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Subject: 2 arrays, average, missing data

Posted by [kimberlite](#) on Thu, 08 Sep 2005 14:18:44 GMT

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Hi All,

IDL newbie here, I would appreciate any help. (Have been pouring over Gumley and Fanning books for a day now, can't get this simple calculation done.)

I have 2 arrays. Each array has float values and missing data(value=0). I want to create a third array that has the average of the two arrays if there are two good values. Otherwise, I want the third array to take the value of the array that has data.

If my arrays are A and B, and the new array C, I know I can use:

$$C = (A+B)/2$$

to get the third array with averaged values. The only problem, is that missing data values are averaged in with good values also. (ie: 275 averaged w/ 0 -- when I want to just take the 275 value).

Have tried If statements, -- but I realize these are all for scalar values, not array.

My basic idea is:

If A = 0, C = B

If B = 0, C = A

If A and B EQ 0, C = 0

If A and B NE 0, C = (A+B)/2

Any help appreciated!

Thanks.

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