
Subject: Re: image subtraction

Posted by [Craig Markwardt](#) on Thu, 14 Mar 2002 00:21:32 GMT

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aburden@mpl.ucsd.edu (Art) writes:

> Hi,
>
> Can anyone come up with an efficient way to subtract a single image
> from an array of images without using a loop, as in
>
> imgArr = imgArr - img1
>
> where,
>
> imgArr = lonarr(12,512,512)
>
> and,
>
> img1 = lonarr(512,512)
>
> as opposed to
>
> For ii=0,11 do imgArr[ii,*,*] = imgArr[ii,*,*] - img1

(a) You can do this:

```
imgarr = imgarr - rebin(reform(img1,1,512,512),12,512,512)
```

This makes IMG1 into a 1x512x512 array, and then uses REBIN to expand it to the desired size.

(b) I don't think a FOR loop will be that much slower than the REBIN approach, at least for 512x512 arrays.

Good luck,
Craig

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Astrophysics, IDL, Finance, Derivatives | Remove "net" for better response
