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Subject: Re: Image warping in IDL  
Posted by [JD Smith](#) on Mon, 20 Nov 2006 20:17:03 GMT  
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On Tue, 14 Nov 2006 11:20:38 +0100, Wox wrote:

> On Fri, 10 Nov 2006 15:51:34 -0700, JD Smith <jdsmith@as.arizona.edu>  
> wrote:  
>  
> <snip>  
>  
>> If you code this up, let us know whether it was faster.  
>  
> Wow, thanks! A nice opportunity to brush up my histogram skills :-).  
>  
> I'm almost there and I will post some benchmarks when finished.  
>  
> One question though: "Don't you need a second loop (a loop over the  
> repeat counts in H4)?"

Yes, as I see you figured out. Nice implementation. As you found, explicitly loop from 1 to omax in your histogram of repeat counts is fine, and solves the problem without any monkeying of indices. In fact, the snippet `j=1,omax4-omin4` works only when `omin4` is zero (which it seems to be always for you). `j=1,omax` should work. If you want to handle the `j=1` case separately for efficiency (as you've done), just do so and start the loop at 2. Also, I couldn't quite understand the `rebin([3,2,3,2],4,npix)` for selecting which 4 of the 9 output pixels actually receive any data. It seems like those are fixed offsets, which wouldn't work when the offset direction rotates around. Maybe something about your mapping lets you get away with that.

JD

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