Subject: Re: Help requested in eradicating FOR loops Posted by Spon on Tue, 18 Dec 2007 13:23:32 GMT

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On Dec 18, 11:00 am, dplat...@gmail.com wrote:
>> Off the top of my head:
>> 1-reform the points to match the size of the image: x1 =
>> reform(x1,image_height,image_width)
>> 2-make in "index" array: idx = findgen(image height,image width)
>> 3-make x-index and y-index arrays: x = idx mod image height & y = idx/
>> image height (or maybe those should be image width?)
\rightarrow 4-do the calculation: distance = ( (y1-y2)*x + (x2-x1)*y + (x1*y2-
>> x2*y1) ) / SQRT( (x2-x1)^2 + (y2-y1)^2 )
>> 5-put together the results matrix: results =
>> [[reform(image,image_height*image_width)],[distance]] (I'd have to
>> check the brackets, I always do)
> Thanks for the reply - as I understand it I need to make an array to
> hold x pixel positions and one to hold y pixel positions. For a 4 x 6
> array they would look like this:
>
> x locations: [0,1,2,3, 0,1,2,3, 0,1,2,3, 0,1,2,3, 0,1,2,3]
> y locations: [0,0,0,0, 1,1,1,1, 2,2,2,2, 3,3,3,3, 4,4,4,4, 5,5,5,5]
>
> I can make the x array by doing this:
>
> test_image = findgen(4, 6); a dummy test "image"
> temp = findgen(4 * 6)
> x_locations = temp mod 4
> but I am having problems creating the y locations array. Some help
> would be appreciated.
 Thanks, David
y_locations = fix(temp) / 4
```