Subject: Re: keyword inheritance and object inheritance Posted by David Fanning on Sat, 23 Mar 2002 20:45:05 GMT View Forum Message <> Reply to Message

Ben Tupper (btupper@bigelow.org) writes:

- > I really don't understand how to retrieve object properities when it
- > comes to multiple object inheritance.

I'm pretty sure you are not alone, Ben. I *thought* I understood it, but I spent two hours getting your example to work. Although, as it happened, I had the problem solved in five minutes, but I was mistyping "grandma" as "gra*m*dma". No wonder is was always undefined. Typical, I'm afraid. :-(

Anyway, after the jolt of Starbuck's put me onto the right track, I think I really do understand it how. At least I tried every single one of the perturbations at least 5 times. :-)

Here is the rule of thumb I would use. On every GetProperty method, I would *define* a _Ref_Extra keyword. But on every *call* to a GetProperty method I would use an _Extra keyword to pass the extra structure.

For example, here is how you wrote the GetProperty methods for your "mine" example:

```
; Getproperty
PRO grandmother::GetProperty, grandma = grandma
grandma = self.grandma
END
; GetProperty
PRO mother::GetProperty, mom = mom, Ref Extra = Extra
mom = Self.mom
Self->grandmother::GetProperty, _Extra = extra
END
; GetProperty
```

```
PRO myobj::GetProperty, me=me, _Extra = Extra
 me = Self.me
 Self->mother::GetProperty, _Extra = extra
 END
And here is how I changed them to get them to work
as you expected them to:
 ; Getproperty
 PRO grandmother::GetProperty, grandma = grandma, Ref Extra=extra
 grandma = self.grandma
 END
 ; GetProperty
 PRO mother::GetProperty, mom = mom, Ref Extra = Extra
 mom = Self.mom
 Self->grandmother::GetProperty, _Extra = extra
 END
  GetProperty
 PRO myobj::GetProperty, me=me, _Ref_Extra = Extra
 me = Self.me
 Self->mother::GetProperty, Extra = extra
 END
Here is the result of my changes:
 IDL> mine = Obj_new('MyObj', 'Mudd', 'Mom', 'Granny')
 IDL> mine->SetProperty, Grandma = 'Nana', Mom = 'Mum', Me = 'Pooh'
 IDL> mine->GetProperty, Grandma = Grandma, Mom = Mom, Me = Me
 IDL> help, grandma, mom, me
 GRANDMA
                 STRING = 'Nana'
              STRING = 'Mum'
 MOM
            STRING = 'Pooh'
 ME
Cheers,
David
David W. Fanning, Ph.D.
Fanning Software Consulting
```

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Coyote's Guide to IDL Programming: http://www.dfanning.com/ Toll-Free IDL Book Orders: 1-888-461-0155