptlist.txt"
tv_1.inv_levelsource.of_Register(1, "dept_name",  &
  "", "d_deptlist", ls_file, "")
tv_1.inv_levelsource.of_SetPictureColumn(1, "1")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
  (1, "2")
tv_1.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
tv_1.inv_levelsource.of_SetPictureColumn(2, "4")
tv_1.inv_levelsource.of_SetSelectedPictureColumn  &
  (2, "5")

tv_1.event pfc_populate(0)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_RegisterDataSource function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3827')}
```

Description

Registers the TreeView data source with n_cst_dwcache (the PFC caching service).

Access

Protected

Syntax

tvcontrol.instancename.**of_RegisterDataSource** (*level*, *method*, *dwobject*, *trans*, *sql*, *data*, *dwcontrol*, *datastore*, *file*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level associated with this data source
method	String specifying the data source population method. Values are: Retrieve DataObjectData PowerObject DataWindowControl DataStoreControl ImportFile SQL
dwobject	String specifying the DataWindow object used by the data source
trans	N_tr specifying the Transaction object used by the data source
sql	String specifying the SQL statement used as the data source
data	PowerObject array containing data used as the data source
dwcontrol	DataWindow control whose associated DataWindow object and data is used as the data source
datastore	DataStore whose associated DataWindow object and data is used as the data source
file	String specifying the file used as the data source

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_RegisterDataSource function (n_cst_tvsrv_levelsource)

This example is from the of_Register function:

```
...

li_rc = of_RegisterDataSource(ai_level,  &
   as_method, as_DWobjectname, atr_obj, &
      as_sql, apo_data, adw_control, ads_control, &
         as_importfile)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_RemoveChildren function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3829')}
```

Description

Removes all TreeView items beneath the specified item. This function also removes rows from the associated data source.

Access

Public

Syntax

tvcontrol.*instancename*.**of_RemoveChildren** (*handle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
handle	Long specifying the TreeView item whose children are removed

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create iPhone web-based documentation

of_RemoveChildren function (n_cst_tvsrv_levelsource)

This example is from the of_DeleteItem function:

```
...
```

```
If of_RemoveChildren(al_Handle) = -1 Then Return -1
...
```

Created with the Personal Edition of HelpNDoc: Easily create Qt Help files

of_Reset function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3831')}
```

Description

Clears all data from the data source.

Access

Public

Syntax

tvcontrol.*instancename*.**of_Reset** ({ *level* })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level (optional)	Integer specifying the TreeView level to be cleared. Specify 0 to reset all levels (the default is 0)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If *level* is a recursive level, the function resets all levels using that data source.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_Reset function (n_cst_tvsrv_levelsource)

This example is from the of_ResetTree function:

```
...

If this.of_Reset() <> 1 Then Return -1
...
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

of_ResetTree function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3833')}
```

Description

Clears data from the TreeView and the associated data source.

Access

Public

Syntax

tvcontrol.instancename.**of_ResetTree** ( )

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_ResetTree function (n_cst_tvsrv_levelsource)

This example calls the of_ResetTree function:

```
tv_1.inv_levelsource.of_ResetTree()
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Professional Documentation with HelpNDoc's Clean UI

of_ResetUpdate function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3835')}

Description

Resets the update flags in the DataStore that contains TreeView data.

Access

Public

Syntax

tvcontrol.instancename.**of_ResetUpdate** ({ *level* })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level (optional)	Integer specifying the TreeView level whose data source's update flags are to be reset. Specify 0 to reset flags for all levels (the default is 0)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

If *level* is a recursive level, the function resets update flags for all levels using that data source.

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_ResetUpdate function (n_cst_tvsrv_levelsource)

This example calls the of_ResetUpdate function:

```
tv_1.inv_levelsource.of_ResetUpdate()
```

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_Retrieve function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3837')}

Description

Retrieves TreeView data from rows in the DataStore.

Access

Public

Syntax

tvcontrol.instancename.**of_Retrieve** (*level*, *arguments*, *data*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose data source is retrieved
arguments	Twenty-element Any array containing retrieval arguments
data	N_ds into which the function retrieves data (passed by reference)

Return value

Integer. Returns the number of items retrieved if the function succeeds and -1 if an error occurs.

Usage

Specify retrieval arguments by extending the u_tvs pfc_Retrieve event.

Created with the Personal Edition of HelpNDoc: Effortlessly bring your documentation online with HelpNDoc

of_Retrieve function (n_cst_tvsrv_levelsource)

This example is from the u_tvs of_Retrieve event:

```
...

If isvalid(inv_levelsource) then
        ll_rows = inv_levelsource.of_Retrieve  &
      (li_level, la_args, ads_data)
End If
...
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with

HelpNDoc's WinHelp HLP to CHM conversion

of_SetCache function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3839')}
```

Description

Enables or disables n_cst_dwcache (the PFC caching service).

Access

Protected

Syntax

tvcontrol.*instancename*.**of_SetCache** (*boolean*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
boolean	Boolean indicating whether to enable (TRUE) or disable (FALSE) n_cst_dwcache

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetCache function (n_cst_tvsrv_levelsource)

This example is from the Constructor event:

```
of_SetCache(True)


...
```

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetConfirmOnDelete function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3841')}
```

Description

Specifies whether n_cst_tvsrv_levelsource displays a confirmation dialog box when users delete items.

Access

Public

Syntax

tvcontrol.instancename.**of_SetConfirmOnDelete** (*boolean*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
boolean	Boolean specifying whether to display (TRUE) or not display (FALSE) a deletion confirmation dialog box

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetConfirmOnDelete function (n_cst_tvsrv_levelsource)

This example calls the of_SetConfirmOnDelete function:

```
...

this.inv_levelsource.of_SetConfirmOnDelete(TRUE)
this.event pfc_populateitem(0)
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetCustomUpdate function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3843')}
```

Description

Specifies a custom update identifier.

Access

Public

Syntax

tvcontrol.instancename.**of_SetCustomUpdate** (*id*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
id	Integer from 1 to 9 specifying the custom update identifier

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function when you need to establish more than one custom update sequence. Enable custom update by calling the of_SetUpdateStyle function.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SetCustomUpdate function (n_cst_tvsrv_levelsource)

This example calls the of_SetCustomUpdate function:

```
tv_1.inv_levelsource.of_SetCustomUpdate(9)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetDeleteStyle function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3845')}

Description

Specifies whether deleted child rows are deleted or discarded.

Access

Public

Syntax

tvcontrol.instancename.**of_SetDeleteStyle** (*level*, *style*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose deletion style is specified
style	Integer or n_cst_tvsrv_levelsource constant specifying how to handle deleted children: • **DISCARD_ROWS or 0** Discard child rows (default) • **DELETE_ROWS or 1** Delete child rows

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_SetDeleteStyle function (n_cst_tvsrv_levelsource)

This example calls the of_SetDeleteStyle function:

```
...

this.inv_levelsource.of_SetDeleteStyle  &
   (this.inv_levelsource.DELETE_ROWS)
this.event pfc_populateitem(0)
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetItemAttributes function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3847')}
```

Description

Sets TreeView item default properties using data from the data source.

Access

Public

Syntax

tvcontrol.instancename.**of_SetItemAttributes** (*datastore*, *row*, *item*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
datastore	N_ds containing the DataStore used to create TreeView item properties
row	Long specifying the row in *datastore* used to create TreeView item properties
item	TreeViewItem whose properties are to be set (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

of_SetItemAttributes function (n_cst_tvsrv_levelsource)

This example is from the u_tvs pfc_SetItemAttributes event:

```
If isvalid(inv_levelsource) then

        inv_levelsource.of_SetItemAttributes  &
      (ads_obj, al_row, atvi_item)
End If
...
```

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_SetOverlayPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3849')}
```

Description

Specifies the name or number of the DataWindow object column that references the overlay picture.

Access

Public

Syntax

tvcontrol.instancename.**of_SetOverlayPictureColumn** (*level*, *column*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose overlay picture is specified
column	String specifying one of the following: • The DataWindow object column that u_tvs uses for overlay pictures • A number, which causes u_tvs to use the TreeView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_SetOverlayPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_SetOverlayPictureColumn function:

```
tv_1.inv_levelsource.of_SetOverlayPictureColumn  &

   (1, "4")
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_SetPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3851')}
```

Description

Specifies the default picture.

Access

Public

Syntax

tvcontrol.instancename.**of_SetPictureColumn** (*level*, *column*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose picture is specified
column	String specifying one of the following: • The DataWindow object column that u_tvs uses for pictures. This column can contain either a filename or a number, which causes u_tvs to use the TreeView's picture index • A number, which causes u_tvs to use the TreeView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Review with HelpNDoc's Project Analyzer

of_SetPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_SetPictureColumn function:

```
...

this.inv_levelsource.of_Register(2, "emp_lname",  &
  ls_keys, "d_empbydept", SQLCA, ":parent.1.dept_id")
this.inv_levelsource.of_SetPictureColumn(2, "4")
...
```

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_SetRecursive function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3853')}
```

Description

Specifies whether a specified level is recursive.

Access

Public

Syntax

tvcontrol.*instancename*.**of_SetRecursive** (*level*, *boolean*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level
boolean	Boolean specifying whether *level* is recursive (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function after calling of_Register. A recursive level is always the lowest level specified.

A recursive level works only if a table has a recursive relationship. In the employee table, for example, there might be a recursive relationship between managers and employees, with each employee row containing a column that points to its manager's employee ID.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetRecursive function (n_cst_tvsrv_levelsource)

This example calls the of_SetRecursive function:

```
...

this.inv_levelsource.of_SetRecursive(3, TRUE)
...
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_SetSelectedPictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3855')}
```

Description

Specifies the name of the DataWindow object column that references the selected picture.

Access

Public

Syntax

tvcontrol.*instancename*.**of_SetSelectedPictureColumn** (*level*, *column*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose selected picture is specified
column	String specifying one of the following: • The DataWindow object column that u_tvs uses for selected pictures • A number, which causes u_tvs to use the TreeView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_SetSelectedPictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_SetSelectedPictureColumn function:

```
...

this.inv_levelsource.of_Register(2, "emp_lname",  &
  ":parent.1.dept_id", "d_empbydept", SQLCA, "")
this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (2, "5")
```

```
...
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetStatePictureColumn function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3857')}
```

Description

Specifies the name of the DataWindow object column that references the state picture.

Access

Public

Syntax

tvcontrol.*instancename*.**of_SetStatePictureColumn** (*level*, *column*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose state picture is specified
column	String specifying one of the following: • The DataWindow object column that u_tvs uses for state pictures. This column can contain either a filename or a number, which causes u_tvs to use the TreeView's picture index • A number, which causes u_tvs to use the TreeView's picture index

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call of_Register before calling this function.

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

of_SetStatePictureColumn function (n_cst_tvsrv_levelsource)

This example calls the of_SetStatePictureColumn function:

```
...

this.inv_levelsource.of_Register(2, "emp_lname",  &
  ls_keys, "d_empbydept", SQLCA, ":parent.1.dept_id")
this.inv_levelsource.of_SetPictureColumn(2, "4")
this.inv_levelsource.of_SetSelectedPictureColumn  &
   (2, "5")
this.inv_levelsource.of_SetStatePictureColumn(2, "11")
...
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_SetUndo function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3859')}
```

Description

Specifies whether n_cst_tvsrv_levelsource enables undo processing.

Access

Public

Syntax

tvcontrol.instancename.**of_SetUndo** (*boolean*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
boolean	Boolean specifying whether to enable (TRUE) or disable (FALSE) undo capabilities

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_SetUndo function (n_cst_tvsrv_levelsource)

This example calls the of_SetUndo function:

```
...

this.inv_levelsource.of_SetUndo(FALSE)
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetUpdateStyle function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3861')}
```

Description

Specifies the update style.

Access

Public

Syntax

tvcontrol.instancename.**of_SetUpdateStyle** (*updatestyle*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)

updatestyle	Integer or n_cst_tvsrv_levelsource constant specifying the update style: • **1 or TOPDOWN** • **2 or BOTTOMUP** • **3 or TOPDOWN_BOTTOMUP** • **4 or BOTTOMUP_TOPDOWN** • **101 or CUSTOM**

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The update style controls the order in which the levelsource service updates DataStores associated with TreeView levels.

If you specify a custom update style, you must also create and code an of_UpdateCustom function in the n_cst_tvsrv_levelsource extension-level object. This function then updates the DataStores in the desired order.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetUpdateStyle function (n_cst_tvsrv_levelsource)

This example calls the of_SetUpdateStyle function:

```
tv_1.inv_levelsource.of_SetUpdateStyle  &

   (tv_1.inv_levelsource.TOPDOWN)
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

of_UnRegister function (n_cst_tvsrv_levelsource)

```
{button Object,JI(`>main',`ccjdheab')} {button
Examples,JI(`>Examples',`id_pfcoref_3863')}
```

Description

Removes a data source for the specified level.

Access

Public

Syntax

tvcontrol.instancename.**of_UnRegister** (*level*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level to unregister

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_UnRegister function (n_cst_tvsrv_levelsource)

This example calls the of_UnRegister function:

```
...

tv_1.inv_levelsource.of_UnRegister()
...
```

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_Update function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')}

Updates data associated with a TreeView control. There are two syntaxes:

To	Use
Update a specified TreeView level	Syntax 1
Update all TreeView levels	Syntax 2

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

Syntax 1 To update a specified TreeView level

Syntax 1 To update a specified TreeView level

{button Examples,JI(`>Examples',`id_pfcoref_3866')}

Description

Saves all rows in the DataStore associated with the TreeView level

Access

Public

Syntax

tvcontrol.instancename.**of_Update** (*level*, *accept*, *resetflag*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
level	Integer specifying the TreeView level whose DataStore is to be updated
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

Syntax 1 To update a specified TreeView level

This example calls the of_Update function:

```
tv_1.inv_levelsource.of_Update(2, TRUE, TRUE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

Syntax 2 To update all TreeView levels

Syntax 2 To update all TreeView levels

{button Examples,JI(`>Examples',`id_pfcoref_3868')}

Description

Saves all rows in all DataStores associated with the TreeView.

Access

Public

Syntax

tvcontrol.*instancename*.**of_Update** (*accept*, *resetflag*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
accept	Boolean indicating whether the Update function performs an AcceptText before saving rows to the database
resetflag	Boolean indicating whether the Update function resets the update flags

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Transform Your Documentation Workflow with HelpNDoc's Intuitive UI

Syntax 2 To update all TreeView levels

This example calls the of_Update function:

```
tv_1.inv_levelsource.of_Update(TRUE, TRUE)
```

Created with the Personal Edition of HelpNDoc: Free EPub producer

of_UpdateCustom function (n_cst_tvsrv_levelsource)

{button Object,JI(`>main',`ccjdheab')} {button Examples,JI(`>Examples',`id_pfcoref_3870')}

Description

Empty function that you extend to implement custom update processing.

Access

Public

Syntax

tvcontrol.instancename.**of_UpdateCustom** (*id*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_levelsource (the u_tvs default is inv_levelsource)
id	Integer identifying the custom update, as specified in a previously called of_SetCustomUpdate function

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_Update function calls this function when you set the update style to Custom via the of_SetUpdateStyle function.

You must implement an of_UpdateCustom function in the n_cst_tvsrv_levelsource extension level object. This function checks the passed argument (if there are multiple custom update possibilities) and updates DataStores in the appropriate order.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_UpdateCustom function (n_cst_tvsrv_levelsource)

This example is from the of_Update function:

```
...

