
Subject: Re: simple vectorizing problem

Posted by [Foldy Lajos](#) on Tue, 09 Sep 2008 09:58:15 GMT

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On Tue, 9 Sep 2008, Chris wrote:

```
> Looks like the memory allocation overhead associated with
> vectorization is worse than looping:
>
> vectorization 1 time: 5.0360808 s
> vectorization 2 time: 4.8453941 s
> looping itme:      4.0875931 s
>
> The vectorization performances become comparitvely worse as the array
> grows (both reform() and total() create temporary, large arrays).
>
> chris
>
> pro test
>
> nimage = 1500
> im = fltarr(512,512,nimage)
>
> t0 = systime(/seconds)
> mean=total(reform(im,512L*512L, nimage), 1)/(512.*512)
> t1=systime(/seconds)
>
> mean=total(total(im,1),1)/(512.*512.)
>
> t2 = systime(/seconds)
>
> for i=0, nimage-1, 1 do $
>   mean[i]=total(im[*,*,i])/(512.*512)
>
> t3=systime(/seconds)
>
> print, t1-t0
> print, t2-t1
> print, t3-t2
>
> end
>
>
```

try this:

```
t0 = systime(/seconds)
```

```
mean=total(reform(im,512L*512L, nimage, /overwrite), 1)/(512.*512)
;
t1=systime(/seconds)
```

regards,
lajos
