
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, jean h

<jghasb...@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

> nblImagesFirstGroup = 10

> nblImagesSecondGroup = 5

>

> for img1 = 0, nblImagesFirstGroup -1 do begin

> for img2 = 0, nblImagesSecondGroup -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 successffly 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 -
>
> - Show 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
