
Subject: Re: Adding elements in an Array
Posted by [wlandsman](#) on Mon, 23 Sep 2013 21:35:20 GMT
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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.)

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
