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Subject: Dispatch

Posted by [Helder Marchetto](#) on Fri, 28 Sep 2012 11:45:05 GMT

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Hi,  
I'm trying to test a call to a COM object and I'm finding out that life is not as easy as it might seem.  
First problem is:  
If I call the following line:  
IDL\_Object = OBJ\_NEW('IDLCOMIDispatch\$PROGID\$RSIDemoComponent.RSIDemoObj1 ')  
inside a procedure in IDL 8.2 (32-bit) I get the desired object. I'm actually running IDispatchDemo  
demo of IDL.

If I call the same inside a widget application, I get a limited result with only two objects being  
displayed. Here is the output that is put in a text widget containing executed command (using  
CALL\_FUNCTION()), output of the help on the object and the IDL version:

```
ExecutedCommand> IDL_Object =  
OBJ_NEW('IDLCOMIDispatch$PROGID$RSIDemoComponent.RSIDemoObj1 ')
```

```
** Object class IDLCOMIDISPATCH$PROGID$RSIDEMOCOMPONENT.RSIDEMOOBJ1, 1  
direct superclass, 2 known methods
```

```
Superclasses:
```

```
    IDLCOMIDISPATCH <Direct>
```

```
Known Function Methods:
```

```
    IDLCOMIDISPATCH$PROGID$RSIDEMOCOMPONENT.RSIDEMOOBJ1::INIT
```

```
Known Procedure Methods:
```

```
    IDLCOMIDISPATCH$PROGID$RSIDEMOCOMPONENT.RSIDEMOOBJ1::CLEANUP
```

```
** Structure !VERSION, 8 tags, length=76, data length=76:
```

```
ARCH      STRING  'x86'  
OS        STRING  'Win32'  
OS_FAMILY  STRING  'Windows'  
OS_NAME    STRING  'Microsoft Windows'  
RELEASE    STRING  '8.2'  
BUILD_DATE  STRING  'Apr 10 2012'  
MEMORY_BITS  INT      32  
FILE_OFFSET_BITS  
            INT      64
```

Below is the code I used to test this. Before you can get it to work, you have to make sure you  
installed the RSIDemoComponent.dll (the instructions are on page 23 of the bridges.pdf in the  
help directory).

If I run the code below I get the results shown above. If I run the first line of IDispatchDemo.pro I  
get all the methods displayed.

Anybody have a clue why this is working differently?

Cheers,

Helder

```
pro TestUviewConnection_ExecuteCommand, Event
```

```
  Catch, theError
```

```
  IF theError NE 0 THEN BEGIN
```

```
    Catch, Cancel=1
```

```
    Help, /Last_Message, Output=traceback
```

```
    WIDGET_CONTROL, info.wResult, SET_VALUE = traceback, /APPEND
```

```
    BEEP
```

```
    RETURN
```

```
  ENDIF
```

```
WIDGET_CONTROL, Event.top, Get_UValue=info
```

```
WIDGET_CONTROL, info.wTextInput, GET_VALUE=InputString
```

```
ExecutedCommand = 'ExecutedCommand> IDL_Object = OBJ_NEW('"+InputString+"')
```

```
WIDGET_CONTROL, info.wResult, SET_VALUE = ExecutedCommand
```

```
IDL_Object = CALL_FUNCTION('OBJ_NEW',InputString)
```

```
ExecutedCommand = 'ExecutedCommand> IDL_Object = OBJ_NEW('"+InputString+"')
```

```
HELP, IDL_Object, /OBJECTS, OUTPUT=HelpResult
```

```
OBJ_DESTROY, IDL_Object
```

```
HELP, !version, OUTPUT=VersionHelpResult
```

```
ResultText = [ExecutedCommand,",HelpResult,",VersionHelpResult]
```

```
WIDGET_CONTROL, info.wResult, SET_VALUE = ResultText
```

```
end
```

```
pro TestUviewConnection_event, Event
```

```
  wTarget = (widget_info(Event.id,/NAME) eq 'TREE' ? $
```

```
    widget_info(Event.id, /tree_root) : event.id)
```

```
  wWidget = Event.top
```

```
  case wTarget of
```

```
    Widget_Info(wWidget, FIND_BY_UNAME='ExecuteButton'): $
```

```
      if( Tag_Names(Event, /STRUCTURE_NAME) eq 'WIDGET_BUTTON' ) then
```

```
TestUviewConnection_ExecuteCommand, Event
```

```
    Widget_Info(wWidget, FIND_BY_UNAME='TextInput'): $
```

```
      if( Tag_Names(Event, /STRUCTURE_NAME) eq 'WIDGET_TEXT_CH' ) then
```

```
TestUviewConnection_ExecuteCommand, Event
```

```
      ELSE: PRINT, 'Nothing to do'
```

```
    endcase
```

```
  end
```

```
PRO TestUviewConnection
```

```

wBase    = WIDGET_BASE(TITLE='Test Connection', /COLUMN, XPAD=10, YPAD=5,
UVALUE=info)
LabelVal = ['Examples:',$
            'IDLCOMIDispatch$PROGID$RSIDemoComponent.RSIDemoObj1',$
            'IDLCOMIDispatch$CLSID$08FB8C19_5C78_4EF5_99B4_9EA009552A33' ,$
            ",$
            'Either use IDLCOMIDispatch$PROGID$... or IDLCOMIDispatch$CLSID$...']
wLabelEx = WIDGET_TEXT( wBase, XSIZE=100, YSIZE=8, UNAME='TextExample',
VALUE=LabelVal)
wTextInput = WIDGET_TEXT( wBase, /EDITABLE, XSIZE=100, UNAME='TextInput',
VALUE='IDLCOMIDispatch$PROGID$RSIDemoComponent.RSIDemoObj1')
wButton    = WIDGET_BUTTON(wBase, VALUE='Execute',UNAME='ExecuteButton')
wResult    = WIDGET_TEXT( wBase, EDITABLE=0, YSIZE=40, UNAME='TextOutput', VALUE="",
/SCROLL)
info = {wBase:wBase      ,$
        wTextInput:wTextInput,$
        wButton:wButton  ,$
        wResult:wResult}

WIDGET_CONTROL, wBase, /REALIZE
WIDGET_CONTROL, wBase, SET_UVALUE=info, /No_Copy
XMANAGER, 'TestUviewConnection', wBase, $
        EVENT_HANDLER = 'TestUviewConnection_event', $
        /NO_BLOCK
RETURN

END

```

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