Posted by Nate Tellis on Sun, 23 Jun 2013 22:24:17 GMT View Forum Message <> Reply to Message On Friday, 21 June 2013 17:04:31 UTC-7, Nate Tellis wrote: > Hi all, > > > I have a series of 711x4096x3 arrays. I am searching for good fits to a model, which is an 11x19 array, using a reduced chi-square fit. As it is now, I step across, pixel by pixel, column by column, pane by pane, and perform the fit to a subimage centred at the loop indices (normalized to the value of the central pixel). The fit is simple element-wise subtraction and squaring of the sub images, followed by one call to 'total' on the sub-image: > > Chi^2_red = 1/Npixels * Sum over each pixel((image - fit)^2/error^2) > > > (This is of course fast, as the -, ^2, /, and 'total' operations utilize the IDL thread pool) > > > > I know I can speed this up by using operations that leverage multithreading. How can I go about avoiding these hated nested for loops? Performing the fits on all ~8,500,000 subimages without multithreading takes way too long - about 90 seconds on average. > > Thank you for the help, > > Nate Here's a simpler question. I think I can solve my problem if I can do this efficiently: Say I have an array like: A =1234 5678

How can I use reform and rebin to get an array of dimension 2 by 2 by 2 that looks like

where A is 4 by 2

Subject: Re: Avoiding Loops in IDL 8.2.2

Any help is much appreciated.