Subject: Object Funkiness Posted by J.D. Smith on Wed, 30 Jul 1997 07:00:00 GMT View Forum Message <> Reply to Message

OK OOP experts. Here's a conundrum...

here's a procedure to test dynamic binding of methods in IDL...

```
pro testdb
 a=obj_new('eeke','a')
 b=obj_new('eeke','b')
 list=[a,b]
 ran=fix(randomu(sd) ge .5)
 list[ran]->Message, ran, 1-ran
 obj_destroy,list
 return
end
and the file eek__define.pro contains:
pro eeke::Message, ran, ran2
 print, self. val, 'random: ', ran, ran2
 return
end
function eeke::Init,val
 self.val=val
 return,1
end
pro eeke__define
 struct={eeke,val:"}
 return
end
When I run it I get
IDL> testdb
 list[ran]->Message, ran, 1-ran
% MESSAGE: Incorrect number of arguments.
 At: /u/jdsmith/idl/pro/mylib/testdb.pro, Line 6
% Compiled module: TESTDB.
% Attempt to call undefined procedure/function: 'TESTDB'.
% Execution halted at: $MAIN$
```

If I change the name of Message to something else, or take away the arguments to message in both the method definition and the call, the error disappears. Is 'message' somehow different than other names? I thought it could be shadowing the idl built-in message, and screwing up the dynamic binding, but I've tried tons of other built-in names (like 'print', 'xmanager', etc.) with nary a problem. Perhaps 'Message' is some IDL internal method for all objects... anyway it is very troublesome, and I'd like to figure out the cause. Any help would be greatly appreciated.

JD

P.S. Except for this problem, dynamic binding seems to work well.

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Subject: Re: Object Funkiness
Posted by J.D. Smith on Mon, 04 Aug 1997 07:00:00 GMT
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```
Phil Williams wrote:
> J.D. Smith wrote:
>>
>> J.D. Smith wrote:
>>> OK OOP experts. Here's a conundrum...
>>> here's a procedure to test dynamic binding of methods in IDL...
>>>
>>> pro testdb
      a=obj new('eeke','a')
>>>
      b=obj_new('eeke','b')
>>>
      list=[a,b]
>>>
      ran=fix(randomu(sd) ge .5)
>>>
      list[ran]->Message, ran, 1-ran
>>>
      obj_destroy,list
>>>
      return
>>>
>>> end
>>>
>>> and the file eek define.pro contains:
>>>
>>> pro eeke::Message, ran, ran2
      print, self.val, 'random: ',ran, ran2
      return
>>>
>>> end
>>> function eeke::Init,val
      self.val=val
>>>
```

I think perhaps you're thinking of the INIT class method -- __defines are in fact procedures, I believe. It's really a problem with the compiler parsing method names incorrectly for methods which shadow IDL builtin's, with some conditions affecting whether the error will occur. I've alerted RSI Tech Support and they're working on it, but for now, avoid method names such as 'Message', 'Wait', 'Wset', and likely several more.

JD