
Subject: Re: registering images, shift(/nowrap)

Posted by [David Fanning](#) on Mon, 11 Nov 2002 14:18:13 GMT

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Ronn Kling (ronn@rlkling.com) writes:

> I was wondering if anyone has a routine out there that allows you to shift
> an array without wrapping? The shift routine works great but anything that
> gets pushed off on one edge gets wrapped around to the other. I just want to
> throw this wrapped part away. A simple 1D example is
>
> in = [1,2,3,4,5]
> print, shift(in,2)
> IDL> 4,5,1,2,3
>
> what I want is
>
> print, shiftNoWrap(in,2)
> IDL> 0,0,1,2,3
>
> Of course, it really needs to work on a 2D image....

I should think something like this would work:

```
FUNCTION ZEROSHIFT, image, n1, n2
if n_elements(image) eq 0 then image = dist(30)
s = size(image, /dimensions)
if n_elements(n1) eq 0 then n1 = s[0]/2
if n_elements(n2) eq 0 then n2 = s[0]/2
retvalue = shift(image, n1, n2)
retvalue[0:n1-1, *] = 0
retvalue[* , 0:n2-1] = 0
RETURN, retvalue
END
```

Cheers,

David

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