Subject: Re: Array Tiling - The IDL Way
Posted by rogass on Mon, 12 Mar 2012 19:28:01 GMT
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On 12 Mrz., 18:31, Percy Pugwash <percy.pugw...@gmail.com> wrote:
> I have a large array that I'd like to break up into tiles (square tiles of side T). I would like to have those tiles in the form of a stack, such that my array goes from dimensions [Nx*T,Ny*T] to [T,T,Nx*Ny].
>
> Is there any way I can do this using only functions like REFORM and TRANSPOSE and no for-loops? Ideally I'd like to do it in-place too. I've been racking my brain for a nice IDLesque way to do this, but no luck thus far...
>
> P

Hi,
just have a try with this. Note that your tile size must be an integer
part of the original image.

```
function cr_tile,im,wx,wy
s = size(im,/dim)
nel = n_elements(im)/(wx*wy)
ind = rebin((lindgen(wx,wy) mod wx) + $
            rebin(lindgen(1,wy)*s[0],wx,wy,/sample),wx,wy,nel,/
sample)
ind     += rebin(reform((lindgen(s))[0:*:wx,0:*:wy],1,1,nel,/
over),wx,wy,nel)
return,im[temporary(ind)]
end
```

Cheers

CR