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Subject: Re: help on creating a mean array of data

Posted by [Benjamin Hornberger](#) on Fri, 21 Oct 2005 18:11:41 GMT

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pimpk24@hotmail.com wrote:

```
> hello, iam very new to idl and would appreciate any help anyone could
> give on performing the following task:
>
> I have a large array of data which is meteorological data from multiple
> days. The data for each day is consistent (i.e. same amount) and i need
> a program that can average each kind of data
>
> For example, I have something like the following:
>
>   day a :
>       temp-1
>       temp-2
>       temp-3
>
>   day b :
>       temp-1
>       temp-2
>       temp-3
>
>
>
>
> and I need the following:
>
>   day a+b:
>       temp-1
>       temp-2
>       temp-3
>
>
>
> thanks for any feedback
>
```

If you have one array which looks like

```
t = [dayA_t1, dayA_t2, dayA_t3, dayB_t1, dayB_t2, dayB_t3]
```

you can do the following

```
;; turn array into a 2-dimensional array with one day per row
;; and one temperature per column
t = reform(t, n_temps, n_days, /overwrite)
```

```
;; calculate daily average for each temperature. total(.., 2)
;; will sum over the 2nd dimension (sum up all days),
;; then divide by the number of days.
t_avg = total(t, 2) / n_days
```

Good luck,  
Benjamin

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