Subject: Re: Commons, Was: can i place a job advert Posted by Martin Downing on Tue, 27 Nov 2001 00:20:19 GMT

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Well I've removed all the graphics stuff -I havent got a clue what that was about and you can add what you like later! My solution is to link all objects as a singly linked list which has its head pointer (named objTop in this code) stored using a COMMON BLOCK so that it is visible to all object instances. This could be considered a static object member instance, rather like you can find in some C++ Classes. In C++ these beasts have only one value but are visible from all instances of the class incredibly useful for stacks. Ok so strictly the variable is not private to the class, but it takes someone daft enough to copy the COMMON identifier: "__TEST_PRIVATE_STATIC_MEMBERS" elsewhere to access the pointer! I think this is a very reasonable use of common blocks, but I await to see alternatives. cheers Martin When you run it you should get the following: IDL> pavels test three one pro Test define result = {TEST, data_holder : ptr_new(),objPrevious:obj_new()};, inherits 'IDLgrModel'} end function TEST::init, data=data COMMON TEST PRIVATE STATIC MEMBERS, objTop ; if undefined, point objTop to a NULL object if n_elements(objTop) eq 0 then objTop = obj_new() self.objPrevious = objTop objTop = self

; add the rest of your initialisations

```
self.data_holder = ptr_new(data)
return, 1
end
function TEST::GET_OTHERS, index ;FromTop
COMMON TEST PRIVATE STATIC MEMBERS, objTop
obj=objTop
i = 1
while i LT index do begin
  if obj_valid(obj) then obj = obj.objPrevious
 if obj ne self then i = i+1
endwhile
if obj_valid(obj) then data = *(obj.data_holder) else data = 0
return, data
end
; delete a single instance
pro TEST::CleanUp
COMMON __TEST_PRIVATE_STATIC_MEMBERS, objTop
; free data
ptr_free, self.data_holder
; relink object pointers
if self eq objTop then begin
 objTop = self.objPrevious
endif else begin
 obj=objTop
 while obj ne self do begin
 help, obj
 next = obj
   obj = obj.objPrevious
 endwhile
 next.objPrevious = self.objPrevious
endelse
end
; delete all instances of this object class
pro TEST::CleanUpAll
COMMON __TEST_PRIVATE_STATIC_MEMBERS, objTop
obj=objTop
```

```
while obj_valid(obj) do begin
  objPrev = obj.objPrevious
 obj_destroy, obj
 obj = objPrev
endwhile
end
pro pavels_test
a = obj_new('TEST', data = "one")
b = obj new('TEST', data = "two")
c = obj_new('TEST', data = "three")
then it is possible to do something like;
print, b->get_others(1)
print, b->get_others(2)
c->CleanUpAll
end
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"Pavel A. Romashkin" <pavel.romashkin@noaa.gov> wrote in message
news:3C02996F.ABD6D1D8@noaa.gov...
> This topic is irresistable.
> How about we issue a Challenge:
>
> Please modify the object definition below or create a method for objects
> to be aware of each other after creation:
> :*******
> pro Test__define
> result = {'TEST', data_holder : ptr_new(), inherits 'IDLgrModel'}
> end
>
```

```
;so that if
>
>
> a = obj_new('TEST')
> b = obj_new('TEST')
  ;then it is possible to do something like
>
  b_CTM_matrix = a -> Get_others_CTM(a_keyword = '?')
>
  ; without passing B to the call?
  Submissions using bulk heap searches and .sav files are not allowed :)
>
> Cheers,
> Pavel
> Richard Younger wrote:
>>
>> Mind you, I'm not supporting banning commons as dogma, but I think there
>> are enough general objections to them to ask people to think a bit
>> before they rush out and use them everywhere they can.
```