Subject: Re: Can this be done using array operations instead? Posted by Juggernaut on Thu, 02 Apr 2009 15:58:30 GMT

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On Apr 2, 10:34 am, robintw <r.t.wil...@rmplc.co.uk> wrote:
> Hi,
>
> I'm quite new to IDL and I've written a function to calculate some
> statistics for an image file in ENVI. The function has to be
> calculated for the 3x3 square around every pixel in the image. At the
> moment I'm using a couple of nested for loops to do that - is there a
> way to do it using array operations instead?
>
> What I suppose I'm asking for is a way to call a particular function
> for every element of an array - is that possible. I know it's possible
> to do NewArray = OldArray * 2, which is calling the + function on
> every element of the array, but is there a way to call my user-defined
> function on each element?
>
 I can post code if that would help.
>
> Cheers,
> Robin
I don't know exactly what "function" you're wanting to perform on
these pixels but CONVOL will operate in such a way.
IDL > x = indgen(3,3)
IDL> print, convol(x, [[1,1,1],[1,0,1],[1,1,1]], /center)
    0
          0
    0
         32
                0
    0
          0
                0
```

This will add up the surrounding pixels giving you the value as the new center pixel...don't know if that's helpful but enjoy.