Subject: Re: rebin question Posted by hradily.nospam on Fri, 22 Mar 2002 17:11:17 GMT View Forum Message <> Reply to Message print, round(rebin(float([5,5,5,5,4]),1)) Hassle? Maybe you could write a function. Which leads me to a new question: Is it possible to define a function or procedure in IDL that can take an arbitrary number of arguments, e.g.: function my_rebin, a, arg1, arg2, ... return, round(rebin(float(a), arg1, arg2, ...)) end On Fri, 22 Mar 2002 11:58:41 -0500, Jonathan Joseph < jj21@cornell.edu> wrote: > I figured I would use rebin to downsample an image by averaging the > pixels in blocks of specified size. What I discovered, was that for > integer type images, rebin averages the pixels, but then instead of > rounding to the nearest integer, simply takes the integer part of > the average. Hence: > print, rebin([5,5,5,5,4], 1) > > gives the result of 4, not 5 which is what I would like. I suppose > this is done for speed - to work around the problem, I need to convert > to a floating point type, do the rebin, then round, then convert back > to the proper integer type - a hassle. > But, I would really like a more generic way of doing downsampling > of this sort, without the high overhead of a loop. Apart from > taking the mean of a block of pixels, I would also like the option > of downsampling using the median of a block of pixels, or using the > mean of a block of pixels disregarding the farthest outlier (or > n outliers). > > Has anyone written IDL code to do downsampling in a more generalized > way than rebin, or have any clever ideas about how to do it quickly?

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> Thanks