
Subject: Re: Properties

Posted by [David Fanning](#) on Fri, 12 Dec 2003 22:07:31 GMT

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JD Smith writes:

```
> OK, I'm trying to hijack the new Properties capabilities of iTools for
> my own devious purposes, and I've managed whip up this test:
>
> pro TestProps::Config
>   b=widget_base(/COLUMN)
>   ; Create and initialize the component.
>   p=widget_propertySheet(b,VALUE=self)
>   widget_control,b,SET_UVALUE=self,/REALIZE
>   XManager,'TestPropsPropertySheet',b,/NO_BLOCK
> end
>
> function TestProps::Init
>   if self->IDLitComponent::Init(NAME='TestProps') eq 0 then return,0
>   self->RegisterProperty,'MY_FIRST_PROPERTY',/BOOLEAN, $
>       NAME='Propertus Incipiens'
>   return,1
> end
>
> pro TestProps__define
>   st={TestProps, $
>       INHERITS IDLitComponent, $
>       data:0}
> end
>
> Sadly enough, here's what happens:
>
> IDL> a=obj_new('testprops')
> IDL> a->Config
> % Keyword MY_FIRST_PROPERTY not allowed in call to: WIDGET_PROPERTYSHEET
> % Execution halted at: TESTPROPS::CONFIG   5
>   /home/jdsmith/idl/irs_cubism/cubism/cube/testprops__define.p ro
> %                               $MAIN$
>
> I'm really not sure how a property ID is getting transformed into a
> keyword in this call... sounds like some internal _EXTRA hi-jinx to
> me. What ingredient am I missing?
```

What you are missing are GetProperty and SetProperty methods that allow use of the keyword MY_FIRST_PROPERTY. Add those, and you will be in business! :-)

These are required because this is how IDLitComponent can

get and set values, as needed.

Cheers,

David

--

David W. Fanning, Ph.D.

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>

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Subject: Re: Properties

Posted by [David Fanning](#) on Fri, 12 Dec 2003 22:13:44 GMT

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David Fanning writes:

- > What you are missing are GetProperty and SetProperty methods
- > that allow use of the keyword MY_FIRST_PROPERTY. Add those,
- > and you will be in business! :-)

Be sure, by the way, to call the IDLitComponent superclass
GetProperty and SetProperty methods from within your own!
This means the GetProperty method will probably need a
_REF_EXTRA keyword.

Sheesh! Doesn't this stuff get deep quickly! :-(

Like this:

```
PRO TestProps, MY_FIRST_PROPERTY=my_first_property, _Ref_Extra=extra
    my_first_property = self.data
    self -> IDLitComponent::GetProperty, _Extra=extra
END
```

Cheers,

David

--

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Subject: Re: Properties

Posted by [JD Smith](#) on Sat, 13 Dec 2003 01:24:54 GMT

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On Fri, 12 Dec 2003 15:13:44 -0700, David Fanning wrote:

> David Fanning writes:

>

>> What you are missing are GetProperty and SetProperty methods that allow
>> use of the keyword MY_FIRST_PROPERTY. Add those, and you will be in
>> business! :-)

>

> Be sure, by the way, to call the IDLitComponent superclass GetProperty
> and SetProperty methods from within your own! This means the GetProperty
> method will probably need a _REF_EXTRA keyword.

>

> Sheesh! Doesn't this stuff get deep quickly! :-(

>

> Like this:

>

```
> PRO TestProps, MY_FIRST_PROPERTY=my_first_property, _Ref_Extra=extra  
>   my_first_property = self.data  
>   self -> IDLitComponent::GetProperty, _Extra=extra  
> END
```

>

>

Thanks David. And, to my utter and complete surprise, you actually have a
to implement the getting and setting of a property via the keyword in the
(Get|Set)Property methods, you can't fool it by just putting the keyword
there. I gather it must give a value a round trip through
obj->Set,obj->Get to see whether your (Get|Set)Property methods actually
do as advertised. Very sneaky, actually checking on you like that. Makes
me feel like big brother is watching.

JD
