
Subject: Re: Splitting large for loop over multiple processors
Posted by [Jeremy Bailin](#) on Tue, 15 Mar 2016 15:30:56 GMT
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On Wednesday, March 9, 2016 at 5:40:50 AM UTC-5, Joe Llama wrote:

> Hi all,
>
> I know, I know before I get lots of hate that I shouldn't have a for loop in my code...this isn't my
code, it's code someone else wrote and I just haven't got the time go through and vectorise it.
>
> Basically I have an output array that is say
>
> out = fltarr(nx, ny, nz) where nx=ny=nz=100 each
>
> The way the code is currently written it has
>
> for i = 0, nx-1 do begin
> for j = 0, ny-1 do begin
> for k = 0, nz-1 do begin
> a lot of calculations
> endfor
> endfor
> endfor
>
> Basically, all I want to do is split this over all the cores on my mac pro so that it does say
>
> 0 - nx/6 on cpu 1
> nx/6 - 2*nx/6 on cpu 2 etc...
>
> I saw this article <http://www.exelisvis.com/Company/PressRoom/Blogs/TabId/836/ArticleID/2928/ArticleID/14744/Using-IDL-IDLBridge-to-run-multiple-processes-in-parallel.aspx>
>
> but the example isn't exactly easy to follow.
>
> If anyone has any tips I would really appreciate it.

I'd suggest Michael Galloy's library:

<http://michaelgalloy.com/2015/05/26/a-simple-multicore-library-for-idl.html>

-Jeremy.
