
Subject: Re: Creating colour-coded plots of spectra
Posted by [David Fanning](#) on Mon, 03 Aug 2009 12:24:23 GMT
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Jimmy writes:

> However (and this is my fault for not being clear) I'm not really at
> that stage yet- I'm still trying to convert a line spectral plot into
> a colour coded image, prior to plotting it. I basically have an array
> with a range of values in representing an 8 second piece of data, then
> a load of zeros, then another load of data, then zeros, etc... for an
> hour or so. When plotting this prints out as many, many spectra all in
> a line, and I'm trying to get idl to display them vertically and in
> color (as in the Ulysses plots).
>
> It may be that I need to write something to do this (I'm thinking
> something that bins the data accoring to its value, then assigns it a
> color based on intensity...) but as I've seen these plots around and
> the seem fairly standard I was hoping someone might know of function
> or program to do it for me- with my IDL skills it's likely to take a
> fair bit of time/cursing!

It sounds to me like you need to use REFORM to turn your 1D array into a 2D array, and then use BYTSCL to convert your data into something you can display with TV. I think the "program" you are looking for is at most 3 or 4 lines long. :-)

Cheers,

David

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Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