CASE CUSTOM
        li_rc = of_UpdateCustom(ii_customupdate)
...
```

Created with the Personal Edition of HelpNDoc: Quickly and Easily Convert Your Word Document to an ePub or Kindle eBook

n_cst_tvsrv_print

```
{button Ancestor,JI(`>main',`ccjdebjj')} {button See also,PI(`',`id_pfcoref_3872')}
{button Functions,JI(`>list_win',`id_pfcoref_3873')}
```

Description

TreeView print service.

Ancestry

Library

PFCAPSRV.PBL

PFEAPSRV.PBL

Usage

To use this service:

1 Enable the service by calling the u_tvs of_SetPrint function:

```
tv_1.of_SetPrint(TRUE)
```

2 Call the of_PrintTree function to print TreeView data:

```
String  ls_levelpicts[10]

String  ls_levelselpicts[10]

ls_levelpicts[1] = "dept.bmp"
ls_levelpicts[2] = "emp.bmp"
ls_levelselpicts[1] = "deptsel.bmp"
ls_levelselpicts[2] = "empsel.bmp"
tv_1.inv_print.of_PrintTree(0, TRUE, &
   ls_levelpicts, ls_levelselpicts)
```

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

n_cst_tvsrv_print

n_cst_tvsrv_levelsource

Created with the Personal Edition of HelpNDoc: Easily share your documentation with the world through a beautiful website

n_cst_tvsrv_print

of_BuildTree function

of_PrintTree function

N_cst_tvsrv_print includes precoded functions:

of_BuildTree

of_PrintTree

Created with the Personal Edition of HelpNDoc: Full-featured EPub generator

of_BuildTree function (n_cst_tvsrv_print)

{button Object,JI(`>main',`ccjcjjgg')} {button Examples,JI(`>Examples',`id_pfcoref_3875')}

Description

Builds the data to be printed.

Access

Public

Syntax

tvcontrol.instancename.**of_BuildTree** (*handle*, *pictures*, *levelpicts*)

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_print (the u_tvs default is inv_print)
handle	Long containing the handle of the TreeView item from which to start building the data to print
pictures	String specifying the filenames for all pictures and selected pictures
levelpicts	String specifying the filenames for pictures and selected pictures to display when using different pictures for each level

Return value

String. Returns a string used to populate a temporary DataStore, which is then printed.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_BuildTree function (n_cst_tvsrv_print)

This example is from the of_PrintTree function:

```
...

lds_Print = Create n_ds
lds_Print.DataObject = "d_printtree"
If lds_Print.ImportString(of_buildtree(al_Handle,  &
   ls_Picts, ls_LevelPicts)) <= 0 Then Return -1
li_RC = lds_Print.Print(ab_CancelDialog)
```

. . .

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_PrintTree function (n_cst_tvsrv_print)

{button Object,JI(`>main',`ccjcjjgg')}

Prints data in a TreeView control. There are two syntaxes:

To	Use
Print a TreeView using the same picture and selected picture for all levels	Syntax 1
Print a TreeView specifying pictures and selected pictures for each level	Syntax 2

Another version of of_PrintTree There is also an undocumented version of of_PrintTree that is for internal use.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

Syntax 1 Print a TreeView using the same pictures for each level

Syntax 1 Print a TreeView using the same pictures for each level

{button Examples,JI(`>Examples',`id_pfcoref_3878')}

Description

Prints TreeView data using the same picture and selected picture for each level.

Access

Public

Syntax

tvcontrol.*instancename*.**of_PrintTree** ({ *handle* {, *canceldialog* {, *pictname*, *selectedpictname* } } })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_print (the u_tvs default is inv_print)
handle (optional)	Long specifying the handle of the TreeView item from which to begin printing. The default is 0, which starts at the top of the TreeView hierarchy
canceldialog (optional)	Boolean specifying whether to display a Cancel dialog. The default is FALSE
pictname (optional)	String specifying the filename to display as the picture. The default is folder.bmp
selectedpictname (optional)	String specifying the filename to display as the selected picture. The default is foldopen.bmp

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pictures specified (including the default pictures, folder.bmp and foldopen.bmp) must be in a directory that is accessible at execution time.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

Syntax 1 Print a TreeView using the same pictures for each level

This example calls the of_PrintTree function:

```
tv_1.inv_print.of_PrintTree  &

   (0, TRUE, "dept.bmp", "emp.bmp")
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

Syntax 2 Print a TreeView specifying pictures for each level

Syntax 2 Print a TreeView specifying pictures for each level

`{button Examples,JI(`>Examples',`id_pfcoref_3880')}`

Description

Prints TreeView data using the specified pictures and selected pictures for each level.

Access

Public

Syntax

tvcontrol.instancename.**of_PrintTree** ({ *handle* {, *canceldialog* {, *levelpicts*, *levelselectedpicts* } } } })

Argument	Description
tvcontrol	Instance name of the u_tvs-based TreeView control
instancename	Instance name of n_cst_tvsrv_print (the u_tvs default is inv_print)
handle (optional)	Long specifying the handle of the TreeView item from which to begin printing. The default is 0, which starts at the top of the TreeView hierarchy
canceldialog (optional)	Boolean specifying whether to display a Cancel dialog. The default is FALSE
levelpicts (optional)	Ten-element string array specifying pictures for items in up to ten levels
levelselectedpicts (optional)	Ten-element string array specifying selected pictures for items in up to ten levels

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The pictures specified (including the default pictures, folder.bmp and foldopen.bmp) must be in a directory that is accessible at execution time.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

Syntax 2 Print a TreeView specifying pictures for each level

This example calls the of_PrintTree function:

```
String  ls_levelpicts[10]

String  ls_levelselpicts[10]

ls_levelpicts[1] = "dept.bmp"
ls_levelpicts[2] = "emp.bmp"
ls_levelselpicts[1] = "deptsel.bmp"
ls_levelselpicts[2] = "empsel.bmp"
tv_1.inv_print.of_PrintTree(0, TRUE, &
   ls_levelpicts, ls_levelselpicts)
```

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

n_cst_winsrv

```
{button Ancestor,JI(`>main',`cbbbdaij')} {button See also,PI(`',`id_pfcoref_3883')}
{button Functions,JI(`>list_win',`id_pfcoref_3885')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3884')} {button
Descendants,JI(`>list_win',`id_pfcoref_3882')}
```

Description

N_cst_winsrv is the base window services object and serves as the ancestor object for all Window services. In addition to being the ancestor for all other Window services, w_master instantiates this user object as inv_base.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Usage

Use the functions in this user object to obtain basic information about a DataWindow object and its contents.

To use this object:

1 Enable the service using the w_master of_SetBase function:

```
this.of_SetBase(TRUE)
```

2 Call base Window service functions as needed.

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

n_cst_winsrv

n_cst_winsrv_preference

n_cst_winsrv_sheetmanager

n_cst_winsrv_statusbar

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

n_cst_winsrv

n_cst_resize

w_master

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

n_cst_winsrv

{button Functions,JI(`>list_win',`id_pfcoref_3885')}

N_cst_winsrv includes one instance variable:

Instance variable	Description	Data type	Access	Usage
iw_requestor	Window that owns the n_cst_winsrv instance	w_master	Protected	Use to access and control the associated window

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

n_cst_winsrv

{button Instance variables,JI(`>list_win',`id_pfcoref_3884')}

of_Center function

of_SetRequestor function

N_cst_winsrv includes precoded object functions:

of_Center

of_SetRequestor

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_Center function (n_cst_winsrv)

{button Object,JI(`>main',`cdechfgc')} {button Examples,JI(`>Examples',`id_pfcoref_3887')}

Description

Centers the window relative to the dimensions of the current display resolution.

Access

Public

Syntax

instancename.**of_Center** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv (the w_master default is inv_base)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

of_Center function (n_cst_winsrv)

This example from a window Open event calls the of_Center function.

```
Integer  li_return


this.of_SetBase(TRUE)
li_return = this.inv_base.of_Center()
...
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_SetRequestor function (n_cst_winsrv)

```
{button Object,JI(`>main',`cdechfgc')} {button
Examples,JI(`>Examples',`id_pfcoref_3889')}
```

Description

Associates a window with n_cst_winsrv.

Access

Public

Syntax

instancename.**of_SetRequestor** (*window*)

Argument	Description
instancename	Instance name of n_cst_winsrv (the w_master default is inv_base)
window	W_master window variable containing the window to be associated with n_cst_winsrv

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Streamline Your CHM Help File Creation with HelpNDoc

of_SetRequestor function (n_cst_winsrv)

This example is from the w_master of_SetBase function:

```
IF ab_Switch THEN

        IF Not IsValid(inv_base) THEN
               inv_base = Create n_cst_winsrv
               inv_base.of_SetRequestor(this)
        END IF
ELSE
        IF IsValid(inv_base) THEN
               Destroy inv_base
        END IF
END IF
```

Created with the Personal Edition of HelpNDoc: HelpNDoc's Project Analyzer: Incredible documentation assistant

n_cst_winsrv_preference

```
{button Ancestor,JI(`>main',`cdechfgc')} {button See also,PI(`',`id_pfcoref_3891')}
{button Functions,JI(`>list_win',`id_pfcoref_3893')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3892')}
```

Description

Window preference service. Using this service, you can save and restore window state information using either an INI file or the Windows registry. W_master instantiates this user object as inv_preference. This service saves the following properties:

ToolBarVisible

ToolBarAlignment

ToolBarItemOrder

Toolbar size (ToolbarHeight and ToolbarWidth)

Toolbar position (ToolbarX and ToolbarY)

Window size (height and width)

Window state

Window position (X and Y)

Menu item attributes

The service provides functions allowing you to control which properties are restored.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Object relationships

n_cst_conversion

n_cst_inifile

n_cst_string

n_cst_menu

Usage To use the preference service:

1. Create an instance of n_cst_winsrv_preference by calling the w_master of_SetPreference function.
2. Specify the items to be restored by calling one or more of the following functions:
   - The of_SetMenuItems function controls whether the service restores menu item properties
   - The of_SetWindow function controls whether the service restores window properties
   - The of_SetToolbars function controls whether the service restores toolbars
   - The of_SetToolbarTitles function controls whether the service restores toolbar titles
   - The of_SetToolbarItemOrder function controls whether the service restores the order of toolbar items
   - The of_SetToolbarItemSpace function controls whether the service restores the ToolbarItemOrder property
   - The of_SetToolbarItemVisible function controls whether the service restores the ToolbarItemVisible property
3. Call the of_Restore function to reapply previous settings.
4. Before closing the window, call the of_Save function to save window settings in the registry or an INI file.

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring

Tool

n_cst_winsrv_preference

n_cst_winsrv

n_cst_resize

n_cst_winsrv_sheetmanager

n_cst_winsrv_statusbar

w_master

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

n_cst_winsrv_preference

{button Functions,JI(`>list_win',`id_pfcoref_3893')}

N_cst_winsrv_preference includes instance variables:

Instance variable	Description	Data type	Access	Usage
ib_menuitems	Controls whether the service restores menu item properties	Boolean	Protected	Access through of_GetMenuItems and of_SetMenuItems
ib_toolbaritemorder	Controls whether the service restores toolbar item order	Boolean	Protected	Access through of_GetToolbarItemOrder and of_SetToolbarItemOrder
ib_toolbaritemspace	Controls whether the service restores the ToolbarItemSpace property	Boolean	Protected	Access through of_GetToolbarItemSpace and of_SetToolbarItemSpace
ib_toolbaritemvisible	Controls whether the service restores the ToolbarItemVisible property	Boolean	Protected	Access through of_GetToolbarItemVisible and of_SetToolbarItemVisible
ib_toolbars	Controls whether the service restores toolbars	Boolean	Protected	Access through of_GetToolbars and of_SetToolbars
ib_toolbartitles	Controls whether the service restores toolbar titles	Boolean	Protected	Access through of_GetToolbarTitles and of_SetToolbarTitles
ib_window	Controls whether the service restores window properties	Boolean	Protected	Access through of_GetWindow and of_SetWindow
ii_normalstate_height	Stores the window's height in normal display	Integer	Protected	Internal
ii_normalstate_width	Stores the window's width in normal display	Integer	Protected	Internal
ii_normalstate_x	Stores the window's *x* position in normal display	Integer	Protected	Internal
ii_normalstate_y	Stores the window's *y* position in normal display	Integer	Protected	Internal

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Help Documentation with a Help Authoring Tool

n_cst_winsrv_preference

{button Instance variables,JI(`>list_win',`id_pfcoref_3892')}

of_GetMenuItems function

of_GetToolbarItemOrder function

of_GetToolbarItemSpace function

of_GetToolbarItemVisible function

of_GetToolbars function

of_GetToolbarTitles function

of_GetWindow function

of_Restore function

of_RestoreMenu function

of_RestorePositiveNumber function

of_Save function

of_SaveMenu function

of_SetMenuItems function

of_SetPosSize function

of_SetToolbarItemOrder function

of_SetToolbarItemSpace function

of_SetToolbarItemVisible function

of_SetToolbars function

of_SetToolbarTitles function

of_SetWindow function

N_cst_winsrv_preference includes precoded object functions:

of_GetMenuItems	of_Save
of_GetToolbarItemOrder	of_SaveMenu
of_GetToolbarItemSpace	of_SetMenuItems
of_GetToolbarItemVisible	of_SetPosSize
of_GetToolbars	of_SetToolbarItemOrder
of_GetToolbarTitles	of_SetToolbarItemSpace
of_GetWindow	of_SetToolbarItemVisible
of_Restore	of_SetToolbars
of_RestoreMenu	of_SetToolbarTitles
of_RestorePositiveNumber	of_SetWindow

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_GetMenuItems function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3895')}

Description

Reports whether the service restores menu items.

Access

Public

Syntax

instancename.**of_GetMenuItems** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if menu items are restored and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Elevate Your CHM Help Files with HelpNDoc's Advanced Customization Options

of_GetMenuItems function (n_cst_winsrv_preference)

This example calls the of_GetMenuItems function:

