Subject: Re: 2 arrays, average, missing data Posted by Benjamin Luethi on Thu, 08 Sep 2005 15:24:52 GMT View Forum Message <> Reply to Message

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 at 0 then C[sel] = 0
```

Ben

On Thu, 08 Sep 2005 16:18:44 +0200, KJM <kimberlite@gmail.com> wrote:

```
> 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.

>