
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:

>

> $C = (A+B)/((A \neq 0)+(B \neq 0))$

>

> 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, division 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:

$C = (A+B)/((A \neq 0)+(B \neq 0) > 1.0)$
