Subject: Re: Releasing memory in IDL Posted by Paul Van Delst[1] on Wed, 23 Jan 2008 21:15:00 GMT

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Paul van Delst wrote:
> Jean H wrote:
>> Jaime wrote:
>>> Thanks Jean,
>>>
>>> it helped me... but I was forced to call heap gc and delete a couple
>>> of arrays (a=0) at the end, but still inside, of the clumpfind
>>> function. After that I still needed to call heap gc after clumpfind is
>>> called.
>>>
>>> It looks still strange to me that I should all this to get some memory
>>> back... is there a way to avoid the memory leak?
>>>
>>> Best,
>>> Jaime
>>
>> hum...
>> for regular variables (i.e. not pointers), they are released from
>> memory when you exit the pro or function... so setting "a=0" should
>> change the memory used IN the function, but should have no effect when
>> the program returns to a lower / main level. Indeed, this is correct
>> provided that a) the variable is not part of the argument of the
>> function, or b)the variable is not part of a common block.
>> To avoid memory leak... well... pointers need to be well defined and
   cleaned up!
>> a = ptr_new(indgen(10000000000))
  a = 0 = > you just lost track of the indgen(10000000000) array!!! ...
>
  Not completely:
>
 IDL> x=ptr_new(lindgen(100))
> IDL> help, x
> X
             POINTER = <PtrHeapVar1>
> IDL> help, *x
> <PtrHeapVar1> LONG
                             = Array[100]
> IDL> x=0
> IDL> help, x
> X
             LONG
                                0
> IDL> print, ptr_valid()
> <PtrHeapVar1>
> IDL> y=ptr_valid(1,/cast)
> IDL> help, y
```

```
> Y POINTER = <PtrHeapVar1>
> IDL> help, *y
> <PtrHeapVar1> LONG = Array[100]
>
```

> Though, off the top of my head, I dunno how you would determine the

> pointer heap variable number programmatically.

Duh! I shoulda kept reading the docs before posting....