## Subject: Re: IDL calculating elements in arrays plus there offsets Posted by Will on Mon, 08 Mar 2010 12:40:32 GMT

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On Mar 8, 12:26 pm, jeanh
<ighasb...@DELETETHIS.environmentalmodelers.ANDTHIS.com> wrote:
> Let's see last point in your message first.
> For images, you don't need more than 3 or 4 dimensions.
> 1) X
> 2) Y
> 3) Z - number of images
> 4) (RGB)
>
> Now, and this may not be the most efficient way but it will allow you to
  understand what is going on, you can do something like:
>
> image1Array
> image2Array
> nblmagesFirstGroup = 10
 nblmagesSecondGroup = 5
>
  for img1 = 0, nblmagesFirstGroup -1 do begin
>
       for img2 = 0, nblmagesSecondGroup -1 do begin
>
            result = image1Array[*,*,img1] - image2Array[*,*,img2]
       endfor
 endfor
>
>
> here, image1Array has 3 dimensions (x, y, z). By using the subscript
> [*,*,img1], you are accessing "each elements of the 1 and 2nd
> dimensions, corresponding to img1", img1 being a simple counter.
> Of course, in this example, the result will be overwritten in each
> iteration so you may want to save it.
>
> This being said, you should first write a more precise question. "offset
> the elements by 1 to the right" can mean lots of things... are yo
> comparing 2 images, shifting in the X direction? Y? or are you
 considering multiple images?
>
  Jean
 On 08/03/2010 6:43 AM, Will wrote:
>
>
>> Hi
>> sorry I don't think the heading was very clear there.
>
```

```
>> I have loaded a group of arrays (jpeg files) into a seperate float
>> array, and again with another group of files I have done the same
>> thing. I am now trying to have the two arrays perform a subtraction
>> calculation with one another and what I want to do is have the arrays
>> do this with each other until they have did the calculation with every
>> element. i.e
>
>> it does the first calculation, then offsets the elements by one to the
>> right and does the next calculation then repeats this until it has
>> done every element in the array.
>> I was curious as to how to do this successflly I am currently trying
>> to use a FOR loop after my Repeat loop failed. I have the maths I need
>> here but I don't know how to access the subscripts of my array. I have
>> inputted all the files into an array using the FLOAT command. the
>> likes of FLTARR just keeps saying that I have more than 8 dimensions
>> and hence it won't work.
>> Any ideas guys?
>> Thanks
>> Will- Hide quoted text -
```

Sorry for impreciseness. I don't seem to be on the ball at all today. Yeah that makes sense, and to answer your questions it is multiple images I am loading into two seperate float arrays thats 122 images for each array, so a grand total of 244 images are being loaded. The idea being to compare the mass amount of images with each other and moving the array around both in the x and y direction until the closest match is found.

I hope that clears it up for you, as I say I am not really on the ball today.

Thanks Will

> - Show quoted text -