```
IF parent.inv_preference.of_GetMenuItems() THEN

        MessageBox("Preferences", &
               "Menu item restore is enabled")
ELSE
        MessageBox("Preferences", &
               "Menu item restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetToolbarItemOrder function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3897')}
```

Description

Reports whether the service restores toolbar item order.

Access

Public

Syntax

instancename.**of_GetToolbarItemOrder** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if toolbar item order is restored and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Easy EBook and documentation generator

of_GetToolbarItemOrder function (n_cst_winsrv_preference)

This example calls the of_GetToolbarItemOrder function:

```
IF parent.inv_preference.of_GetToolbarItemOrder() &

        THEN
               MessageBox("Preferences", &
                      "Toolbar item order restore is enabled")
ELSE
        MessageBox("Preferences", &
               "Toolbar item order restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_GetToolbarItemSpace function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3899')}
```

Description

Reports whether the service restores the ToolbarItemSpace property.

Access

Public

Syntax

instancename.**of_GetToolbarItemSpace** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if the ToolbarItemSpace property is restored and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_GetToolbarItemSpace function (n_cst_winsrv_preference)

This example calls the of_GetToolbarItemSpace function:

```
IF parent.inv_preference.of_GetToolbarItemSpace() &

        THEN
               MessageBox("Preferences", &
                      "ToolbarItemSpace restore is enabled")
ELSE
        MessageBox("Preferences", &
               "ToolbarItemSpace restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetToolbarItemVisible function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3901')}
```

Description

Reports whether the service restores the ToolbarItemVisible property.

Access

Public

Syntax

instancename.**of_GetToolbarItemVisible** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if the ToolbarItemVisible property is restored and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Effortlessly Create High-Quality Documentation with a Help Authoring Tool

of_GetToolbarItemVisible function (n_cst_winsrv_preference)

This example calls the of_GetToolbarItemVisible function:

```
IF parent.inv_preference.of_GetToolbarItemVisible() &

        THEN
               MessageBox("Preferences", &
                      "ToolbarItemVisible restore is enabled")
ELSE
        MessageBox("Preferences", &
               "ToolbarItemVisible restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_GetToolbars function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3903')}
```

Description

Reports whether the service restores toolbars.

Access

Public

Syntax

instancename.**of_GetToolbars** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is

inv_preference)

Return value

Boolean. Returns TRUE if toolbars are restored and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI

of_GetToolbars function (n_cst_winsrv_preference)

This example calls the of_GetToolbars function:

```
IF parent.inv_preference.of_GetToolbars() THEN

        MessageBox("Preferences", &
               "Toolbar restore is enabled")
ELSE
        MessageBox("Preferences", &
               "Toolbar restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetToolbarTitles function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3905')}
```

Description

Reports whether the service restores toolbar titles.

Access

Public

Syntax

instancename.**of_GetToolbarTitles** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if toolbar titles are restored and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_GetToolbarTitles function (n_cst_winsrv_preference)

This example calls the of_GetToolbarTitles function:

```
IF parent.inv_preference.of_GetToolbarTitles() THEN
```

```
        MessageBox("Preferences", &
               "Toolbar titles restore is enabled")
ELSE
        MessageBox("Preferences", &
               "Toolbar titles restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Make Help Documentation a Breeze with a Help Authoring Tool

of_GetWindow function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3907')}

Description

Reports whether the service restores window properties.

Access

Public

Syntax

instancename.**of_GetWindow** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Boolean. Returns TRUE if window properties are restored and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_GetWindow function (n_cst_winsrv_preference)

This example calls the of_GetWindow function:

```
IF parent.inv_preference.of_GetWindow() THEN

        MessageBox("Preferences", &
               "Window property restore is enabled")
ELSE
        MessageBox("Preferences", &
               "Window property restore is disabled")
END IF
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_Restore function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')}

Restores window, toolbar, and menu settings from the registry or an INI file. There are two syntaxes:

To	Use
Restore settings from the registry	Syntax 1
Restore settings from an INI file	Syntax 2

Other versions of of_Restore There are also two undocumented versions of of_Restore, which are for internal use.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

Syntax 1 To restore settings from the registry

Syntax 1 To restore settings from the registry

{button Examples,JI(`>Examples',`id_pfcoref_3910')}

Description

Restores window size, position, toolbar settings, and menu item settings from the registry.

Access

Public

Syntax

instancename.**of_Restore** (*registrykey*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
registrykey	String specifying the registry key from which to restore settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in a window Open event to restore settings to their previous state.

Use Syntax 2 to restore settings from an INI file.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

Syntax 1 To restore settings from the registry

This example calls the of_Restore function to restore settings, as saved in the EISAPP section of the registry:

```
String   ls_appkey

Integer   li_return

ls_appkey = "HKEY_CURRENT_USER\Software\EISAPP"
li_return = &
        this.inv_preference.of_Restore(ls_appkey)
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Unable to restore settings")
END IF
```

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

Syntax 2 To restore settings from an INI file

Syntax 2 To restore settings from an INI file

{button Examples,JI(`>Examples',`id_pfcoref_3912')}

Description

Restores window size, position, toolbar settings, and menu item settings from an INI file.

Access

Public

Syntax

instancename.**of_Restore** (*inifile*, *section*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
inifile	String specifying the INI file from which to restore settings
section	String specifying the INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in a window Open event to restore settings to their previous state.

Use Syntax 1 to restore settings from the registry.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's Advanced Project Analyzer

Syntax 2 To restore settings from an INI file

This example calls the of_Restore function to restore settings, as saved in the EISAPP section of the registry:

```
String   ls_inifile

Integer  li_return

ls_inifile = gnv_app.of_GetUserINIFile( )
li_return = this.inv_preference.of_Restore &
        (ls_inifile, "Eisapp")
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_RestoreMenu function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3914')}

Description

Restores menu items from the registry or an INI file.

Access

Protected

Syntax

instancename.**of_RestoreMenu** (*useregistry*, *keyorinifile*, *section*, *menu*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file
keyorinifile	String specifying either the registry key or the INI file from which to restore settings
section	String specifying the INI file section containing the settings
menu	Menu variable specifying the menu to be restored

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_RestoreMenu function (n_cst_winsrv_preference)

This example is from the of_Restore function:

```
...

IF ib_menuitems THEN
        li_rc = of_RestoreMenu(ab_UseRegistry, &
               as_KeyOrIni, as_IniSection, &
                  iw_requestor.MenuId)
END IF
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_RestorePositiveNumber function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3916')}
```

Description

Accesses the registry or an INI file and reports whether the specified key value returns a positive or a negative number.

Access

Protected

Syntax

instancename.**of_RestorePositiveNumber** (*useregistry*, *keyorinifile*, *section*, *key*, *value*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is

	inv_preference)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file (FALSE)
keyorinifile	String specifying either the registry key or the INI file from which to restore settings
section	String specifying the INI file section containing the settings
key	String specifying the registry or INI file key value
value	Integer into which the function places the value to be restored

Return value

Boolean. Returns TRUE if *key* contains a positive number and FALSE if it contains a negative number.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_RestorePositiveNumber function (n_cst_winsrv_preference)

This example is from the of_Restore function:

```
...

IF NOT of_RestorePositiveNumber &
        (ab_UseRegistry, as_KeyOrIni, as_IniSection, &
               ls_tbindex+'.x', li_x) THEN &
                      lb_toolbarposition=False
...
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_Save function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')}

Saves window, toolbar, and menu settings in the registry or an INI file. There are two syntaxes:

To	Use
Save settings in the registry	Syntax 1
Save settings in an INI file	Syntax 2

Other versions of of_Save There are also two undocumented versions of of_Save, which are for internal use.

Created with the Personal Edition of HelpNDoc: Free EPub producer

Syntax 1 To save settings in the registry

Syntax 1 To save settings in the registry

{button Examples,JI(`>Examples',`id_pfcoref_3919')}

Description

Saves window size, position, toolbar settings, and menu item settings in the registry.

Access

Public

Syntax

instancename.**of_Save** (*registrykey*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
registrykey	String specifying the registry key in which to save settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in a window Close event to save the current settings.

Use Syntax 2 to save settings in an INI file.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

Syntax 1 To save settings in the registry

This example calls the of_Save function to save settings, as saved in the EISAPP section of the registry:

```
String   ls_appkey

Integer  li_return

ls_appkey = "HKEY_CURRENT_USER\Software\EISAPP"
li_return = this.inv_preference.of_Save(ls_appkey)
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Unable to save settings")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

Syntax 2 To save settings in an INI file

Syntax 2 To save settings in an INI file

```
{button Examples,JI(`>Examples',`id_pfcoref_3921')}
```

Description

Saves window size, position, toolbar settings, and menu item settings in an INI file.

Access

Public

Syntax

instancename.**of_Save** (*inifile*, *section*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
inifile	String specifying the INI file from which to restore settings
section	String specifying the INI file section containing the settings

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function in a window Close event to save current settings.

Use Syntax 1 to save settings in the registry.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

Syntax 2 To save settings in an INI file

This example calls the of_Save function to restore settings, as saved in the EISAPP section of the registry:

```
String   ls_inifile

Integer  li_return

ls_inifile = gnv_app.of_GetUserINIFile( )
li_return = this.inv_preference.of_Save &
        (ls_inifile, "Eisapp")
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Unable to save settings")
END IF
```

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SaveMenu function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3923')}
```

Description

Saves menu items in either the registry or an INI file.

Access

Protected

Syntax

instancename.**of_SaveMenu** (*useregistry*, *keyorinifile*, *section*, *menu*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
useregistry	Boolean specifying whether to use the registry (TRUE) or an INI file
keyorinifile	String specifying either the registry key or the INI file in which to save settings
section	String specifying the INI file section to contain the settings
menu	Menu variable specifying the menu to be saved

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SaveMenu function (n_cst_winsrv_preference)

This example is from the of_Save function:

```
...

IF of_SaveMenu(ab_UseRegistry, as_KeyOrIni, &
        as_IniSection, iw_requestor.MenuId) < 0 THEN
       Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetMenuItems function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3925')}
```

Description

Specifies whether the service restores menu items.

Access

Public

Syntax

instancename.**of_SetMenuItems** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores menu items (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetMenuItems function (n_cst_winsrv_preference)

This example calls the of_SetMenuItems function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetMenuItems(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", &
```

```
        "Error in of_SetMenuItems")
END IF
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_SetPosSize function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3927')}

Description

Stores the current position and size of the associated window.

Access

Public

Syntax

instancename.**of_SetPosSize** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)

Return value

Integer. Returns 1 if the function succeeds, 0 if the window state is not Normal!, and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free help authoring environment

of_SetPosSize function (n_cst_winsrv_preference)

This example is from the of_Save function:

```
...

IF iw_requestor.WindowState=Normal! THEN
        of_SetPosSize( )
END IF
...
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_SetToolbarItemOrder function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3929')}

Description

Specifies whether the service restores toolbar item order.

Access

Public

Syntax

instancename.**of_SetToolbarItemOrder** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores toolbar item order (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetToolbarItemOrder function (n_cst_winsrv_preference)

This example calls the of_SetToolbarItemOrder function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetToolbarItemOrder(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Error in of_SetToolbarItemOrder")
END IF
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_SetToolbarItemSpace function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3931')}
```

Description

Specifies whether the service restores the ToolbarItemSpace property.

Access

Public

Syntax

instancename.**of_SetToolbarItemSpace** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores toolbar item space (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation Review a Breeze with HelpNDoc's

Advanced Project Analyzer

of_SetToolbarItemSpace function (n_cst_winsrv_preference)

This example calls the of_SetToolbarItemSpace function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetToolbarItemSpace(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Error in of_SetToolbarItemSpace")
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create Web Help sites

of_SetToolbarItemVisible function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3933')}
```

Description

Specifies whether the service restores the ToolbarItemVisible property.

Access

Public

Syntax

instancename.**of_SetToolbarItemVisible** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores the toolbar item Visible property (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetToolbarItemVisible function (n_cst_winsrv_preference)

This example calls the of_SetToolbarItemVisible function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetToolbarItemVisible(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", &
```

```
                "Error in of_SetToolbarItemVisible")
END IF
```

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_SetToolbars function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3935')}

Description

Specifies whether the service restores toolbars.

Access

Public

Syntax

instancename.**of_SetToolbars** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores toolbars (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_SetToolbars function (n_cst_winsrv_preference)

This example calls the of_SetToolbars function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetToolbars(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", "Error in of_SetToolbars")
END IF
```

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_SetToolbarTitles function (n_cst_winsrv_preference)

{button Object,JI(`>main',`cdecgbjh')} {button Examples,JI(`>Examples',`id_pfcoref_3937')}

Description

Specifies whether the service restores toolbar titles.

Access

Public

Syntax

instancename.**of_SetToolbarTitles** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores toolbar titles (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_SetToolbarTitles function (n_cst_winsrv_preference)

This example calls the of_SetToolbarTitles function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetToolbarTitles(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", &
               "Error in of_SetToolbarTitles")
END IF
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetWindow function (n_cst_winsrv_preference)

```
{button Object,JI(`>main',`cdecgbjh')} {button
Examples,JI(`>Examples',`id_pfcoref_3939')}
```

Description

Specifies whether the service restores window properties.

Access

Public

Syntax

instancename.**of_SetWindow** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_preference (the w_master default is inv_preference)
boolean	Boolean specifying whether the preference service restores window properties (TRUE) or not (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetWindow function (n_cst_winsrv_preference)

This example calls the of_SetWindow function:

```
Integer  li_return


li_return = &
        this.inv_preference.of_SetWindow(TRUE)
IF li_return = -1 THEN
        MessageBox("Preference", "Error in of_SetWindow")
END IF
```

Created with the Personal Edition of HelpNDoc: Modernize your help files with HelpNDoc's WinHelp HLP to CHM conversion tool

n_cst_winsrv_sheetmanager

```
{button Ancestor,JI(`>main',`cdechfgc')} {button See also,PI(`',`id_pfcoref_3941')}
{button Functions,JI(`>list_win',`id_pfcoref_3951')} {button
Events,JI(`>list_win',`id_pfcoref_3943')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3942')}
```

Description

Sheet management service. The service provides events that are called by PFC menu items to manage multiple sheet display, including the ability to undo a sheet arrangement command. It also provides functions allowing you to access open sheets.

Ancestry

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Object relationships

w_master

Usage

Enable the sheet management service for all multiple-sheet MDI applications. You don't need this service if your MDI application uses a single-sheet frame.

