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Subject: Re: IDLgrLegend broken

Posted by [Mark Hadfield](#) on Thu, 07 Dec 2000 20:21:16 GMT

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"David Fanning" <davidf@dfanning.com> wrote in message  
news:MPG.14996ac0b9d231b2989cb0@news.frii.com...

Responding to David's post, and his quote from Pavel's post, which I have  
not yet seen:

Pavel, quoted by David:

>> I think the only really generic solution is \*saving each method in a  
>> separate file\*.

I think that this is not a good idea, because of this rule:

IDL searches--all the way up the inheritance tree--in memory before  
searching on the disk. (For performance reasons, obviously.)

So if we have a class MyClass with a method SomeMethod stored in a file  
myclass\_\_sOMEMETHOD.pro then the first time IDL wants to call SomeMethod on  
a MyClass object it may find and compile myclass\_\_sOMEMETHOD.pro, but \*only\*  
if the search through the already-compiled functions in memory fails to find  
a SomeMethod associated with one of MyClass's superclasses.

The reason for storing all object methods in myclass\_\_define.pro is that  
myclass\_\_define is always called (and so myclass\_\_define.pro is always  
compiled) when the first instance of MyClass is created. (Unless you get  
sneaky and try to restore MyClass from disk.)

David:

> But before I did this, I'd have a closer read of this  
> article, where JD and I (and probably Mark) discussed  
> this restore object problem and came up with a  
> "sorta" solution:  
>  
> [http://www.dfanning.com/tips/saved\\_objects.html](http://www.dfanning.com/tips/saved_objects.html)

Hey nice one David. I don't know that I can claim any of the credit or blame  
for this article. I have read it before and I should have remembered its  
existence before posting very similar material.

A comment/question on the RESOLVE\_OBJ routine that's shown at the above  
link:

The following code snippet ensures that each object's \_\_define procedure is  
called only if it has not already been compiled. (The array ri holds a list  
of currently compiled routines, generated by a call to ROUTINE\_INFO.)

```
if (where(ri eq defpro))[0] eq -1 then begin
  ;; Compile and define the class.
  call_procedure,defpro
endif
```

My comment is: why bother? Once a \_\_define method has been called once, further calls have no effect.

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