
Subject: Re: Fast shear

Posted by [Martin Downing](#) on Thu, 07 Feb 2002 12:53:32 GMT

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> Wayne Landsman <landsman@mpb.gsfc.nasa.gov> wrote in message
news:<3C60199D.E4810C70@mpb.gsfc.nasa.gov>...

>>

>> "Avoid the use of an asterisk on the left-hand side of an assignment."

>>

>> which in this case means to rewrite the assignment as

>>

>> for i = 0, n-1 DO array[0,i] = SHIFT(array[*],delta[i])

>>

>> For a fltarr(2048,2048) on my Solaris machine running V5.5, I find a

>> factor of 15 improvement in speed.

>>

>

> WOW! Wayne, that's magic. I get 10-15X speed-up. The world *has* to be

> told about this. One drawback - the code does not strictly make sense,

> hell who cares !?

>

I second that WOW! I had not realised that by specifying a single cell of
an image on the left hand side allows intelligent access to the elements
mapped by the dimensional shape of the right hand side. Offset assignments
in 2/3d images become a breeze.

e.g. to set image[100:109,100:129] = 255:

image[100,100] = replicate(255, 10, 30)

I had stupidly assumed that the assignment would follow C language rules and
fill in a raster ordering.

Thanks for the tip - I will be using this method from now on

Martin
