
Subject: Re: 1D plots from 2D data

Posted by [Martin Schultz](#) on Wed, 30 Dec 1998 08:00:00 GMT

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raph@phy.ornl.gov wrote:

>
> Hi All-
>
> I have YANQ (Yet Another Newbie Question), on which I'm hoping some
> kind soul will give me a head start. I have a 2D array $f(i,j)$, which
> I'd like to plot versus i , bunching j_{\max} points over each i . If I simply
> plot $f(i,j)$ versus i , it treats f as a 1D array $i_{\max} \cdot j_{\max}$ long, so I get
> a plot of f versus $i + j \cdot i_{\max}$.
>
> Think of it as plotting a wave. By default, IDL plots multiple
> periods of the wave sequentially but I want to each period over the first.
> Is there an IDL routine which does this directly? Can I simply slice the
> data and overplot, which in pseudo-F90 would sorta look like
>
> Do $j=1, j_{\max}$
> $g=f(:,j)$
> plot g
> Enddo
>
> Any pointers are appreciated,
> Raph
>
>

it's almost the same as in F90:

```
plot,f[*:,j]
```

regards,
Martin

PS: and as a bonus point I allow myself to proliferate a tip from David Fanning's excellent book on programming techniques in IDL:
If you want to index all elements from i_0 to the last, simply write
 $f[i_0:*,j]$

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