
Subject: Re: latitude, longitude and a data point
Posted by [David Fanning](#) on Tue, 11 Nov 2008 14:22:32 GMT
[View Forum Message](#) <> [Reply to Message](#)

kramerpeterk@gmail.com writes:

```
> I have 3 one dimension arrays,
>
> LATITUDE      FLOAT   = Array[15979]
> LONGITUDE     FLOAT   = Array[15979]
> VALUES       LONG    = Array[15979]
>
> and I want to be able to create a 2D array where each X,Y pair is the
> value at a particular latitude and longitude. To do this i've tried
> using David Fanning's scatter3d_on_map which I think plotted it
> correctly (hard for me to tell in direct graphics), but I am still
> not sure how to retrieve my 2D array with the floating values I
> want.
>
> I'm sure someone will give me an exceedingly simple 1 line solution
> but any help would be appreciated =)
```

If you just want a 2D array, and you know the dimensions of the rectangle (I would guess 177 by 90), then you can just reform your array:

```
values = Reform(values, 177, 90)
```

If you want a **projected** 2D array, then I would use MAP_PATCH to create one. You will have to set up the correct map projection first.

Cheers,

David

--

David Fanning, Ph.D.
Fanning Software Consulting, Inc.
Coyote's Guide to IDL Programming: <http://www.dfanning.com/>
Sepore ma de ni thui. ("Perhaps thou speakest truth.")
