
Subject: Re: IDL object copying

Posted by [Wout De Nolf](#) on Thu, 28 Jul 2011 09:20:34 GMT

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On Wed, 27 Jul 2011 22:47:17 -0700 (PDT), Beaker

<mattjamesfrancis@gmail.com> wrote:

> IDL seems to have an unexpected behaviour when dealing with custom
> objects.

>

> If I have an object, say obj1 and I then say:

>

> obj2 = obj1

>

> I would expect to create a copy of obj1. Any changes to members of
> obj2 I made through its methods should not change obj1, but that it
> not what I find. In fact any changes made to one changes the other.

>

> Looking at the details of the two variables we have (note that the
> class of the object is called DATETIME)

>

> OBJ1 OBJREF = <ObjHeapVar829(DATETIME)>

> OBJ2 OBJREF = <ObjHeapVar829(DATETIME)>

>

> IDL has decided that both of these are in fact pointers to the same
> heap memory, rather than being different instances of the same class,
> without their own heap memory. This is bad design; it is not the
> expected behaviour of the assignment operator, and IDL provides no
> mechanism to distinguish copy construction from assignment!

>

> Can anyone suggest a workaround? I am in the midst of re-writing an
> IDL code using custom objects (I am C++ developer by preference) and
> am starting to realise the severe limitations of IDL's object
> implementation!

You are right, IDL classes don't have copy constructors and you can't
overload the assignment operator '='. What you can do is add a "clone"
or "copy" method and call it explicitly:

http://www.idlcoyote.com/tips/copy_objects.html