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Subject: Re: help array subscripting  
Posted by [JD Smith](#) on Mon, 26 Jun 2006 16:38:00 GMT  
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On Sat, 24 Jun 2006 11:21:48 -0700, pimpk24 wrote:

> Hello all,  
>  
> I am looking for a more efficient way to subscript various data arrays to a  
> time/index array  
>  
> Say I have data arrays : [x], [y], [z],  
>  
> and I have time arrays : [1pm] , [2pm], [3pm] , [4pm] etc.....  
>  
> Right now I am simply doing this by typing:  
>  
> x\_1pm = x[1pm]  
> x\_2pm=x[2pm]  
>  
> y\_1pm=y[1pm] etc.....  
>  
> This is very long and tedious, so I imagine (hope) there must be a better  
> way.

You can either use higher-dimensional arrays (if 1pm, 2pm, 3pm  
etc. all have the same length), and index them all at once, like:

```
times=[ [1_pm], [2_pm], [3_pm] ]  
xt=x[times]  
yt=y[times]
```

or, if they are of different length, use an array of pointers, ala:

```
times=ptrarr(n_times)  
times[0]=ptr_new(...) ;; fill in the times pointer array
```

```
for i=0,n_elements(times)-1 do begin  
  xt=x[*times[i]]  
  yt=y[*times[i]]  
  ;; do something with xt, yt  
endfor
```

JD

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