To use the sheet management service:

1. Create an instance of n_cst_winsrv_sheetmanager by calling the w_frame of_SetSheetManager function.
2. Call n_cst_sheetmanager functions as needed to access information on open sheets.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_winsrv_sheetmanagerattrib custom class user object replaces the os_sheet object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

n_cst_winsrv_sheetmanager

n_cst_resize

n_cst_winsrv

n_cst_winsrv_preference

n_cst_winsrv_statusbar

w_master

w_frame

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

n_cst_winsrv_sheetmanager

{button Functions,JI(`>list_win',`id_pfcoref_3951')} {button Events,JI(`>list_win',`id_pfcoref_3943')}

N_cst_winsrv_sheetmanager includes instance variables:

Instance variable	Description	Data type	Access	Usage
ie_arrange	Current arrange type	ArrangeTypes	Protected	Internal
inv_sheet[ ]	Array containing information on the previous state of active sheets	n_cst_winsrv_sheetmanagerattrib	Protected	Internal

Created with the Personal Edition of HelpNDoc: Ensure High-Quality Documentation with HelpNDoc's Hyperlink and Library Item Reports

n_cst_winsrv_sheetmanager

{button Functions,JI(`>list_win',`id_pfcoref_3951')} {button Instance variables,JI(`>list_win',`id_pfcoref_3942')}

- **Constructor event**
- **pfc_Cascade event**
- **pfc_Layer event**
- **pfc_MinimizeAll event**
- **pfc_TileHorizontal event**
- **pfc_TileVertical event**
- **pfc_UndoArrange event**

N_cst_winsrv_sheetmanager includes precoded events:

Constructor	pfc_TileHorizontal
pfc_Cascade	pfc_TileVertical
pfc_Layer	pfc_UndoArrange
pfc_MinimizeAll	

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

Constructor event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Initializes the ie_arrange instance variable.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

pfc_Cascade event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Saves information in the istr_sheet array and cascades open sheets.

Usage

This event executes when the user selects Window>Cascade from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

pfc_Layer event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Saves information in the istr_sheet array and layers open sheets.

Usage

This event executes when the user selects Window>Layer from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

pfc_MinimizeAll event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Saves information in the istr_sheet array and minimizes all open sheets.

Usage

This event executes when the user selects Window>Minimize All from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Markdown Content with HelpNDoc

pfc_TileHorizontal event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Saves information in the istr_sheet array and tiles open sheets horizontally.

Usage

This event executes when the user selects Window>Tile Horizontal from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

pfc_TileVertical event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Saves information in the istr_sheet array and tiles open sheets vertically.

Usage

This event executes when the user selects Window>Tile Vertical from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

pfc_UndoArrange event (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')}

Description

Restores all sheets to their previous state and position, using the information in the istr_sheet array.

Usage

This event executes when the user selects Window>Undo Arrange from the menu bar of a menu inherited from m_master.

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

n_cst_winsrv_sheetmanager

{button Events,JI(`>list_win',`id_pfcoref_3943')} {button Instance variables,JI(`>list_win',`id_pfcoref_3942')}

of_GetCurrentState function

of_GetSheetCount function

of_GetSheets function

of_GetSheetsByClass function

of_GetSheetsByTitle function

of_SetCurrentState function

N_cst_winsrv_sheetmanager includes precoded object functions:

of_GetCurrentState	of_GetSheetsByClass
of_GetSheetCount	of_GetSheetsByTitle
of_GetSheets	of_SetCurrentState

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_GetCurrentState function (n_cst_winsrv_sheetmanager)

{button Object,JI(`>main',`caibafhi')} {button Examples,JI(`>Examples',`id_pfcoref_3953')}

Description

Retrieves the current arrange type for undo.

Access

Public

Syntax

instancename.**of_GetCurrentState** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)

Return value

ArrangeTypes enumerated variable. Returns the current arrange state of open windows or NULL if Undo Arrange was the last action.

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetCurrentState function (n_cst_winsrv_sheetmanager)

This example calls the of_GetCurrentState function:

```
ArrangeTypes  lat_arrange


lat_arrange = of_GetCurrentState()
```

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_GetSheetCount function (n_cst_winsrv_sheetmanager)

```
{button Object,JI(`>main',`caibafhi')} {button
Examples,JI(`>Examples',`id_pfcoref_3955')}
```

Description

Retrieves the number of sheets open for the current frame.

Access

Public

Syntax

instancename.**of_GetSheetCount** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)

Return value

Integer. Returns the number of open sheets for the current frame.

Created with the Personal Edition of HelpNDoc: Achieve Professional Documentation Results with a Help Authoring Tool

of_GetSheetCount function (n_cst_winsrv_sheetmanager)

This example, from a frame window Timer event, calls the of_GetSheetCount function:

```
Integer  li_return


li_return = &
        this.inv_sheetmanager.of_GetSheetCount()
this.SetMicroHelp &
        (String(li_return) + " open sheets")
```

Created with the Personal Edition of HelpNDoc: Experience the Power and Simplicity of HelpNDoc's User Interface

of_GetSheets function (n_cst_winsrv_sheetmanager)

```
{button Object,JI(`>main',`caibafhi')} {button
Examples,JI(`>Examples',`id_pfcoref_3957')}
```

Description

Populates an array with a frame's open sheets.

Access

Public

Syntax

instancename.**of_GetSheets** (*sheets*)

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)
sheets	Array of windows into which the function places the open sheets (passed by reference)

Return value

Integer. Returns the number of open sheets.

Usage

Call this function to determine the number of open sheets and to populate an array containing the handles for all open sheets.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's CHM Help File Creation Features

of_GetSheets function (n_cst_winsrv_sheetmanager)

This example calls the of_GetSheets function:

```
window   lw_sheet, lw_opensheets[ ]


String   ls_sheet
Integer  li_return

ls_sheet = Message.StringParm
OpenSheet(lw_sheet, ls_sheet, this)
li_return = this.inv_sheetmanager.of_GetSheets &
        (lw_opensheets)
this.SetMicroHelp(String(li_return) + " open sheets")
END IF
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_GetSheetsByClass function (n_cst_winsrv_sheetmanager)

```
{button Object,JI(`>main',`caibafhi')} {button
Examples,JI(`>Examples',`id_pfcoref_3959')}
```

Description

Returns all open sheets of a specified sheet type.

Access

Public

Syntax

instancename.**of_GetSheetsByClass** (*sheets*, *class*)

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)
sheets	Array of windows into which the function places all sheets of the specified class (passed by reference)
class	String specifying the window class whose open sheets will be returned

Return value

Integer. Returns the number of open sheets of type *class*.

Usage

Call this function to determine the number of open sheets for a particular window class.

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_GetSheetsByClass function (n_cst_winsrv_sheetmanager)

This example calls the of_GetSheetsByClass function to determine an options sheet is open (this assumes a rule that restricts an application to a single open options sheet):

```
window  lw_sheet, lw_opensheets[ ]


String  ls_sheet
Integer li_return

ls_sheet = Message.StringParm
li_return = &
        this.inv_sheetmanager.of_GetSheetsByClass &
           (lw_opensheets, ls_sheet)
IF li_return > 0 THEN
        lw_opensheets[1].WindowState = Normal!
        lw_opensheets[1].BringToTop = TRUE
ELSE
        OpenSheet(lw_sheet, ls_sheet, this)
END IF
```

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetSheetsByTitle function (n_cst_winsrv_sheetmanager)

```
{button Object,JI(`>main',`caibafhi')} {button
Examples,JI(`>Examples',`id_pfcoref_3961')}
```

Description

Returns all open sheets with a specified title.

Access

Public

Syntax

instancename.**of_GetSheetsByTitle** (*sheets*, *title* {, *partialmatch* })

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)
sheets	Array of windows into which the function places all sheets with the specified title (passed by reference)
title	String containing the title to be searched for
partialmatch (optional)	Boolean indicating whether the sheet title can contain *title* (TRUE) or must match *title* (FALSE). The default is FALSE

Return value

Integer. Returns the number of open sheets whose titles match the criteria.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with HelpNDoc's Project Analyzer

of_GetSheetsByTitle function (n_cst_winsrv_sheetmanager)

This example, from the w_frame pfc_Open event, calls the of_GetSheetsByTitle function to determine if a sheet is already open for the specified employee:

```
window   lw_sheet, lw_opensheets[ ]


String   ls_sheet, ls_title
Integer  li_return
Long     ll_emp_id

ls_sheet = Message.StringParm
ll_emp_id = Message.LongParm
ls_title = "Employee information for " &
        + String(ll_emp_id)
li_return = &
        this.inv_sheetmanager.of_GetSheetsByTitle &
               (lw_opensheets, ls_title, FALSE)
IF li_return > 0 THEN
        lw_opensheets[1].WindowState = Normal!
        lw_opensheets[1].BringToTop = TRUE
ELSE
        OpenSheetWithParm &
               (lw_sheet, ll_emp_id, ls_sheet, this)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily Add Encryption and Password Protection to Your PDFs

of_SetCurrentState function (n_cst_winsrv_sheetmanager)

```
{button Object,JI(`>main',`caibafhi')} {button
Examples,JI(`>Examples',`id_pfcoref_3963')}
```

Description

Sets the current arrange type for undo.

Access

Protected

Syntax

instancename.**of_SetCurrentState** (*arrange*)

Argument	Description
instancename	Instance name of n_cst_winsrv_sheetmanager (the w_frame default is inv_sheetmanager)
arrange	ArrangeTypes variable specifying the current arrange type

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Effortlessly Support Your Windows Applications with HelpNDoc's CHM Generation

of_SetCurrentState function (n_cst_winsrv_sheetmanager)

This example is from the pfc_Cascade event:

```
...

of_SetCurrentState(Cascade!)
li_rc = iw_requestor.ArrangeSheets(Cascade!)
Return li_rc
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

n_cst_winsrv_statusbar

```
{button Ancestor,JI(`>main',`cdechfgc')} {button See also,PI(`',`id_pfcoref_3965')}
{button Functions,JI(`>list_win',`id_pfcoref_3979')} {button
Events,JI(`>list_win',`id_pfcoref_3967')} {button Instance
variables,JI(`>list_win',`id_pfcoref_3966')}
```

Description

Status bar service. N_cst_winsrv_statusbar provides functions that display memory and time in a frame window's status bar. This service also includes functions that display a progress bar in the status bar area.

Ancestry

Public constants

Display style

Integer	BAR = 0
Integer	PCTCOMPLETE = 1
Integer	POSITION = 2

Fill style

Integer	LEFTRIGHT = 0
Integer	RIGHTLEFT = 1
Integer	TOPDOWN = 2
Integer	BOTTOMUP = 3

Events

Constructor	pfc_Show
pfc_Hide	pfc_StatusBarClicked
pfc_Move	pfc_StatusBarDoubleClick
pfc_Resize	pfc_StatusBarRButtonUp

Object functions

Public	of_BarIncrement	Protected	of_RestoreFocusPoint
Public	of_BarReset	Public	of_SetBar
Protected	of_BarUpdateVisuals	Public	of_SetBarAutoReset
Protected	of_CalculateMicrohelpHeight	Public	of_SetBarDisplayStyle
Public	of_CreateDWObject	Public	of_SetBarFillColor
Public	of_GetBar	Public	of_SetBarFillStyle
Public	of_GetBarDisplayStyle	Public	of_SetBarMaximum
Public	of_GetBarFillColor	Public	of_SetBarMinimum
Public	of_GetBarFillStyle	Public	of_SetBarOffsetX
Public	of_GetBarMaximum	Public	of_SetBarOffsetY
Public	of_GetBarMinimum	Public	of_SetBarPosition
Public	of_GetBarPctComplete	Public	of_SetBarStep
Public	of_GetBarPosition	Public	of_SetBarTextColor
Public	of_GetBarStep	Public	of_SetBarWidth
Public	of_GetBarTextColor	Public	of_SetBorderType
Public	of_GetBarWidth	Public	of_SetGapWidth
Public	of_GetBorderType	Public	of_SetGDI
Public	of_GetGapWidth	Public	of_SetGDIThreshold
Public	of_GetGDI	Public	of_SetGDIWidth
Public	of_GetGDIThreshold	Public	of_SetMem
Public	of_GetMem	Public	of_SetMemThreshold
Public	of_GetMemThreshold	Public	of_SetMemWidth
Public	of_GetRefreshRate	Public	of_SetRefreshRate
Public	of_GetTimer	Public	of_SetTimer
Public	of_GetTimerInterval	Public	of_SetTimerFormat
Public	of_GetUser	Public	of_SetTimerInterval
Public	of_GetUserThreshold	Public	of_SetTimerWidth
Public	of_IsBarAutoReset	Public	of_SetUser
Protected	of_IsPredefined	Public	of_SetUserThreshold
Public	of_Modify	Public	of_SetUserWidth
Public	of_Open	Public	of_UnRegister
Public	of_Register	Protected	of_UnRegisterPredefined
Protected	of_RegisterPredefined	Protected	of_UpdatePredefined

Library

PFCWNSRV.PBL

PFEWNSRV.PBL

Usage

Call the functions in this user object to control status bar display.

To use this object:

1 Enable the status bar service by calling the w_frame of_SetStatusBar function:

```
w_frame.of_SetStatusBar(TRUE)
```

2 Call n_cst_winsrv_statusbar functions in the w_frame pfc_PreOpen event to specify the items displayed. The service displays items in the order that their associated functions are called, from left to right. For example, the following example displays memory to the left of the date and time:

