
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 replicate_inplace and make_array.

just thought it was kinda interesting.....

cheers,
bob
