Dear IDL users,

I would really appreciate some help in removing a nested FOR loop.

```
FOR x=0, image_width-1 DO BEGIN
     FOR y=0, image_height-1 DO BEGIN
          ; Write the current pixel value
          results[(x*mtf_region_height)+y, 1] = image[x,y]
          ; Calculate the distance of the current pixel from the
line defined
by the
          ; two points (x1, y1) and (x2, y2).
          results[(x*image_height)+y, 0] = (  (y1-y2)*x + (x2-
x1)*y + (x1*y2 -
x2*y1)  ) /  SQRT( (x2-x1)^2 + (y2-y1)^2 )
     ENDFOR
ENDFOR
```

'image' is a 2d image array
I want to work out the distance of each pixel from a line that is
defined by the two points (x1, y1), (x2, y2) and store this distance,
together with the pixel value in a 'results' array. The 'results'
array has the dimensions [(image_height*image_width), 2].

The above bit of code works but is a bit slow.

Any advice would be much appreciated.

Thanks,

David
Northampton, UK