
Subject: Re: Summing arrays without loops

Posted by [Ken Mankoff](#) on Tue, 16 Oct 2001 20:07:41 GMT

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On Tue, 16 Oct 2001, Matt Jolly wrote:

> Hello IDL users,
>
> I have a 3d array of daily precipitation data for the globe that I would
> like to sum for the entire year but I would like to do it without looping.
> The array is initialized as follows:
>
> IDL> data = fltarr(365,192,94)
>
> where 365 is the number of days, 192 is the number of longitudes and 94 is
> the number of latitudes.
>
> Is there a way to sum the daily values without writing a nested loop?
>

```
help, total( data, 1 )  
<Expression>  FLOAT  = Array[192, 94]
```

or, with a mask of values gt 0:

```
mask = total( data gt 0, 1 )  
sum = total( data, 1 )  
result = sum / (mask>1)
```

-k.

--

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