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Subject: Re: For loops vs. matrix operations

Posted by [Kenneth P. Bowman](#) on Thu, 18 Dec 2003 02:59:13 GMT

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In article <Z%3Eb.41137\$jo.28094@newssvr29.news.prodigy.com>,  
"Jonathan Greenberg" <greenberg@ucdavis.edu> wrote:

```
> array=intarr(10000)
> for i=0,(10000-1) do begin
>   array[i]=array[i]+1
> endfor
>
> MUCH slower than:
>
> array=intarr(10000)
> array=array+1
```

Try timing it and see :-)

```
n    = 1000000
array = LONARR(n)
```

```
time0 = SYSTIME(/SECONDS)
FOR i = 0, n-1 DO array[i] = array[i] + 1
time0 = SYSTIME(/SECONDS) - time0
```

```
time1 = SYSTIME(/SECONDS)
array = array + 1
time1 = SYSTIME(/SECONDS) - time1
```

```
PRINT, 'Speed-up : ', time0/time1
```

```
IDL> @time1
Speed-up :      42.071883
```

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