Subject: Re: Convert 3D to 1D, apply fuction then convert back to 3D
Posted by penteado on Sun, 20 Jun 2010 23:15:54 GMT
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On Jun 20, 7:58 pm, Mat <m...@waikato.ac.nz> wrote:
> I am converting a image (5 bands) to 1D using reform. I then apply a
> function to this data and get a double "Array[3]"result. How do I then
> convert this result back into the origional image dimensions? eg:
>
> image= READ_IMAGE('test.tif')
> imagesize = SIZE(image, /DIMENSIONS)
> nx=imagesize[1]
> ny=imagesize[2]
> npix = nx*ny
> coords_2d = array_indices([nx,ny], lindgen(npix), /dimen)
> imageR= REFORM(image,5,npix)
>
> I then apply a function to this data and get a return in the form of:
>
> IDL> help, ret3
> RET3 DOUBLE = Array[3]
>
> I'm struggling to covert this back to a 3D image. Any ideas?

You are getting a result that is 1D (a 3-element vector). You can change it from its 1 dimension to 3, with a reform(ret3,1,1,3), but it would still have only 3 elements, not the original 5,nx,ny you want.

You need to think about what those 3 values represent with relation to you image and what you were looking for, which we cannot guess just from that description.