
Subject: Convert 3D to 1D, apply fuction then convert back to 3D

Posted by [Mat](#) on Sun, 20 Jun 2010 22:58:27 GMT

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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 orignal 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?