```
w_frame.inv_statusbar.of_SetMem(TRUE)

w_frame.inv_statusbar.of_SetTimer(TRUE)
```

3 Call other n_cst_winsrv_statusbar functions as appropriate.

PFC 7 custom class extension To further the extendibility of PFC, a new n_cst_winsrv_statusbarattrib custom class user object replaces the os_dwobjects object structure that is now obsolete.

Created with the Personal Edition of HelpNDoc: Free EPub producer

n_cst_winsrv_statusbar

n_cst_resize

n_cst_winsrv

n_cst_winsrv_preference

n_cst_winsrv_sheetmanager

w_frame

u_progressbar

w_statusbar

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

n_cst_winsrv_statusbar

{button Functions,JI(`>list_win',`id_pfcoref_3979')} {button Events,JI(`>list_win',`id_pfcoref_3967')}

N_cst_winsrv_statusbar includes instance variables:

Instance variable	Description	Data type	Access	Usage
BAR	Constant set to 0	Integer	Public	Use with of_SetBarDisplayStyle
BITMAP	Constant set to "bitmap"	String	Protected	Internal
BOTTOMUP	Constant set to 3	Integer	Public	Use with of_SetFillStyle
ib_bar	Controls progress bar display	Boolean	Protected	Set with of_SetBar
ib_barautoreset	Controls progress bar autoreset	Boolean	Protected	Set with of_SetBarAutoReset (default is TRUE)
ib_gdi	Indicates whether GDI is displayed	Boolean	Protected	Set with of_SetGDI
ib_mem	Indicates whether memory is displayed	Boolean	Protected	Set with of_SetMem
ib_timer	Indicates whether time is displayed	Boolean	Protected	Set with of_SetTimer
ib_user	Indicates whether user memory is	Boolean	Protected	Set with of_SetUser

	displayed			
ienv_object	Environment object	Environment	Protected	Internal
ii_bardisplaystyle	Bar display style	Integer	Protected	Set with of_SetBarDisplayStyle (default is BAR)
ii_barfillstyle	Bar fill style	Integer	Protected	Set with of_SetBarFillStyle (default is LEFTRIGHT)
ii_barheight	Height	Integer	Protected	Internal
ii_barmax	Progress bar maximum	Integer	Protected	Set with of_SetBarMaximum (default is 100)
ii_barmin	Progress bar minimum	Integer	Protected	Set with of_SetBarMinimum (default is 1)
ii_baroffsetx	Bar offset	Integer	Protected	Set with of_SetBarOffsetX (default is 10)
ii_baroffsety	Bar offset	Integer	Protected	Set with of_SetBarOffsetY (default is 7)
ii_barpctcomplete	Current progress	Integer	Protected	Internal
ii_barposition	Progress bar position	Integer	Protected	Set with of_SetBarPosition. Default is 0
ii_barstartx	Progress bar start x	Integer	Protected	Internal
ii_barstarty	Progress bar start y	Integer	Protected	Internal
ii_barstep	Progress bar step	Integer	Protected	Set with of_SetBarStep (default is 10)
ii_barwidth	Progress bar width	Integer	Protected	Set with of_SetBarWidth (default is 200)
ii_bordertype	Border type	Integer	Protected	Set with of_SetBorderType (default is 5)
ii_gapwidth	Gap width	Integer	Protected	Set with of_SetGapWidth (default is 15)
ii_gdiwidth	Width of GDI item	Integer	Protected	Set with of_SetGDIWidth (default is 250)
ii_memwidth	Width of memory item	Integer	Protected	Set with of_SetMemWidth (default is 350)
ii_refreshrate	Number of seconds between refreshes	Integer	Protected	Set with of_SetRefreshRate (default is 60)
ii_timerwidth	Width of timer item	Integer	Protected	Set with of_SetTimerWidth (default is 400)
ii_userwidth	Width of user memory item	Integer	Protected	Set with of_SetUserWidth (default is 270)
il_barfillcolor	Progress bar fill color	Long	Protected	Set with of_SetBarFillColor (default is 10789024 - medium gray)
il_bartextcolor	Progress bar text	Long	Protected	Set with of_SetBarTextColor (default is 0 - black)
il_gdithreshold	Threshold under which a warning displays	Long	Protected	Set with of_SetGDIThreshold
il_memthreshold	Threshold under which a warning displays	Long	Protected	Set with of_SetMemThreshold

il_timerinterval	In milliseconds	Long	Protected	Set with of_SetTimerInterval (default is 1000)
il_userthreshold	Threshold under which a warning displays	Long	Protected	Set with of_SetUserThreshold
inv_dwobjects [ ]	Status bar items	n_cst_winsrv_statusbarattrib	Protected	Internal
is_timerformat	Timer format	String	Protected	Set with of_SetTimerFormat (default is m-d-yy h:mm:ss)
iw_statusbar	Status bar window	w_statusbar	Protected	Internal
LEFTRIGHT	Constant set to 0	Integer	Public	Use with of_SetBarFillStyle
PCTCOMPLETE	Constant set to 1	Integer	Public	Use with of_SetBarStyle
POSITION	Constant set to 2	Integer	Public	Use with of_SetBarDisplayStyle
PREDEFINED	Constant set to "predefined"	String	Protected	Internal
RIGHTLEFT	Constant set to 1	Integer	Public	Use with of_SetBarFillStyle
TEXT	Constant set to "text"	String	Protected	Internal
TOPDOWN	Constant set to 2	Integer	Public	Use with of_SetBarFillStyle

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

n_cst_winsrv_statusbar

{button Functions,JI(`>list_win',`id_pfcoref_3979')} {button Instance variables,JI(`>list_win',`id_pfcoref_3966')}

- **Constructor event**
- **pfc_Hide event**
- **pfc_Move event**
- **pfc_Resize event**
- **pfc_Show event**

pfc_StatusBarClicked event

pfc_StatusBarDoubleClick event

pfc_StatusBarRButtonUp event

N_cst_winsrv_statusbar includes precoded event scripts:

Constructor	pfc_Show
pfc_Hide	pfc_StatusBarClicked
pfc_Move	pfc_StatusBarDoubleClick
pfc_Resize	pfc_StatusBarRButtonUp

Created with the Personal Edition of HelpNDoc: Easily create EPub books

Constructor event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')}

Description

Populates the ienv_environment instance variable.

Usage

This event executes when the object is created.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

pfc_Hide event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')}

Description

Hides the w_statusbar window when the frame window is hidden.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_frame Hide event calls this event.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

pfc_Move event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')}

Description

Moves and resizes the w_statusbar window to match the new position and size of the associated frame window.

Syntax

instancename.Event **pfc_Move** (*x*, *y*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
x	Integer specifying the new x position of the associated frame window. From within the pfc_Move event, access this value through the *ai_xpos* argument
y	Integer specifying the new y position of the associated frame window. From within the pfc_Move event, access this value through the *ai_ypos* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_frame Move event calls this event.

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

pfc_Resize event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')}

Description

Resizes the w_statusbar window based on the new size and position of the associated frame window.

Syntax

instancename.Event **pfc_Resize** (*sizetype*, *newwidth*, *newheight*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
sizetype	Unsigned Long specifying the type of resize. Values are: • **0** The frame window was resized but was not maximized or minimized • **1** The frame window was minimized • **2** The frame window was maximized From within the pfc_Resize event, access this value through the *aul_sizetype* argument
newwidth	Integer specifying the new window width, in PBUs
newheight	Integer specifying the new window height, in PBUs

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_master Resize event calls this event.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

pfc_Show event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')}

Description

Displays the w_statusbar window.

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

The w_master Show event calls this event.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

pfc_StatusBarClicked event (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_3974')}

Description

Empty user event into which you place code to execute when the user clicks in the status bar window.

Syntax

instancename.Event **pfc_StatusBarClicked** (*x*, *y*, *name*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
x	Integer specifying the x position of the mouse click. From within the pfc_StatusBarClicked event, access this value through the *ai_xpos* argument
y	Integer specifying the x position of the mouse click. From within the pfc_StatusBarClicked event, access this value through the *ai_ypos* argument
name	String containing the name of the status bar element that was clicked (for example, this argument contains pfc_mem if the user clicks in the memory display). From within the pfc_StatusBarClicked event, access this value through the *as_name* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Web Help generator

pfc_StatusBarClicked event (n_cst_winsrv_statusbar)

This example shows code you might add to the pfc_StatusBarClicked event to display a popup calculator window. This assumes that you have called the of_Register function to display text for the calculator on the status bar and that you have created a window named w_popcalc:

```
IF as_name = "calc" THEN

        Open(w_popcalc, iw_requestor)
END IF
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

pfc_StatusBarDoubleClick event (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3976')}
```

Description

Empty user event into which you place code to execute when the user double-clicks in the status bar window.

Syntax

instancename.Event **pfc_StatusBarDoubleClick** (*x*, *y*, *name*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
x	Integer specifying the x position of the mouse click. From within the pfc_StatusBarDoubleClick event, access this value through the *ai_xpos* argument
y	Integer specifying the x position of the mouse click. From within the pfc_StatusBarDoubleClick event, access this value through the *ai_ypos* argument
name	String containing the name of the status bar element that was clicked (for example, this argument contains pfc_mem if the user clicks in the memory display). From within the pfc_StatusBarDoubleClick event, access this value through the *as_name* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Usage

Add code to this event to perform some action when the user double-clicks in the status bar window.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

pfc_StatusBarDoubleClick event (n_cst_winsrv_statusbar)

This example shows code you might add to the pfc_StatusBarDoubleClick event to display a popup calculator window. This assumes that you have called the of_Register function to display text for the calculator on the status bar and that you have created a window named w_popcalc:

```
IF as_name = "calc" THEN

        Open(w_popcalc, iw_requestor)
END IF
```

Created with the Personal Edition of HelpNDoc: Enhance Your Documentation with HelpNDoc's Advanced Project Analyzer

pfc_StatusBarRButtonUp event (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3978')}
```

Description

Empty user event into which you place code to execute when the user right-clicks in the status bar window.

Syntax

instancename.Event **pfc_StatusBarRButtonUp** (*x*, *y*, *name*)

Argument	Description
instancename	Instance name of n_cst_rtefind
x	Integer specifying the x position of the mouse click. From within the pfc_StatusBarRButtonUp event, access this value through the *ai_xpos* argument
y	Integer specifying the x position of the mouse click. From within the pfc_StatusBarRButtonUp event, access this value through the *ai_ypos* argument
name	String containing the name of the status bar element that was clicked (for example, this argument contains pfc_mem if the user clicks in the memory display). From within the pfc_StatusBarRButtonUp event, access this value through the *as_name* argument

Return value

Integer. Returns 1 if the event succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of a Help Authoring Tool

pfc_StatusBarRButtonUp event (n_cst_winsrv_statusbar)

This example shows code you might add to the pfc_StatusBarRButtonUp event to display a popup calculator window. This assumes that you have called the of_Register function to display text for the calculator on the status bar and that you have created a window named w_popcalc:

```
IF as_name = "calc" THEN

        Open(w_popcalc, iw_requestor)
END IF
```

Created with the Personal Edition of HelpNDoc: Why Microsoft Word Isn't Cut Out for Documentation: The Benefits of a Help Authoring Tool

n_cst_winsrv_statusbar

{button Events,JI(`>list_win',`id_pfcoref_3967')} {button Instance variables,JI(`>list_win',`id_pfcoref_3966')}

of_BarIncrement function

of_BarReset function

of_BarUpdateVisuals function

of_CalculateMicrohelpHeight function

of_CreateDWObject function

of_GetBar function

of_GetBarDisplayStyle function

of_GetBarFillColor function

of_GetBarFillStyle function

of_GetBarMaximum function

of_GetBarMinimum function

of_GetBarPctComplete function

of_GetBarPosition function

of_GetBarStep function

of_GetBarTextColor function

of_GetBarWidth function

of_GetBorderType function

of_GetGapWidth function

of_GetGDI function

of_GetGDIThreshold function

of_GetMem function

of_GetMemThreshold function

of_GetRefreshRate function

of_GetTimer function

of_GetTimerInterval function

of_GetUser function

of_GetUserThreshold function

of_IsBarAutoReset function

of_IsPredefined function

of_Modify function

of_Open function

of_Register function

of_RegisterPredefined function

of_RestoreFocusPoint function

of_SetBar function

of_SetBarAutoReset function

of_SetBarDisplayStyle function

of_SetBarFillColor function

of_SetBarFillStyle function

of_SetBarMaximum function

of_SetBarMinimum function

of_SetBarOffsetX function

of_SetBarOffsetY function

of_SetBarPosition function

of_SetBarStep function

of_SetBarTextColor function

of_SetBarWidth function

of_SetBorderType function

of_SetGapWidth function

of_SetGDI function

of_SetGDIThreshold function

of_SetGDIWidth function

of_SetMem function

of_SetMemThreshold function

of_SetMemWidth function

of_SetRefreshRate function

of_SetTimer function

of_SetTimerFormat function

of_SetTimerInterval function

of_SetTimerWidth function

of_SetUser function

of_SetUserThreshold function

of_SetUserWidth function

of_UnRegister function

of_UnRegisterPredefined function

of_UpdatePredefined function

N_cst_winsrv_statusbar includes precoded object functions:

- of_BarIncrement
- of_BarReset
- of_BarUpdateVisuals
- of_CalculateMicrohelpHeight
- of_CreateDWObject
- of_RestoreFocusPoint
- of_SetBar
- of_SetBarAutoReset
- of_SetBarDisplayStyle
- of_SetBarFillColor

of_GetBar
of_GetBarDisplayStyle
of_GetBarFillColor
of_GetBarFillStyle
of_GetBarMaximum
of_GetBarMinimum
of_GetBarPctComplete
of_GetBarPosition
of_GetBarStep
of_GetBarTextColor
of_GetBarWidth
of_GetBorderType
of_GetGapWidth
of_GetGDI
of_GetGDIThreshold
of_GetMem
of_GetMemThreshold
of_GetRefreshRate
of_GetTimer
of_GetTimerInterval
of_GetUser
of_GetUserThreshold
of_IsBarAutoReset
of_IsPredefined
of_Modify
of_Open
of_Register
of_RegisterPredefined
of_SetBarFillStyle
of_SetBarMaximum
of_SetBarMinimum
of_SetBarOffsetX
of_SetBarOffsetY
of_SetBarPosition
of_SetBarStep
of_SetBarTextColor
of_SetBarWidth
of_SetBorderType
of_SetGapWidth
of_SetGDI
of_SetGDIThreshold
of_SetGDIWidth
of_SetMem
of_SetMemThreshold
of_SetMemWidth
of_SetRefreshRate
of_SetTimer
of_SetTimerFormat
of_SetTimerInterval
of_SetTimerWidth
of_SetUser
of_SetUserThreshold
of_SetUserWidth
of_UnRegister
of_UnRegisterPredefined
of_UpdatePredefined

Created with the Personal Edition of HelpNDoc: Say Goodbye to Documentation Headaches with a Help Authoring Tool

of_BarIncrement function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_3981')}

Description

Increments the progress by either the default increment value or by a specified value.

Access

Public

Syntax

instancename.**of_BarIncrement** ({ *incrementvalue* })

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
incrementvalue (optional)	Integer specifying the increment value. The default increment value is 10, which you can modify by calling the of_SetBarStep function

Return value

Integer. Returns the current percent complete.

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_BarIncrement function (n_cst_winsrv_statusbar)

This example calls the of_BarIncrement function:

```
Integer  li_count

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBar(TRUE)
lw_frame.inv_statusbar.of_SetBarPosition(0)
For li_count = 1 to 100 STEP 1
        lw_frame.inv_statusbar.of_BarIncrement(1)
NEXT
lw_frame.inv_statusbar.of_SetBar(FALSE)
```

Created with the Personal Edition of HelpNDoc: Transform Your Word Doc into a Professional-Quality eBook with HelpNDoc

of_BarReset function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3983')}
```

Description

Clears the progress bar displayed in the status bar.

Access

Public

Syntax

instancename.**of_BarReset** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_BarReset function (n_cst_winsrv_statusbar)

This example is from the of_SetBarPosition function:

```
...

if ldc_completion >= 1 and ib_barautoreset then
        this.post function of_BarReset ()
end if
...
```

Created with the Personal Edition of HelpNDoc: Produce Kindle eBooks easily

of_BarUpdateVisuals function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3985')}
```

Description

Creates a string used to resize the progress bar and update the display text.

