
Subject: Re: Adding elements in an Array

Posted by on Tue, 24 Sep 2013 01:50:26 GMT

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On 2013-09-23 23:35, wlandsman wrote:

> OK, here is why I think the behavior of REBIN is intuitive. Like all good IDL explanations it (vaguely) involves HISTOGRAM.

>

> ReBin means to change the binning size. And, as with HISTOGRAM, when you change the binning size, the total sum over all bins must remain the same. When you REBIN a 512 x 512 array to 256 x 256 array, the total amount of "stuff" in the pixels is conserved; it is just distributed over bigger pixels. (To answer Mat's question -- REBIN does **not** do linear interpolation when minifying, it does averaging.)

Right. I agree that the behavior is intuitive. It was just the suggestion that it involves interpolation that I couldn't make sense of.

> This gives me a chance to plug one of my favorite programs -- FREBIN

> <http://idlastro.gsfc.nasa.gov/ftp/pro/image/frebin.pro>

> This program also conserves the "stuff" in the array, but allows new bin sizes that are not necessarily an integral fraction of the old. --Wayne

That's useful. Thanks!
