
Subject: Subsetting an array with user defined values
Posted by [dfinnegan](#) on Mon, 19 Jul 2004 16:10:07 GMT
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Hi all,

Not sure if this is a repetitive question or not.

I have a series of ascii XYX files that I am reading into IDL and creating an array with (array[3,millions]). Importing is no problem as well as working with the array. What I would like to do is subet the array by a given min and max longitude and latitude so that I get back only the values within that range, say a user defined box.

I am doing this with the following code (the data has been sorted and nulls removed prior to this):

```
latmin=3763965.28  
latmax=3763985.74  
lonmin=534302.28  
lonmax=534335.50
```

```
IF latmin GE min(data[0,*]) then begin  
    print, 'inside latmin'  
    vgood= where(data[0,*] GT latmin)  
    data = temporary(data[*],vgood])  
ENDIF
```

```
IF latmax LT max(data[0,*]) then begin  
    print, 'inside latmax'  
    vgood= where(data[0,*] LE latmax)  
    data = temporary(data[*],vgood])  
ENDIF
```

```
IF lonmin GE min(data[1,*]) then begin  
    vgood= where(data[1,*] GE lonmin)  
    data = temporary(data[*],vgood])  
ENDIF
```

```
IF lonmax LE max(data[1,*]) then begin  
    vgood= where(data[1,*] LE lonmax)  
    data = temporary(data[*],vgood])  
ENDIF
```

Is there a more efficient way of extracting the data from these arrays? An example would be great!

Thanks in advance,

Dave
