Subject: Re: IDL calculating elements in arrays plus there offsets
Posted by jeanh on Mon, 08 Mar 2010 12:26:57 GMT
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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
nbImagesFirstGroup = 10
nbImagesSecondGroup =  5

for img1 = 0, nbImagesFirstGroup -1 do begin
 for img2 = 0, nbImagesSecondGroup -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
