
Subject: Re: image subtraction

Posted by [Dick Jackson](#) on Tue, 19 Mar 2002 05:45:09 GMT

[View Forum Message](#) <> [Reply to Message](#)

"Kenneth Bowman" <k-bowman@null.tamu.edu> wrote in message
news:k-bowman-F0D133.10113317032002@news.tamu.edu...

```
> In article <MO3k8.1762$HJ.1430@shaw-ty1>,  
> "Dick Jackson" <dick@d-jackson.com> wrote:  
>  
> What's the timing for  
>  
> imgarr = imgarr - rebin(reform(img1,512,512,1),512,512,12)    ?
```

Good question. I don't know why it would be so, but it's longer:

```
>>>> > img1 = lonarr(512,512)  
>>  
>>>> > imgArr = lonarr(12,512,512)  
>>  
>> Using the methods suggested previously, this is likely to be faster (due  
>> to better cache use) if you can dimension this array as  
>>  
>> imgArr = LONARR(512,512,12)  
>  
> Good thinking, Ken, if this is an option for Art.  
> To round out the timings (YMMV):  
>  
> FOR ii=0,11 DO imgArr[ii,*,*] = imgArr[ii,*,*] - img1 : 1.402 s  
>  
> FOR ii=0,11 DO imgArr[ii,0,0] = imgArr[ii,*,*] - img1 : 1.232 s  
>  
> FOR ii=0,11 DO imgArr[*,*,ii] = imgArr[*,*,ii] - img1 : 0.741 s  
>  
> FOR ii=0,11 DO imgArr[0,0,ii] = imgArr[0,0,ii] - img1 : 0.301 s  
>  
> A big win there!  
>  
> For completeness:  
> imgarr = imgarr - rebin(reform(img1,1,512,512),12,512,512) : 0.210 s
```

For even more completeness:

```
imgarr = imgarr - rebin(reform(img1,512,512,1),512,512,12) : 0.260 s
```

Again, this is on IDL 5.5, Win2000.

Cheers,

--

-Dick

Dick Jackson / dick@d-jackson.com
D-Jackson Software Consulting / http://www.d-jackson.com
Calgary, Alberta, Canada / +1-403-242-7398 / Fax: 241-7392
