Subject: Re: In need of array help!
Posted by Paul Van Delst[1] on Fri, 11 Jul 2008 17:40:57 GMT
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.Pink wrote:
> Hi folks, I'm new to IDL and I'm having a bit of trouble with array
> manipulation.
>
> I have a program that encounters data sets of varying sizes, and I
> need to store the information into an array contained in an object.
>
> I've tried using the array resizing techniques found in
> http://www.dfanning.com/code_tips/nullarray.html, but no matter what I
> to, I am unable to actually change the size!
>
> Any suggestions would be very very very helpful!
>
> Thanks,
> Aaron
> ----------
> struct = {PermResults, $
> SliceNum: 0.0, $
> roiValues: fltarr(100000), $;100000 is far more than I
> need, but still a terrible way to do it.
> area: 0.0, $
> perimeter: 0.0, $
> pxlcount: 0L}
> ----------

You should read up on the differences between named and unnamed structures. Apart from that, two things spring to mind:

1) Pointers:

```
struct = {PermResults, $
        SliceNum: 0.0, $
        roiValues: ptr_new(/allocate_heap), $
        area: 0.0, $
        perimeter: 0.0, $
        pxlcount: 0L}
```

you can then simply do

```
*struct.roiValues = ...data...
```

as required to "create" the data entry to what ever size you want.

2) Use CREATE_STRUCT() to create your structure on the fly. It can be a bit of a pita to do that though - I've only found it useful when I do the same thing over and over again (e.g. reading netCDF files) so that I can stick all the mucking about in a procedure. And I don't think you can do it for named structures that you will add stuff to after creation.... but I'm not sure.

cheers,

paulv
