
Subject: Re: Arrays suck. Loops rock.

Posted by [Benjamin Hornberger](#) on Tue, 08 Mar 2005 20:12:56 GMT

[View Forum Message](#) <> [Reply to Message](#)

Y.T. wrote:

> (I honestly fail to understand the provided example and am not at all
> sure that the two "rebins" are necessary. You are aware that 'rebin'
> performs interpolations, right?)

The rebin / reform steps are necessary if, e.g., you want to multiply a 3-d array [m, n, k] by a 2-d array [m, n] "layer by layer" in one array operation rather than looping over k. Rebin won't interpolate in this case, because you rebin from size 1 to size k (which just clones a value k times). See the Dimension Juggling Tutorial at

http://www.dfanning.com/tips/rebin_magic.html

Some of the reform steps are necessary because of IDL's terrible "feature" of cutting of trailing dimensions of size 1.

Thanks for the input! (I did run it multiple times, with similar results, but I see that I should probably shut down as much other activity on the computer as I can while timing these calculations.)

Benjamin
