Subject: Re: Maximum Intensity without FOR Loop Posted by btt on Tue, 11 May 2004 19:46:12 GMT

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Stefan Tuchschmid wrote:
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- > Hi there
- > a lot of posts talk about the necessity to avoid FOR loops ('if you
- > use for loops, make sure a lot of stuff is happening in there...').
- > However, I can't seem to find a better & working solution for the
- > following code fragment:

>

- FOR i=0,x resolution-1 DO BEGIN
- > FOR j=0,y_resolution-1 DO BEGIN
- > reformat_data[i,j,k]=MAX(data[i,j,lower_limit:upper_limit])
- > ENDFOR
- > ENDFOR

>

- > Background: data is a image stack (MRI 3D Data), we would like to find
- > the MIP (Maximum Intesity Projection) over a certain number of images.

Hi.

IDL > data = Bindgen(3,4,5)

You could use the DIMENSION keyword to MAX to find the maximum in that dimension (across the entire array.)

IDL> print, max(data, dim = 3)

48 49 50

51 52 53

54 55 56

57 58 59

Or, you could find the maximum using the 'max' operator on specified dismension (you can do more than two at a time.)

IDL> print, data[*,*,0] > data[*,*,2]

24 25 26

27 28 29

30 31 32

33 34 35

Ben