
Subject: Re: about replicate_inplace

Posted by [R.G. Stockwell](#) on Tue, 22 Jul 2003 23:42:31 GMT

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"JD Smith" <jdsmith@as.arizona.edu> wrote in message
news:pan.2003.07.22.22.25.44.654998.25152@as.arizona.edu...

```
> If you want that array to be full of zeroes, then it looks like yes,  
> but I submit this for your inspection:  
>  
> nreg=2000  
> T = systime(1)  
> b = bytarr(nreg, nreg)  
> b[*]=1b  
> print, systime(1) - T, ' seconds, BYTARR and [*]'  
>  
> T = systime(1)  
> b = bytarr(nreg, nreg)  
> replicate_inplace, b, 1b  
> print, systime(1) - T, ' seconds, BYTARR and REPLICATE_INPLACE'  
>  
> T = systime(1)  
> replicate_inplace, b, 1b  
> print, systime(1) - T, ' seconds, REPLICATE_INPLACE'  
>  
> T = systime(1)  
> b = make_array(/BYTE,nreg,nreg,VALUE=1b)  
> print, systime(1) - T, ' seconds, MAKE_ARRAY'  
>  
> 0.15847003 seconds, BYTARR and [*]  
> 0.027868986 seconds, BYTARR and REPLICATE_INPLACE  
> 0.016924024 seconds, REPLICATE_INPLACE  
> 0.021242023 seconds, MAKE_ARRAY  
  
> Looks like REPLICATE_INPLACE is the fastest way to populate an  
> existing array with 1's (or some arbitrary value, for that matter).
```

to populate with an arbitrary value, check out

```
onebyte = 1b
```

```
T = systime(1)
```

```
b = bytarr(nreg, nreg)+onebyte
```

```
print, systime(1) - T, ' seconds'
```

```
> 0.029999971 seconds
```

compared to the above code example:

```
0.13000000 seconds, BYTARR and [*]
```

```
0.050000072 seconds, BYTARR and REPLICATE_INPLACE
```

0.039999962 seconds, REPLICATE_INPLACE
0.040000081 seconds, MAKE_ARRAY

Also, kinda interesting

```
T = systime(1)
```

```
b = b*zero+onebyte
```

```
print, systime(1) - T, ' seconds, *0 + 1'
```

gives us:

```
0.039999962 seconds, *0 + 1
```

which is the same as replciate_inplace and make_array.

just thought it was kinda interesting.....

cheers,
bob
