Subject: Re: Complex rebin
Posted by Craig Markwardt on Fri, 28 Mar 2003 09:12:26 GMT
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MKatz843@onebox.com (M. Katz) writes:
 Any reason why REBIN doesn't take complex args? I can't say why REBIN doesn't take complex args, but I can say that you have to be very careful when you interpolate complex values if you
> want to have meaningful results.
 Consider these two numbers z1 = complex(1,0) = 1. z2 = complex(-1,0) = -1.
Suppose you were using rebin to redice the size of a linear array by2.
> Which of the following behaviors would you want?
 You could separately average x and y like this, and get zero: z_avg = (complex(1,0) + complex(-1,0))/2. = complex(0,0) = 0
This one. It's what all the other flavors of REBIN do.
It's the "compress" form of REBIN that I would be really interested in, i.e. the ability to sum up loads of complex values.
Craig

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