Subject: Re: Array indices and lookup tables Posted by Haje Korth on Fri, 11 Jun 2004 11:34:24 GMT

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Thanks everyone for your input, which helped me solve my problem. Here a bried summary: Chris Lee's code works great and was an option. The execution time for the [3,1440,720] array was 0.8 seconds on my machine. But I also tried a modified version of David Fanning's solution and noticed that it is slightly faster (0.5 seconds on my machine). The version I am now using is (just for the record):

```
function permute_rgb, rgb_image, perm

sz=size(rgb_image,/structure)

x=reform(perm[0,*,*])

y=reform(perm[1,*,*])

idx=y*sz.dimensions[1]+x

new_rgb_image=bytarr(3,sz.dimensions[1],sz.dimensions[2])

new_rgb_image[0,*,*]=(rgb_image[0,*,*])[idx]

new_rgb_image[1,*,*]=(rgb_image[1,*,*])[idx]

new_rgb_image[2,*,*]=(rgb_image[2,*,*])[idx]

return,new_rgb_image
end
```

"Haje Korth" <haje.korth@jhuapl.edu> wrote in message news:ca72v6\$qlb\$1@aplcore.jhuapl.edu...

- > Good morning all,
- > I am working on a coordinate transformation for a map and I have a simple
- > problem. My mind is alreay blocked early in the morning and I could use some
- > input: I have an rgb image of dimensions [3,1440, 720]. I need to rearranged
- > the pixel in the image according to a lookup table of dimension

```
[2,1440,360], which contains the column and row of the new pixel assigned to
a location. Is there a magic way to do this without looping through each
pixel in IDL?
Thanks for helping,
Haje
```