Access

Protected

Syntax

instancename.**of_BarUpdateVisuals** (*completionvalue*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
completionvalue	Decimal specifying the completion value of the progress bar

Return value

String. Returns the Modify string used to set the progress bar if the function succeeds and an empty string if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_BarUpdateVisuals function (n_cst_winsrv_statusbar)

This example is from the of_SetBarPosition function:

```
...

ls_modifyexp = of_BarUpdateVisuals(ldc_completion)
li_rc = of_Modify(ls_visible + ls_modifyexp)
...
```

Created with the Personal Edition of HelpNDoc: Create Professional CHM Help Files with HelpNDoc's Easy-to-Use Tool

of_CalculateMicrohelpHeight function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3987')}
```

Description

Retrieves the environment-specific height of the MicroHelp area.

Access

Protected

Syntax

instancename.**of_CalculateMicrohelpHeight** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_CalculateMicrohelpHeight function (n_cst_winsrv_statusbar)

This example is from the of_CreateDWObject function:

```
...

li_microhelpheight = of_CalculateMicroHelpHeight()
...
```

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_CreateDWObject function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3989')}
```

Description

Creates and validates the DataWindow syntax used to create the status bar.

Access

Public

Syntax

instancename.**of_CreateDWObject** (*createstatement*, *width*, *height*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
createstatement	String into which the function places syntax for the DataWindow Create statement (passed by reference)
width	Integer into which the function places the width of the created object (passed by reference)
height	Integer into which the function places the height of the created object (passed by reference)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to create and validate the string used to create a visual element on the status bar.

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_CreateDWObject function (n_cst_winsrv_statusbar)

This example is from the w_statusbar of_CreateVisuals function:

```
...

li_rc = &
        iw_parentwindow.inv_statusbar.of_CreateDWObject &
               (ls_dwdefinition, ii_winmaxwidth, li_height)
...
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetBar function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3991')}
```

Description

Reports whether the status bar includes a progress bar.

Access

Public

Syntax

instancename.**of_GetBar** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if the status bar includes a progress bar and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetBar function (n_cst_winsrv_statusbar)

This example calls the of_GetBar function:

```
n_cst_conversion    lnv_conversion

Boolean    lb_progressbar
w_frame    lw_frame

lw_frame = gnv_app.of_GetFrame()
lb_progressbar = &
        lw_frame.inv_statusbar.of_GetBar()
MessageBox("Status Bar", &
        "Progress bar is " &
       + lnv_conversion.of_String(lb_progressbar))
```

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_GetBarDisplayStyle function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3993')}
```

Description

Retrieves the progress bar display style. The display style specifies the information that displays within the bar while tracking progress.

Access

Public

Syntax

instancename.**of_GetBarDisplayStyle** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns values as follows:

- **0 (BAR)** Progress bar only
- **1 (PCTCOMPLETE)** Progress bar and percent complete, including the percent sign
- **2 (POSITION)** Progress bar and percent complete with no percent sign

Created with the Personal Edition of HelpNDoc: Full-featured Kindle eBooks generator

of_GetBarDisplayStyle function (n_cst_winsrv_statusbar)

This example calls the of_GetBarDisplayStyle function:

```
Integer   li_style

String    ls_style[3] = &
        {"Bar", "% Complete", "Complete"}
w_frame   lw_frame

lw_frame = gnv_app.of_GetFrame()
li_style =  &
  lw_frame.inv_statusbar.of_GetBarDisplayStyle()
MessageBox("Progress Bar", &
        "Bar Style value is " &
       + String(li_style) + "-" + &
          ls_style[li_style + 1])
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_GetBarFillColor function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3995')}
```

Description

Retrieves the progress bar's current color.

Access

Public

Syntax

instancename.**of_GetBarFillColor** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the progress bar's fill color.

Created with the Personal Edition of HelpNDoc: Full-featured Documentation generator

of_GetBarFillColor function (n_cst_winsrv_statusbar)

This example calls the of_GetBarFillColor function:

```
Long   ll_color

w_frame   lw_frame

lw_frame = gnv_app.of_GetFrame()
ll_color = lw_frame.inv_statusbar.of_GetBarFillColor()
MessageBox("Progress Bar", &
        "Fill color property is " &
       + String(ll_color))
```

Created with the Personal Edition of HelpNDoc: Keep Your PDFs Safe from Unauthorized Access with These Security Measures

of_GetBarFillStyle function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3997')}
```

Description

Retrieves the progress bar's fill style.

Access

Public

Syntax

instancename.**of_GetBarFillStyle** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is

inv_statusbar)

Return value

Integer. Returns values as follows:

- **0 (LEFTRIGHT)** The progress bar fills from left to right
- **1 (RIGHTLEFT)** The progress bar fills from right to left
- **2 (TOPDOWN)** The progress bar fills from top to bottom
- **3 (BOTTOMUP)** The progress bar fills from bottom to top

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetBarFillStyle function (n_cst_winsrv_statusbar)

This example calls the of_GetBarFillStyle function:

```
Integer  li_fillstyle

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_fillstyle = &
        lw_frame.inv_statusbar.of_GetBarFillStyle()
MessageBox("Progress Bar", &
        "Fill style is " + String(li_fillstyle))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_GetBarMaximum function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_3999')}
```

Description

Retrieves the maximum increment value used by the progress bar.

Access

Public

Syntax

instancename.**of_GetBarMaximum** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the maximum increment value for the progress bar.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_GetBarMaximum function (n_cst_winsrv_statusbar)

This example calls the of_GetBarMaximum function:

```
Integer    li_max

w_frame    lw_frame

lw_frame = gnv_app.of_GetFrame()
li_max = lw_frame.inv_statusbar.of_GetBarMaximum()
MessageBox("Progress Bar", &
        "Max value is " &
              + String(li_max))
```

Created with the Personal Edition of HelpNDoc: Easy Qt Help documentation editor

of_GetBarMinimum function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4001')}
```

Description

Retrieves the minimum value from which incrementation starts.

Access

Public

Syntax

instancename.**of_GetBarMinimum** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the minimum increment value.

Created with the Personal Edition of HelpNDoc: Transform Your Help Documentation Process with a Help Authoring Tool

of_GetBarMinimum function (n_cst_winsrv_statusbar)

This example calls the of_GetBarMinimum function:

```
Integer    li_min

w_frame    lw_frame

lw_frame = gnv_app.of_GetFrame()
li_max = lw_frame.inv_statusbar.of_GetBarMinimum()
MessageBox("Progress Bar", &
        "Min value is " + String(li_min))
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetBarPctComplete function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4003')}
```

Description

Retrieves the progress bar's current percent complete.

Access

Public

Syntax

instancename.**of_GetBarPctComplete** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the current percent complete for the progress bar.

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetBarPctComplete function (n_cst_winsrv_statusbar)

This example calls the of_GetBarPctComplete function:

```
Integer   li_count, li_current

w_frame   lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBar(TRUE)
lw_frame.inv_statusbar.of_SetBarPosition(0)
For li_count = 1 to 100 STEP 1
        lw_frame.inv_statusbar.of_BarIncrement(1)
        li_current = &
               lw_frame.inv_statusbar.of_GetBarPctComplete()
        lw_frame.SetMicroHelp(String(li_current) + "%")
NEXT
lw_frame.inv_statusbar.of_SetBar(FALSE)
```

Created with the Personal Edition of HelpNDoc: Effortlessly create a professional-quality documentation website with HelpNDoc

of_GetBarPosition function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4005')}
```

Description

Retrieves the progress bar's current increment value.

Access

Public

Syntax

instancename.**of_GetBarPosition** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the current increment value for the progress bar.

Created with the Personal Edition of HelpNDoc: Streamline Your Documentation Process with a Help Authoring Tool

of_GetBarPosition function (n_cst_winsrv_statusbar)

This example calls the of_GetBarPosition function:

```
Integer   li_count, li_current

w_frame   lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBar(TRUE)
lw_frame.inv_statusbar.of_SetBarPosition(0)
For li_count = 1 to 100 STEP 1
        lw_frame.inv_statusbar.of_BarIncrement(1)
        li_current = &
               lw_frame.inv_statusbar.of_GetBarPosition()
        lw_frame.SetMicroHelp(String(li_current) + "%")
NEXT
lw_frame.inv_statusbar.of_SetBar(FALSE)
```

Created with the Personal Edition of HelpNDoc: Generate Kindle eBooks with ease

of_GetBarStep function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4007')}
```

Description

Retrieves the step value that the progress bar uses during a default increment process.

Access

Public

Syntax

instancename.**of_GetBarStep** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the step value.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_GetBarStep function (n_cst_winsrv_statusbar)

This example calls the of_GetBarStep function:

```
Integer  li_step

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_step = lw_frame.inv_statusbar.of_GetBarStep()
MessageBox("Progress Bar", &
        "Step value is " &
               + String(li_step))
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetBarTextColor function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4009')}
```

Description

Retrieves the progress bar text color.

Access

Public

Syntax

instancename.**of_GetBarTextColor** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the progress bar text color.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetBarTextColor function (n_cst_winsrv_statusbar)

This example calls the of_GetBarTextColor function:

```
Long   ll_color

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
ll_color = lw_frame.inv_statusbar.of_GetBarTextColor()
MessageBox("Progress Bar", &
        "Text color property is " + String(ll_color))
```

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetBarWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4011')}
```

Description

Retrieves the width of the progress bar area within the status bar.

Access

Public

Syntax

instancename.**of_GetBarWidth** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the width of the progress bar area.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetBarWidth function (n_cst_winsrv_statusbar)

This example calls the of_GetBarWidth function:

```
Integer    li_width

w_frame    lw_frame

lw_frame = gnv_app.of_GetFrame()
li_width = &
        lw_frame.inv_statusbar.of_GetBarWidth()
MessageBox("Status Bar", &
        "Progress bar width is " + String(li_width))
```

Created with the Personal Edition of HelpNDoc: Elevate Your Help Documentation with a Help Authoring Tool

of_GetBorderType function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4013')}
```

Description

Retrieves the default border type for new objects on the status bar.

Access

Public

Syntax

instancename.**of_GetBorderType** ( )

Argument	Description

instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the border type used when creating new objects on the status bar:

- **0** None
- **1** Shadow
- **2** Rectangle
- **3** Resize
- **4** Line
- **5** 3D lowered
- **6** 3D raised

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_GetBorderType function (n_cst_winsrv_statusbar)

This example calls the of_GetBorderType function:

```
Integer  li_border

w_frame  lw_frame
String   ls_borderstyle[] = &
        {"None", "Shadow", "Rect", "Resize", &
              "Line", "3D Lowered", "3D Raised" }

lw_frame = gnv_app.of_GetFrame()
li_border = &
        lw_frame.inv_statusbar.of_GetBorderType()
MessageBox("Status Bar", &
        "Progress bar border is " &
               + ls_borderstyle[li_border + 1])
```

Created with the Personal Edition of HelpNDoc: Easily create PDF Help documents

of_GetGapWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4015')}
```

Description

Retrieves the default between-object spacing in PBUs for new objects on the status bar.

Access

Public

Syntax

instancename.**of_GetGapWidth** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the default between-object spacing used when creating new objects on the status bar.

Created with the Personal Edition of HelpNDoc: Make your documentation accessible on any device with HelpNDoc

of_GetGapWidth function (n_cst_winsrv_statusbar)

This example calls the of_GetGapWidth function:

```
Integer  li_gapwidth

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_gapwidth = &
        lw_frame.inv_statusbar.of_GetGapWidth()
MessageBox("Status Bar", &
        "Gap width is " + String(li_gapwidth))
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_GetGDI function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4017')}
```

Description

Indicates whether GDI memory is displayed in the status bar.

Access

Public

Syntax

instancename.**of_GetGDI** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if GDI memory is displayed and FALSE if it is not.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetGDI function (n_cst_winsrv_statusbar)

This example calls the of_GetGDI function:

```
n_cst_conversion  lnv_conversion
```

```
Boolean  lb_gdi
w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lb_gdi = &
        lw_frame.inv_statusbar.of_GetGDI()
MessageBox("Status Bar", &
        "GDI display is " &
             + lnv_conversion.of_String(lb_gdi))
```

Created with the Personal Edition of HelpNDoc: Easily convert your WinHelp HLP help files to CHM with HelpNDoc's step-by-step guide

of_GetGDIThreshold function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4019')}

Description

Retrieves the current GDI threshold value.

Access

Public

Syntax

instancename.**of_GetGDIThreshold** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the current GDI threshold value.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Experience the power of a responsive website for your documentation

of_GetGDIThreshold function (n_cst_winsrv_statusbar)

This example calls the of_GetGDIThreshold function:

```
Integer  li_threshold

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_threshold = &
        lw_frame.inv_statusbar.of_GetGDIThreshold()
MessageBox("Status Bar", &
        "GDI threshold is " &
               + String(li_threshold))
```

Created with the Personal Edition of HelpNDoc: Single source CHM, PDF, DOC and HTML Help creation

of_GetMem function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4021')}

Description

Indicates whether free memory is displayed in the status bar.

Access

Public

Syntax

instancename.**of_GetMem** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if free memory is displayed and FALSE if it is not.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_GetMem function (n_cst_winsrv_statusbar)

This example calls the of_GetMem function:

```
n_cst_conversion  lnv_conversion

Boolean  lb_mem
w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lb_mem = &
        lw_frame.inv_statusbar.of_GetMem()
MessageBox("Status Bar", &
        "Free memory display is " &
               + lnv_conversion.of_String(lb_mem))
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_GetMemThreshold function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4023')}

Description

Retrieves the current free memory threshold value.

Access

Public

Syntax

instancename.**of_GetMemThreshold** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the current free memory threshold value.

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_GetMemThreshold function (n_cst_winsrv_statusbar)

This example calls the of_GetMemThreshold function:

```
Integer  li_threshold

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_threshold = &
        lw_frame.inv_statusbar.of_GetMemThreshold()
MessageBox("Status Bar", &
        "Free memory threshold is " &
               + String(li_threshold))
```

Created with the Personal Edition of HelpNDoc: Free Kindle producer

of_GetRefreshRate function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4025')}
```

Description

Retrieves the current refresh rate for all objects but the timer.

Access

Public

Syntax

instancename.**of_GetRefreshRate** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Integer. Returns the current refresh rate.

