Subject: Re: 2 arrays, average, missing data
Posted by James Kuyper on Thu, 08 Sep 2005 17:31:59 GMT
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Benjamin Luethi wrote:
> An short answer would be:
>
> C = (A+B)/((A NE 0)+(B NE 0))
>
> The divisor is 1+1=2 if both A and B are not 0.
> 0+1=1 if one of them is 0.
> 0+0=0 if both A and B are 0.
>
> If A and B are integer, divison by zero produces 0, which is the wanted
> result.
> If A or B are of type double or float, the third case produces NaN.
> Convert it
> to zero using:
>
> sel = where(finite(C,/NaN),count)
> if count gt 0 then C[sel] = 0

Simpler:
C = (A+B)/((A NE 0)+(B NE 0) > 1.0)