Subject: Re: Array Subscripting Puzzle
Posted by JD Smith on Wed, 22 May 2002 21:12:39 GMT
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On Fri, 17 May 2002 14:18:15 -0700, Richard Younger wrote:

> I came up with an answer for a [3,800,600] image, but couldn't quite
> wrap my head around the [800,600,3], so I swapped:
>
> image = TRANSPOSE(image, [2,0,1])
>
> color_vec = [255,255,0]
> mask = [[3*indices], [(3*indices + 1)],[(3*indices + 2)]] image[mask] =
> $
> REBIN(TRANSPOSE(color_vec), N_ELEMENTS(indices), 3)
>
> It certainly would be uglier if you made it all one line (well, two with
> TRANSPOSE). Someone clever could probably swap around the index order
> on the image to eliminate that transpose and pretty up the mask
> construction, too.

Ahh yes, you point out a simplification in my index computation for 3x800x600.

3*(y*s[0]+x)==3*inds

So that I could have written:

```
image[rebin(1#(3*inds),3,n)+rebin(indgen(3),3,n)]= $
  rebin([255,255,0],3,n)
```

Notice that Richard's example proves the point that you can use any convenient intermediary format: he chose nx3, in contrast to 3xn for this problem.

JD