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_GetRefreshRate function (n_cst_winsrv_statusbar)

This example calls the of_GetRefreshRate function:

```
Integer  li_refresh

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_refresh = &
        lw_frame.inv_statusbar.of_GetRefreshRate()
MessageBox("Status Bar", &
        "Refresh rate is " &
               + String(li_refresh))
```

Created with the Personal Edition of HelpNDoc: Effortlessly optimize your documentation website for search engines

of_GetTimer function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4027')}
```

Description

Reports whether the time and date is displayed in the status bar.

Access

Public

Syntax

instancename.**of_GetTimer** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if time and date are displayed and FALSE if they are not.

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_GetTimer function (n_cst_winsrv_statusbar)

This example calls the of_GetTimer function:

```
n_cst_conversion  lnv_conversion

Boolean  lb_timer
w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lb_timer = &
        lw_frame.inv_statusbar.of_GetTimer()
MessageBox("Status Bar", &
        "Timer display is " &
               + lnv_conversion.of_String(lb_timer))
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Efficiency with a Help Authoring Tool

of_GetTimerInterval function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4029')}
```

Description

Retrieves the refresh rate for the timer object.

Access

Public

Syntax

instancename.**of_GetTimerInterval** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the number of milliseconds between timer refreshes.

Usage

This function applies to the timer object only. To determine the refresh rate for free memory, GDI memory, and user memory, call the of_GetRefreshRate function.

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_GetTimerInterval function (n_cst_winsrv_statusbar)

This example calls the of_GetTimerInterval function:

```
Integer  li_interval

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_interval = &
        lw_frame.inv_statusbar.of_GetTimerInterval()
MessageBox("Status Bar", &
        "Timer interval is " &
               + String(li_interval))
```

Created with the Personal Edition of HelpNDoc: Produce electronic books easily

of_GetUser function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4031')}
```

Description

Reports whether the user memory is displayed in the status bar.

Access

Public

Syntax

instancename.**of_GetUser** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if user memory is displayed and FALSE if it is not.

Usage

User memory display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Full-featured EBook editor

of_GetUser function (n_cst_winsrv_statusbar)

This example calls the of_GetUser function:

```
n_cst_conversion   lnv_conversion

Boolean  lb_user
w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lb_user = &
        lw_frame.inv_statusbar.of_GetUser()
MessageBox("Status Bar", &
        "User memory display is " &
               + lnv_conversion.of_String(lb_user))
```

Created with the Personal Edition of HelpNDoc: Generate EPub eBooks with ease

of_GetUserThreshold function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4033')}
```

Description

Retrieves the current user memory threshold value.

Access

Public

Syntax

instancename.**of_GetUserThreshold** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Long. Returns the current user memory threshold value.

Usage

User memory display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Converting Word Docs to eBooks Made Easy with HelpNDoc

of_GetUserThreshold function (n_cst_winsrv_statusbar)

This example calls the of_GetUserThreshold function:

```
Integer  li_threshold

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_threshold = &
        lw_frame.inv_statusbar.of_GetUserThreshold()
MessageBox("Status Bar", &
        "User memory threshold is " &
              + String(li_threshold))
```

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_IsBarAutoReset function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4035')}

Description

Reports whether the progress bar returns to zero after it reaches the maximum value.

Access

Public

Syntax

instancename.**of_IsBarAutoReset** ( )

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)

Return value

Boolean. Returns TRUE if n_cst_winsrv_statusbar clears the progress bar when it reaches 100% and FALSE if it does not.

Created with the Personal Edition of HelpNDoc: Transform Your Word Document into a Professional eBook with HelpNDoc

of_IsBarAutoReset function (n_cst_winsrv_statusbar)

This example calls the of_IsBarAutoReset function:

```
n_cst_conversion  lnv_conversion

Boolean  lb_autoclear
w_frame  lw_frame
```

```
lw_frame = gnv_app.of_GetFrame()
lb_autoclear = &
        lw_frame.inv_statusbar.of_IsBarAutoReset()
MessageBox("Progress Bar", &
        "Autoclear property is " &
               + lnv_conversion.of_String(lb_autoclear))
```

Created with the Personal Edition of HelpNDoc: 5 Reasons Why a Help Authoring Tool is Better than Microsoft Word for Documentation

of_IsPredefined function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4037')}
```

Description

Determines whether the specified argument is a predefined ID. N_cst_winsrv_statusbar uses predefined IDs for GDI memory, free memory, user memory, the time, and the progress bar.

Access

Protected

Syntax

instancename.**of_IsPredefined** (*id*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String containing the ID to be tested

Return value

Boolean. Returns TRUE if *id* is one of the predefined IDs and FALSE if it is not.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Easily create iPhone documentation

of_IsPredefined function (n_cst_winsrv_statusbar)

This example is from the of_RegisterPredefined function:

```
...

IF NOT of_IsPredefined(Trim(as_id)) THEN
        Return -1
END IF
...
```

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_Modify function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4039')}
```

Description

Modifies the display of a user-defined status bar object.

Access

Public

Syntax

instancename.**of_Modify** (*id*, *newvalue*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	Either of the following: • String containing the identifier specified in the of_Register function that created the status bar object • String containing a modify expression to be used on the modification of the object
newvalue	String containing either the new text or a bitmap filename. Do not specify this argument if *id* contains a modify expression

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Full-featured Help generator

of_Modify function (n_cst_winsrv_statusbar)

This example is from the of_SetBarPosition function:

```
...

ls_modifyexp = of_BarUpdateVisuals(ldc_completion)
li_rc = of_Modify(ls_visible + ls_modifyexp)
...
```

Created with the Personal Edition of HelpNDoc: Effortlessly Edit and Export Markdown Documents

of_Open function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4041')}
```

Description

Opens or closes the w_statusbar window.

Access

Public

Syntax

instancename.**of_Open** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean indicating whether to open (TRUE) or close (FALSE) the w_statusbar window

Return value

Integer. Returns 1 if the function succeeds, 0 if no action was taken, and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free CHM Help documentation generator

of_Open function (n_cst_winsrv_statusbar)

This example is from the w_frame pfc_PostOpen event:

```
IF IsValid (inv_statusbar) THEN

        inv_statusbar.of_Open(TRUE)
END IF
```

Created with the Personal Edition of HelpNDoc: Easily create HTML Help documents

of_Register function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4043')}
```

Description

Registers and displays a new status bar object.

Access

Public

Syntax

instancename.**of_Register** (*id*, *type*, *value*, *width* {, *bordertype* {, *gapwidth* } })

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String specifying a unique identifier for the status bar object
type	String specifying whether the object displays text or a bitmap. Valid values are: • text • bitmap
value	String specifying either the display text or bitmap name for the object
width	Integer specifying object width, in PBUs
bordertype (optional)	Integer specifying the border type. Values are: • 0 None • 1 Shadow • 2 Rectangle • 3 Resize • 4 Line • 5 3D Lowered (default) • 6 3D Raised
gapwidth (optional)	Integer specifying the number of PBUs between this object and other objects. The default is 15

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with a Help Authoring Tool

of_Register function (n_cst_winsrv_statusbar)

This example from a frame Open event calls the of_Register function to enable a popup calculator:

```
...

this.inv_statusbar.of_Register &
        ("calc", "text", "Calculator", 300)
...
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_RegisterPredefined function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4045')}
```

Description

Registers one of the predefined objects:

Timer

GDI memory

User memory

Free memory

Progress bar

Access

Protected

Syntax

instancename.**of_RegisterPredefined** (*id*, *width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String specifying one of the following: • **Pfc_timer** Time and date • **Pfc_gdi** GDI memory • **Pfc_user** User memory • **Pfc_mem** Free memory • **Pfc_progress** Progress bar
width	Integer specifying the object's width, in PBUs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_RegisterPredefined function (n_cst_winsrv_statusbar)

This example is from the of_SetUser function:

```
...

IF ib_user THEN
        li_rc = of_RegisterPreDefined &
               ('pfc_user', ii_userwidth)
ELSE
        li_rc = of_UnRegisterPreDefined('pfc_user')
END IF
Return li_rc
```

Created with the Personal Edition of HelpNDoc: Revolutionize your documentation process with HelpNDoc's online capabilities

of_RestoreFocusPoint function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4047')}
```

Description

Sets focus to the specified control.

Access

Protected

Syntax

instancename.**of_RestoreFocusPoint** (*control*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
control	GraphicObject referencing the control to which focus is set. If *control* is invalid, the function returns focus to the parent window

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: News and information about help authoring tools and software

of_RestoreFocusPoint function (n_cst_winsrv_statusbar)

This example is from the of_Open function:

```
...

IF ab_switch THEN
```

```
        lgo_withfocus = GetFocus()
        li_rc = Open(iw_statusbar, iw_requestor)
        of_RestoreFocusPoint(lgo_withfocus)
        IF IsValid(iw_statusbar) THEN
                iw_statusbar.of_SetRefreshRate(ii_refreshrate)
        END IF
...
```

Created with the Personal Edition of HelpNDoc: Easily create EBooks

of_SetBar function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4049')}
```

Description

Enables the display of the progress bar in the status bar.

Access

Public

Syntax

instancename.**of_SetBar** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to display the progress bar in the status bar (TRUE) or remove the progress bar from the status bar (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_SetBar function (n_cst_winsrv_statusbar)

This example calls the of_SetBar function:

```
Integer  li_count, li_current

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBar(TRUE)
lw_frame.inv_statusbar.of_SetBarPosition(0)
For li_count = 1 to 100 STEP 1
        lw_frame.inv_statusbar.of_BarIncrement(1)
        li_current = &
                lw_frame.inv_statusbar.of_GetBarPosition()
        lw_frame.SetMicroHelp(String(li_current) + "%")
NEXT
lw_frame.inv_statusbar.of_SetBar(FALSE)
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetBarAutoReset function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4051')}
```

Description

Specifies whether to clear the progress bar when it reaches 100%.

Access

Public

Syntax

instancename.**of_SetBarAutoReset** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to clear the status bar when it reaches 100% (TRUE) or leave it visible (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Write EPub books for the iPad

of_SetBarAutoReset function (n_cst_winsrv_statusbar)

This example calls the of_SetBarAutoReset function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarAutoReset(FALSE)
```

Created with the Personal Edition of HelpNDoc: How to Protect Your PDFs with Encryption and Passwords

of_SetBarDisplayStyle function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4053')}
```

Description

Establishes a display style for the progress bar.

Access

Public

Syntax

instancename.**of_SetBarDisplayStyle** (*displaystyle*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
displaystyle	Integer or n_cst_winsrv_statusbar constant specifying the progress bar

display style:

- **0 or BAR (default)** Bar only, no text
- **1 or PCTCOMPLETE** Bar displays percent complete, including the percent sign
- **2 or POSITION** Bar displays percent complete with no percent sign

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy to use tool to create HTML Help files and Help web sites

of_SetBarDisplayStyle function (n_cst_winsrv_statusbar)

This example calls the of_SetBarDisplayStyle function:

```
...

this.inv_statusbar.of_Register &
        ("calc", "text", "Calculator", 300)
this.inv_statusbar.of_SetBar(TRUE)
this.inv_statusbar.of_SetTimer(TRUE)
this.inv_statusbar.of_SetBarDisplayStyle &
        (this.inv_statusbar.PCTCOMPLETE)
...
```

Created with the Personal Edition of HelpNDoc: Powerful and User-Friendly Help Authoring Tool for Markdown Documents

of_SetBarFillColor function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4055')}
```

Description

Specifies the progress bar color.

Access

Public

Syntax

instancename.**of_SetBarFillColor** (*color*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
color	Long specifying progress bar color

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with HelpNDoc's Clean and Efficient User Interface

of_SetBarFillColor function (n_cst_winsrv_statusbar)

This example calls the of_SetBarFillColor function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarFillColor &
        (RGB(255, 0, 0))
```

Created with the Personal Edition of HelpNDoc: Simplify Your Help Documentation Process with a Help Authoring Tool

of_SetBarFillStyle function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4057')}
```

Description

Establishes a fill style for the progress bar.

Access

Public

Syntax

instancename.**of_SetBarFillStyle** (*style*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
style	Integer or n_cst_winsrv_statusbar constant specifying the fill style: • **0 or TOPDOWN** The bar fills from top to bottom • **1 or BOTTOMUP** The bar fills from bottom to top • **2 or LEFTRIGHT (default)** The bar fills from left to right • **3 or RIGHTLEFT** The bar fills from right to left

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Upgrade Your Documentation Process with a Help Authoring Tool

of_SetBarFillStyle function (n_cst_winsrv_statusbar)

This example calls the of_SetBarFillStyle function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarFillStyle &
        (lw_frame.inv_statusbar.RIGHTLEFT)
```

Created with the Personal Edition of HelpNDoc: Effortlessly upgrade your WinHelp HLP help files to CHM with HelpNDoc

of_SetBarMaximum function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4059')}
```

Description

Sets the maximum increment value. The progress bar uses this value as the basis for its percent complete calculation.

Access

Public

Syntax

instancename.**of_SetBarMaximum** (*maximum*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
maximum	Integer specifying the maximum increment value (the default is 100)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The of_BarIncrement function uses this value as the dividend in its percent complete calculation (percent complete = current position/maximum).

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetBarMaximum function (n_cst_winsrv_statusbar)

This example calls the of_SetBarMaximum function:

```
...

lw_frame = gnv_app.of_GetFrame()
li_max = 80
lw_frame.inv_statusbar.of_SetBarMaximum(li_max)
...
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetBarMinimum function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4061')}
```

Description

Sets the maximum increment value. The progress bar uses this value as the basis for its percent complete calculation.

Access

Public

Syntax

instancename.**of_SetBarMinimum** (*maximum*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
maximum	Integer specifying the maximum increment value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The default for this value is 100. The of_BarIncrement function uses this value as the dividend in its percent complete calculation (percent complete = current position/maximum).

Created with the Personal Edition of HelpNDoc: Make Documentation a Breeze with a Help Authoring Tool

of_SetBarMinimum function (n_cst_winsrv_statusbar)

This example calls the of_SetBarMinimum function:

```
...

lw_frame = gnv_app.of_GetFrame()
li_max = 80
lw_frame.inv_statusbar.of_SetBarMinimum(li_max)
...
```

Created with the Personal Edition of HelpNDoc: Easily create CHM Help documents

of_SetBarOffsetX function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4063')}
```

Description

Specifies a new *x* offset for the progress bar.

Access

Public

Syntax

instancename.**of_SetBarOffsetX** (*offset*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
offset	Integer specifying an *x* offset for the progress bar, in PBUs (the default is 10 PBUs)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Experience the Power and Ease of Use of HelpNDoc for CHM Help File Generation

of_SetBarOffsetX function (n_cst_winsrv_statusbar)

This example calls the of_SetBarOffsetX function:

```
...

this.inv_statusbar.of_SetBarOffSetX(20)
this.inv_statusbar.of_SetBarOffSetY(15)
...
```

Created with the Personal Edition of HelpNDoc: Converting Word Documents to eBooks: A Step-by-Step Guide with HelpNDoc

of_SetBarOffsetY function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4065')}
```

Description

Specifies a new *y* offset for the progress bar.

Access

Public

Syntax

instancename.**of_SetBarOffsetY** (*offset*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
offset	Integer specifying a *y* offset for the progress bar, in PBUs (the default is 7 PBUs)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Leave the tedious WinHelp HLP to CHM conversion process behind with HelpNDoc

of_SetBarOffsetY function (n_cst_winsrv_statusbar)

This example calls the of_SetBarOffsetY function:

```
...

this.inv_statusbar.of_SetBarOffSetX(20)
this.inv_statusbar.of_SetBarOffSetY(15)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetBarPosition function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4067')}
```

Description

Specifies the progress bar's current position.

