
Subject: Re: Selecting data from two separate arrays
Posted by [Mariolncandenza](#) on Mon, 21 Jun 2010 20:33:01 GMT
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On Jun 21, 12:57 pm, Fster <francis.colle...@live.co.uk> wrote:
> Would it be easier to combine them into one array? The issue is that
> one array is on the x and y axis, and the other is on x, y, z axis,
> BUT the x and y axis are the same for each of the arrays and equal
> number of grid points...

So, you want to select points from the XY array, and then extract the
corresponding data from the XYZ array, right?

There are quite a few ways to do this. Here's a simple one, not the
fastest, but the simplest code-wise:

```
DATA2 = <XY data>
DATA3 = <XYZ data>
;Get size of Z dimension
NZ=(size(DATA3))[3]
; pick points from the XY data
F2 = WHERE(DATA2 ge VALUE,NF2)
; set up an array to hold the extracted 3D data
DATA3_EXTRACT = FLTARR(NF2,NZ)
; load the data into the array
for IZ=0I,NZ-1 do DATA3_EXTRACT[* ,IZ]=(DATA3[* ,IZ])[F2]
```
