Subject: Re: Assignment Time for a 3d Variable
Posted by Antonio Santiago on Wed, 23 Nov 2005 12:46:41 GMT
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Nuno Oliveira wrote:
> I was making a routine that was doing an intense assignment in one of
> the three directions possible, according to an option (either the first,
> second or third dimension). I noticed that when I was doing it in the
> first direction I took MUCH more time than in the other two directions.
>
> Anyone has a clue for why does this happen? And anyone knows a way that
> can make execution time similar? (Making the others to wait is not a
> valid answer, ;))
>
> Here is the code for checking the execution times:
>
> time = systime(1)
> for k = 0, 99 do $
> temp = vol[k,*,*]
> print, 'execution time (for x axis): '+STRING(systime(1) - time)
>
> time = systime(1)
> for k = 0, 99 do $
> temp = vol[*,k,*]
> print, 'execution time (for y axis): '+STRING(systime(1) - time)
>
> time = systime(1)
> for k = 0, 99 do $
> temp = vol[*,k,*]
> print, 'execution time (for z axis): '+STRING(systime(1) - time)
>
> And this is what I get:
>
> execution time (for x axis): 0.24305296
> execution time (for y axis): 0.0063638687
> execution time (for z axis): 0.0065510273
>

I suposse it depends on the way IDL (and internally C) stores arrays.
http://www.ibiblio.org/pub/languages/fortran/ch2-6.html

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