Access

Public

Syntax

instancename.**of_SetBarPosition** (*position*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
position	Integer specifying the progress bar position

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Call this function to establish an initial position for the progress bar before beginning an incrementation process. If *position* is less than 0, this function sets the position to the minimum. If *position* is greater than the maximum (the default maximum is 100), this function sets the position to the maximum. You modify the default maximum by calling the of_SetBarMaximumimum function.

Created with the Personal Edition of HelpNDoc: Free HTML Help documentation generator

of_SetBarPosition function (n_cst_winsrv_statusbar)

This example calls the of_SetBarPosition function:

```
Integer  li_count

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarPosition(0)
For li_count = 1 to 100 STEP 1
        lw_frame.inv_statusbar.of_BarIncrement(1)))
NEXT
```

Created with the Personal Edition of HelpNDoc: Maximize Your CHM Help File Capabilities with HelpNDoc

of_SetBarStep function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4069')}
```

Description

Specifies the step value that the progress bar uses during a default increment process.

Access

Public

Syntax

instancename.**of_SetBarStep** (*stepvalue*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar
stepvalue	Integer specifying the default increment value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

The progress bar uses this value as the default when you call of_BarIncrement with no arguments.

Created with the Personal Edition of HelpNDoc: Experience a User-Friendly Interface with HelpNDoc's Documentation Tool

of_SetBarStep function (n_cst_winsrv_statusbar)

This example calls the of_SetBarStep function:

```
Integer  li_return

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarStep(5)
```

Created with the Personal Edition of HelpNDoc: Easily create EPub books

of_SetBarTextColor function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4071')}
```

Description

Specifies the progress bar's color.

Access

Public

Syntax

instancename.**of_SetBarTextColor** (*color*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
color	Long specifying progress bar color

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Effortlessly Create Encrypted, Password-Protected PDFs

of_SetBarTextColor function (n_cst_winsrv_statusbar)

This example calls the of_SetBarTextColor function:

```
w_frame  lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarTextColor &
        (RGB(255, 0, 0))
```

Created with the Personal Edition of HelpNDoc: Full-featured multi-format Help generator

of_SetBarWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4073')}
```

Description

Specifies a new width for the progress bar.

Access

Public

Syntax

instancename.**of_SetBarWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying a new progress bar width, in PBUs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Revolutionize Your Documentation Output with HelpNDoc's Stunning User Interface

of_SetBarWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetBarWidth function:

```
w_frame  lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBarWidth(300)
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetBorderType function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4075')}
```

Description

Specifies the default border type for new objects on the status bar.

Access

Public

Syntax

instancename.**of_SetBorderType** (*bordertype*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
bordertype	Integer specifying the border type. Values are: • 0 None • 1 Shadow • 2 Rectangle • 3 Resize • 4 Line • 5 3D lowered • 6 3D raised

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easily create Help documents

of_SetBorderType function (n_cst_winsrv_statusbar)

This example calls the of_SetBorderType function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetBorderType(6)
lw_frame.inv_statusbar.of_Register &
        ("calc", "text", "Calculator", 300)
```

Created with the Personal Edition of HelpNDoc: Create HTML Help, DOC, PDF and print manuals from 1 single source

of_SetGapWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4077')}
```

Description

Specifies the default between-object spacing for new objects on the status bar.

Access

Public

Syntax

instancename.**of_SetGapWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying the default between-object spacing for new status bar objects, in PBUs

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free EBook and documentation generator

of_SetGapWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetGapWidth function:

```
...

this.inv_statusbar.of_SetGapWidth(20)
...
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetGDI function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4079')}
```

Description

Controls the display of GDI memory in the status bar.

Access

Public

Syntax

instancename.**of_SetGDI** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to display GDI memory in the status bar (TRUE) or remove GDI memory from the status bar (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Effortlessly Convert Your Word Doc to an eBook: A Step-by-Step Guide

of_SetGDI function (n_cst_winsrv_statusbar)

This example calls the of_SetGDI function:

```
w_frame.inv_statusbar.of_SetGDI(TRUE)
```

Created with the Personal Edition of HelpNDoc: Upgrade your help files and your workflow with HelpNDoc's WinHelp HLP to CHM conversion

of_SetGDIThreshold function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4081')}

Description

Establishes a new GDI memory threshold value. The w_statusbar window displays GDI memory in a different color when it goes below the threshold value.

Access

Public

Syntax

instancename.**of_SetGDIThreshold** (*threshold*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
threshold	Long specifying the GDI memory threshold value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetGDIThreshold function (n_cst_winsrv_statusbar)

This example calls the of_SetGDIThreshold function:

```
Integer   li_threshold

w_frame  lw_frame

lw_frame = gnv_app.of_GetFrame()
li_threshold = &
        lw_frame.inv_statusbar.of_GetGDIThreshold()
MessageBox("Status Bar", &
        "GDI memory threshold is " &
```

```
+ String(li_threshold))
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_SetGDIWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4083')}
```

Description

Specifies the width for GDI display.

Access

Public

Syntax

instancename.**of_SetGDIWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying the width, in PBUs, for GDI memory display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Free help authoring tool

of_SetGDIWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetGDIWidth function:

```
w_frame    lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetGDIWidth(300)
```

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_SetMem function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4085')}
```

Description

Controls the display of free memory in the status bar.

Access

Public

Syntax

instancename.**of_SetMem** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to display free memory in the status bar (TRUE) or remove free memory from the status bar (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Produce online help for Qt applications

of_SetMem function (n_cst_winsrv_statusbar)

This example calls the of_SetMem function:

```
w_frame.inv_statusbar.of_SetMem(TRUE)
```

Created with the Personal Edition of HelpNDoc: Save time and frustration with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetMemThreshold function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4087')}

Description

Establishes a new free memory threshold value. The w_statusbar window displays free memory in a different color when it goes below the threshold value.

Access

Public

Syntax

instancename.**of_SetMemThreshold** (*threshold*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
threshold	Long specifying the free memory threshold value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Free Qt Help documentation generator

of_SetMemThreshold function (n_cst_winsrv_statusbar)

This example calls the of_SetMemThreshold function:

```
w_frame   lw_frame
```

```
lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetMemThreshold &
        (12000000)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Output with HelpNDoc's Advanced Project Analyzer

of_SetMemWidth function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4089')}

Description

Specifies the width for free memory display.

Access

Public

Syntax

instancename.**of_SetMemWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying the width, in PBUs, for free memory display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_SetMemWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetMemWidth function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetMemWidth(300)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's Project Analyzer

of_SetRefreshRate function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4091')}

Description

Sets a new refresh rate for free memory, GDI memory, and user memory.

Access

Public

Syntax

instancename.**of_SetRefreshRate** (*refreshinterval*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
refreshinterval	Integer specifying the number of seconds between refreshes

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Benefits of a Help Authoring Tool

of_SetRefreshRate function (n_cst_winsrv_statusbar)

This example calls the of_SetRefreshRate function:

```
w_frame    lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetRefreshRate(30)
```

Created with the Personal Edition of HelpNDoc: Keep Your Sensitive PDFs Safe with These Easy Security Measures

of_SetTimer function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4093')}
```

Description

Enables the display of the date and time in the status bar.

Access

Public

Syntax

instancename.**of_SetTimer** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to display the date and time in the status bar (TRUE) or remove date and time display from the status bar (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

You customize date and time display format by calling the of_SetTimerFormat function.

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's WinHelp HLP to CHM conversion feature

of_SetTimer function (n_cst_winsrv_statusbar)

This example calls the of_SetTimer function:

```
w_frame.inv_statusbar.of_SetTimer(TRUE)
```

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with HelpNDoc's Efficient User Interface

of_SetTimerFormat function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4095')}

Description

Specifies a new date and time format for the timer object.

Access

Public

Syntax

instancename.**of_SetTimerFormat** (*format*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
format	String specifying the new date and time format. Sample formats include *mm/dd/yy h:mm:ss*, and *mmm dd, yyyy hh:mm:ss AM/PM*

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your PDF Protection with These Simple Steps

of_SetTimerFormat function (n_cst_winsrv_statusbar)

This example calls the of_SetTimerFormat function:

```
w_frame  lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetTimerInterval(60000)
lw_frame.inv_statusbar.of_SetTimerWidth(650)
lw_frame.inv_statusbar.of_SetTimerFormat &
        ("mmm dd, yyyy hh:mm AM/PM")
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_SetTimerInterval function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4097')}
```

Description

Specifies a new refresh rate for the timer object.

Access

Public

Syntax

instancename.**of_SetTimerInterval** (*interval*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
interval	Long specifying the number of milliseconds between timer refreshes (the default refresh rate is 1000 milliseconds)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

This function applies to the timer object only. To update the refresh rate for free memory, GDI memory, and user memory, call the of_SetRefreshRate function.

Created with the Personal Edition of HelpNDoc: Protect Your Confidential PDFs with These Simple Security Measures

of_SetTimerInterval function (n_cst_winsrv_statusbar)

This example calls the of_SetTimerInterval function:

```
w_frame  lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetTimerInterval(60000)
lw_frame.inv_statusbar.of_SetTimerWidth(650)
lw_frame.inv_statusbar.of_SetTimerFormat &
        ("mmm dd, yyyy hh:mm AM/PM")
```

Created with the Personal Edition of HelpNDoc: Free EPub and documentation generator

of_SetTimerWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4099')}
```

Description

Specifies the width for the timer.

Access

Public

Syntax

instancename.**of_SetTimerWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying the width, in PBUs, for timer display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Import and export Markdown documents

of_SetTimerWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetTimerWidth function:

```
w_frame    lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetTimerInterval(60000)
lw_frame.inv_statusbar.of_SetTimerWidth(650)
lw_frame.inv_statusbar.of_SetTimerFormat &
        "mmm dd, yyyy hh:mm AM/PM")
```

Created with the Personal Edition of HelpNDoc: Streamline your documentation process with HelpNDoc's HTML5 template

of_SetUser function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4101')}
```

Description

Enables the display of user memory in the status bar.

Access

Public

Syntax

instancename.**of_SetUser** (*boolean*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
boolean	Boolean specifying whether to display user memory in the status bar (TRUE) or remove user memory from the status bar (FALSE)

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

User memory display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Free PDF documentation generator

of_SetUser function (n_cst_winsrv_statusbar)

This example calls the of_SetUser function:

```
w_frame.inv_statusbar.of_SetUser(TRUE)
```

Created with the Personal Edition of HelpNDoc: Transform your help documentation into a stunning website

of_SetUserThreshold function (n_cst_winsrv_statusbar)

{button Object,JI(`>main',`caicjhac')} {button Examples,JI(`>Examples',`id_pfcoref_4103')}

Description

Establishes a new user memory threshold value. The w_statusbar window displays user memory in a different color when it goes below the threshold value.

Access

Public

Syntax

instancename.**of_SetUserThreshold** (*threshold*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
threshold	Long specifying the user memory threshold value

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

GDI display is not available in 32-bit Windows.

Created with the Personal Edition of HelpNDoc: Create cross-platform Qt Help files

of_SetUserThreshold function (n_cst_winsrv_statusbar)

This example calls the of_SetUserThreshold function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetUserThreshold &
        (12000000)
```

Created with the Personal Edition of HelpNDoc: Elevate Your Documentation with HelpNDoc's Project Analyzer Features

of_SetUserWidth function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4105')}
```

Description

Specifies the width for user memory display.

Access

Public

Syntax

instancename.**of_SetUserWidth** (*width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
width	Integer specifying the width, in PBUs, for user memory display

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Created with the Personal Edition of HelpNDoc: Maximize Your Productivity with a Help Authoring Tool

of_SetUserWidth function (n_cst_winsrv_statusbar)

This example calls the of_SetUserWidth function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_SetUserWidth(300)
```

Created with the Personal Edition of HelpNDoc: Make Your PDFs More Secure with Encryption and Password Protection

of_UnRegister function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4107')}
```

Description

Removes a user-defined status bar object from the w_statusbar display.

Access

Public

Syntax

instancename.**of_UnRegister** (*id*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String specifying the ID of the user-defined object to remove from the status bar. This is the ID specified in the of_Register function

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

To remove predefined objects, call the appropriate of_Set function (of_SetGDI, of_SetMem, and so on) passing an argument of FALSE.

Created with the Personal Edition of HelpNDoc: Easy EPub and documentation editor

of_UnRegister function (n_cst_winsrv_statusbar)

This example calls the of_UnRegister function:

```
w_frame   lw_frame


lw_frame = gnv_app.of_GetFrame()
lw_frame.inv_statusbar.of_UnRegister("calc")
```

Created with the Personal Edition of HelpNDoc: Eliminate the Struggles of Documentation with a Help Authoring Tool

of_UnRegisterPredefined function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4109')}
```

Description

Unregisters a predefined status bar object.

Access

Protected

Syntax

instancename.**of_UnRegisterPredefined** (*id*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String specifying one of the following. Values are: • **Pfc_timer** Timer • **Pfc_gdi** GDI memory • **Pfc_user** User memory • **Pfc_mem** Free memory • **Pfc_progress** Progress bar

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Free iPhone documentation generator

of_UnRegisterPredefined function (n_cst_winsrv_statusbar)

This example is from the of_SetMem function:

```
...

IF ib_mem THEN
        li_rc = of_RegisterPreDefined &
               ('pfc_mem', ii_memwidth)
ELSE
        li_rc = of_UnRegisterPreDefined('pfc_mem')
END IF
Return li_rc
```

Created with the Personal Edition of HelpNDoc: What is a Help Authoring tool?

of_UpdatePredefined function (n_cst_winsrv_statusbar)

```
{button Object,JI(`>main',`caicjhac')} {button
Examples,JI(`>Examples',`id_pfcoref_4111')}
```

Description

Updates a registered predefined status bar object.

Access

Public

Syntax

instancename.**of_UpdatePredefined** (*id*, *width*)

Argument	Description
instancename	Instance name of n_cst_winsrv_statusbar (the w_frame default is inv_statusbar)
id	String specifying one of the following. Values are: • **Pfc_timer** Timer • **Pfc_gdi** GDI memory • **Pfc_user** User memory • **Pfc_mem** Free memory • **Pfc_progress** Progress bar
width	Integer specifying a new width for the object

Return value

Integer. Returns 1 if the function succeeds and -1 if an error occurs.

Usage

Internal.

Created with the Personal Edition of HelpNDoc: Transform Your CHM Help File Creation Process with HelpNDoc

of_UpdatePredefined function (n_cst_winsrv_statusbar)

This example is from the of_SetUserWidth function:

```
IF IsNull(ai_width) Or ai_width < 0 THEN

        Return -1
END IF
ii_userwidth = ai_width
of_UpdatePreDefined('pfc_user', ai_width)
Return
```

Created with the Personal Edition of HelpNDoc: Maximize Your Documentation Capabilities with HelpNDoc's User-Friendly UI