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Subject: Re: Copying objects

Posted by [robert.mallozzi](#) on Wed, 01 Dec 1999 08:00:00 GMT

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In article <820s03\$t1b\$1@usenet.bham.ac.uk>,

James Tappin <sjt@star.sr.bham.ac.uk> writes:

> Is there a "clean" way to make a copy of an object. The best I could do for a  
> nice easy case with no pointers or object references in the class was:

>

> pro Object1::set\_all, tstr

> for i = 0, n\_tags(tstr)-1 do self.(i) = tstr.(i)

> end

>

> function Object1::copy

> temp = {object1}

> for i = 0, n\_tags(temp)-1 do temp.(i) = self.(i)

> newobj = obj\_new('object1')

> newobj -> set\_all, temp

> return, newobj

> end

>

> While it works, it seems to be a bit of a kludge. Is there a better way?

I don't think there is more general way to do this other than to have IDL do it internally, but this would be difficult since objects can contain other objects, pointers, pointers-to-pointers, etc.

I suggested this to RSI during 5.3 beta testing, but basically the answer was "no way." During some email exchanges regarding object encapsulation, I was told something very interesting, however. Although it violates encapsulation, it is possible to return a pointer to object internal data, thus preventing copying of large datasets. However, one could then modify the object data from outside the object itself - not good object-oriented programming.

I was told by RSI that (paraphrasing) that "there is not much enforcement of encapsulation for the present, but it may be tightened in future releases of IDL; there may come a time when returning a pointer will not longer work." Oops! Maybe that should be added to the IDL documentation :-)

While I am on the subject of RSI beta testing support, I find that I am again frustrated by the beta testing procedure. Almost all bugs and feature requests I submitted are unaddressed in the 5.3 release version. The problem of plotting of log scales with less than 1 decade still remains - a bug report I have submitted faithfully since 1995! I realize that IDL is a huge package, and must require \*a lot\* of work to maintain and upgrade, but this is not the first time this has

happened, and I have to ask myself "what's the point in beta testing, and taking the time to document possible errors for submission?"  
I'd be interested in hearing other people's experiences with the beta program, or RSI support in general.

Ok, I'm done complaining now. Back to IDL programming :-)

Regards,

-bob

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Robert S. Mallozzi

256-544-0887

Mail Code SD 50

<http://gammaray.msfc.nasa.gov/>

Marshall Space Flight Center

<http://cspar.uah.edu/~mallozzir/>

Huntsville, AL 35812  
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