Subject: Re: Maximum Intensity without FOR Loop
Posted by David Fanning on Tue, 11 May 2004 19:29:22 GMT
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Stefan Tuchschmid writes:

> 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.
> The currrent solution is too slow, and a better solution highly
> appreciated!
> Algorithm-Freaks? Anyone?

I should think something like this would work:

```
mip = Max(data[*,*,lower_limit:upper_limit], Dimension=3)
```

Cheers,

David
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Coyote's Guide to IDL Programming: http://www.dfanning.com/