
Subject: Splitting large for loop over multiple processors

Posted by [joellama](#) on Wed, 09 Mar 2016 10:40:44 GMT

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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 to 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.
