
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?)

>> 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, 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
