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Subject: Re: Object as a member to object/class

Posted by [Michael Galloy](#) on Tue, 12 Feb 2008 21:57:24 GMT

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On Feb 12, 1:45 pm, Sven Utcke <utcke+n...@informatik.uni-hamburg.de> wrote:

> I'm plainly too stupid for the following: I would like to have an  
> object as a member to a second class. I.e. I have something like  
> this:

```
>  
> PRO MODBUS__DEFINE  
>   struct = { MODBUS, Host:"hasgkssccdkal.desy.de", Port:502, tid:0L }  
> END
```

>  
> and, later on,

```
>  
> PRO GKSSBC__DEFINE  
>   struct = { GKSSBC, Con:Obj_New(), addr:'4020'XL, Factor:1.0, Steps:200, Micro:6  
> }  
> END
```

>  
> Now, I would like to do something like

```
>  
> FUNCTION GKSSBC::INIT, addr = addr, factor = factor, con = con  
>   IF KEYWORD_SET(addr) THEN self.Addr = addr ELSE self.Addr =  
> '4020'XL  
>   IF KEYWORD_SET(factor) THEN self.Factor = factor ELSE self.Factor = 1.0  
>   IF KEYWORD_SET(con) THEN self.Con = con ELSE self.Con =  
> obj_new("modbus")  
>   return, 1  
> END
```

>  
> But even just doing

```
>  
> FUNCTION GKSSBC::INIT  
>   self.Con = obj_new("modbus")  
>   return, 1  
> END
```

>  
> doesn't wor at all in IDL 6.4 (it results in something like:

```
>  
> % Object reference expression not allowed in this context: <OBJREF  
> (<ObjHeapVar38(MODBUS)>)>.  
> % Execution halted at: GKSSBC::INIT    13  
> /afs/desy.de/user/u/utcke/src/Modbus/gkss9100C.pro  
> %          OBJ_NEW  
> %          $MAIN$  
>
```

> So how does this `_really_` work?  
>  
> Any help appreciated!

Your code works for me. The only thing I can think of is that you might have changed the definition of `self.con` without `.reset-ing` or exiting IDL?

Mike

--

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Subject: Re: Object as a member to object/class  
Posted by [ben.bighair](#) on Tue, 12 Feb 2008 22:10:58 GMT  
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On Feb 12, 3:45 pm, Sven Utcke <utcke+n...@informatik.uni-hamburg.de> wrote:

> Hi,  
>  
> I'm plainly too stupid for the following: I would like to have an  
> object as a member to a second class. I.e. I have something like  
> this:  
>  
> PRO MODBUS\_\_DEFINE  
>     struct = { MODBUS, Host:"hasgksscdkal.desy.de", Port:502, tid:0L }  
> END  
>  
> and, later on,  
>  
> PRO GKSSBC\_\_DEFINE  
>     struct = { GKSSBC, Con:Obj\_New(), addr:'4020'XL, Factor:1.0, Steps:200, Micro:6 }  
> END  
>  
> Now, I would `_like_` to do something like  
>  
> FUNCTION GKSSBC::INIT, addr = addr, factor = factor, con = con  
>     IF KEYWORD\_SET(addr) THEN self.Addr = addr ELSE self.Addr = '4020'XL  
>     IF KEYWORD\_SET(factor) THEN self.Factor = factor ELSE self.Factor = 1.0  
>     IF KEYWORD\_SET(con) THEN self.Con = con ELSE self.Con =  
obj\_new("modbus")  
>     return, 1  
> END  
>  
> But even just doing

```
>
> FUNCTION GKSSBC::INIT
>   self.Con = obj_new("modbus")
>   return, 1
> END
>
> doesn't wor at all in IDL 6.4 (it results in something like:
>
> % Object reference expression not allowed in this context: <OBJREF
> (<ObjHeapVar38(MODBUS)>)>.
> % Execution halted at: GKSSBC::INIT    13
> /afs/desy.de/user/u/utcke/src/Modbus/gkss9100C.pro
> %          OBJ_NEW
> %          $MAIN$
>
> So how does this really work?
```

Hi,

No such thing as too stupid. Learning curves can be twisted, that's all. My first thought is that MODBUS does not have an MODBUS::INIT method since you don't show it. Can you successfully instantiate a MODBUS object on its own? Like...

```
IDL> obj = OBJ_NEW("MODBUS")
```

On a different note, you might find it fruitful to look at David Fanning's excellent description of when to use KEYWORD\_SET vs. N\_ELEMENTS. [http://www.dfanning.com/tips/keyword\\_check.html](http://www.dfanning.com/tips/keyword_check.html)

Cheers,  
Ben

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Subject: Re: Object as a member to object/class  
Posted by [Michael Galloy](#) on Wed, 13 Feb 2008 00:50:50 GMT  
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A few more comments...

On Feb 12, 1:45 pm, Sven Utcke <utcke+n...@informatik.uni-hamburg.de> wrote:

```
> PRO MODBUS__DEFINE
>   struct = { MODBUS, Host:"hasgksscdkal.desy.de", Port:502, tid:0L }
> END
```

Be careful here. Those values "hasgksscdkal.desy.de", 502, and 0L are only used for their type. The actual values are thrown away. Normally,

I do something like:

```
struct = { MODBUS, host: "", port: 0, tid: 0L }
```

so I don't fool myself.

I second that you should read David's article (N\_ELEMENTS is probably what you want to use in GKSSBC::INIT).

Mike

--

[www.michaelgalloy.com](http://www.michaelgalloy.com)

Tech-X Corporation

Software Developer II

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Subject: Re: Object as a member to object/class

Posted by [Sven Utcke](#) on Thu, 14 Feb 2008 14:13:21 GMT

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"mgalloy@gmail.com" <mgalloy@gmail.com> writes:

> On Feb 12, 1:45i½pm, Sven Utcke <utcke+n...@informatik.uni-hamburg.de>

> wrote:

>> I'm plainly too stupid for the following: I would like to have an

>> object as a member to a second class. i½l.e. I have something like

>> this:

> Your code works for me.

And so it does indeed. Today.

> The only thing I can think of is that you

> might have changed the definition of self.con without .reset-ing or

> exiting IDL?

Sounds very likely indeed.

Thank you very much (also the other two posters) for your help. It now works exactly as intended (well, the cases I have tested so far :-)...

Sven

--

\_\_\_\_\_ Dr.-Ing. Sven Utcke \_\_\_\_\_

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\\\_||\\\_\\\_||\_\_\_/ http://www.desy.de/~utcke (to come)|\_\_\_/|\_\_\_|\_\_\_/|\_|

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