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Subject: Re: Classes and Widget Event Handlers...

Posted by [ronn](#) on Mon, 05 Jul 1999 07:00:00 GMT

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In article <MPG.11e88590a993852b989810@news.frii.com>,

davidf@dfanning.com (David Fanning) wrote:

> Struan Gray (struan.gray@sljus.lu.se) writes:

>

>> When this was originally posted in June '97, Ronn Kling and Bob

>> Mallozzi pointed out you could exploit the way that IDL calls and

>> defines event handlers. Ronn Kling used the EVENT\_PRO keyword when creating

>> the top level base to define EXAMPLE::EVENT as an event procedure.

>

> I don't recall now if Ronn actually did this or not, but

> if he did it was a BAD idea! Using the EVENT\_PRO keyword

> to assign the event handler to the top-level base can result

> in all kinds of havoc. This event handler should \*always\* be

> assigned with the Event\_Handler keyword on the XManager

> routine. (By the way, I am explicitly talking about a

> top-level base that is being \*managed\* by XManager.)

I actually used event\_pro='example::event' in a button definition statement as I recall. More importantly, this did work in the very first version of IDL 5.0. But as I remember it disappeared in the 5.0.a release.

>

>> Both techniques look powerful (and, more importantly, cool :-),

>> but both seem to rely on the ability to invoke an object method as if

>> it were a normal procedure, something that should, formally, be

>> impossible.

>

> I think it is impossible (or, more accurately, I haven't

> discovered a way to do it). But, by putting the "self"

> structure in the user value of the top-level base, each

> event handler has access to the self object pretty much

> directly.

As of today it is still impossible, but I keep asking RSI to allow us to be able to specify object methods in the event\_pro and event\_func keywords. We can get around it, but it adds just enough obfuscation to the code that it makes me uncomfortable. Just think if we could do this... No more non-object event handling code, no more widget\_control,event.top,get\_uvalue=state (or self ,etc.). Almost everything that we write could be objects!

-Ronn

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