Subject: Re: subseting a 3D array based on values from a 2D array
Posted by David Fanning on Fri, 07 Feb 2014 13:37:36 GMT
View Forum Message <> Reply to Message

eva.ivits-wasser@ext.jrc.ec.europa.eu writes:

> I have a 2D array (A) with dimensions of [ns,nl] (where ns=number of columns and nl=number of lines) and a 3D array (B) with dimensions of [ns,nl,nb] (where nb=number of bands). A is a classification image whereas B is a time-series, both have the same number of samples and lines.

> I'd need to find a certain value in A, let's say 100 (which occurs several times) and then I want to subset those elements of B which "overlaps" with A, i.e. have the same position as A.
>
> I've tried the where function but that gives me the one dimensional subscript of A and I don't quite manage to index B based on this subscript...
>
> I've tried array_indices but did not get further with that either.
>
> Any suggestions please?

```
dims = Size(A, /Dimenisions)
indices = Where(A ...)
colrow = Array_Indices(dims, indices, /Dimensions)
cols = colrow[0,*]
rows = colrow[1,*]
valuesIwant = B[cols, rows, *]
```

Cheers,

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