
Subject: Re: Strange memory problem

Posted by [Julie Greenwood](#) on Wed, 22 Dec 1999 08:00:00 GMT

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Liam Gumley <Liam.Gumley@ssec.wisc.edu> wrote in message
news:3860E331.C4E36EA4@ssec.wisc.edu...

> "Mark D. Williams" wrote:

>> FWIW, if you want to save time and memory, a faster way to do the above

>> is as follows:

>>

>> WAVE> temp = BYTARR(1000,1000,25, /NoZero) + 10B

>

> I get the fastest response (in IDL) with

>

> temp = replicate(10B, 1000, 1000, 25)

>

> Cheers,

> Liam.

OK, After I figured out to clear the memory between calls, I got the following numbers (before clearing the temp array, the numbers just kept growing...):

0.33000004 Seconds (temp=bytarr(1000,1000,25))

1.5920000 Seconds (replicate_inplace, temp, 10B)

2.0829999 Seconds (temp = BYTARR(1000,1000,25) + 10B)

1.9130000 Seconds (temp = BYTARR(1000,1000,25, /NoZero) + 10B)

1.5619999 Seconds (temp = replicate(10B, 1000, 1000, 25))

pro test_array_init

T = SYSTIME(1)

temp=bytarr(1000,1000,25)

PRINT, SYSTIME(1) - T, ' Seconds (temp=bytarr(1000,1000,25))'

temp = 0

; the following takes a *very* long time

;temp(*)=10B

;PRINT, SYSTIME(1) - T, ' Seconds'

T = SYSTIME(1)

temp=bytarr(1000,1000,25)

replicate_inplace, temp, 10B

PRINT, SYSTIME(1) - T, ' Seconds (replicate_inplace, temp, 10B)'

temp = 0

T = SYSTIME(1)

temp = BYTARR(1000,1000,25) + 10B

PRINT, SYSTIME(1) - T, ' Seconds (temp = BYTARR(1000,1000,25) + 10B)'

temp = 0

T = SYSTIME(1)

temp = BYTARR(1000,1000,25, /NoZero) + 10B

PRINT, SYSTIME(1) - T, ' Seconds (temp = BYTARR(1000,1000,25, /NoZero) + 10B)'

temp = 0

T = SYSTIME(1)

temp = replicate(10B, 1000, 1000, 25)

PRINT, SYSTIME(1) - T, ' Seconds (temp = replicate(10B, 1000, 1000, 25))'

temp = 0

end

Julie

~~~~~  
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