Subject: Re: Unexpected rebin behavior
Posted by James Kuyper on Wed, 03 Sep 2003 16:31:30 GMT
View Forum Message <> Reply to Message

Mike Chinander wrote:
>
> Performing rebin on 2-d (or any higher dimension) integer arrays sometimes
> give results I didn't expect. Here's a trivial example array:
>
> IDL> help, b
> B INT = Array[2, 2]
>
> IDL> print, b
> 8 9
> 10 13
>
> Minifying this to a 1x1 array with rebin gives:
>
> IDL> print, rebin(b,1,1)
> 9
>
> But,
>
> IDL> print, fix(total(b)/4)
> 10

What it's doing is total(b/4), rather than total(b)/4. This has the advantage of handling large numbers without producing overflow. It has the disadvantage of underflowing for very small numbers, and producing wierd results when re-binning integer data.