
Subject: Re: Removing bad data from an array
Posted by [David Fanning](#) on Fri, 10 Aug 2007 15:12:59 GMT
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Melanie writes:

> I am trying to remove bad data points from an array. I have found the
> index numbers where the bad data points are located, but I am not sure
> the most efficient way to go through the array and remove those data
> points. Does anyone know of a simple way to do this?

It is probably easier to look for the *good* points, but...
to each his own. :-)

Try something like this:

```
badpnts = Where( array LT whatever, badcount, $  
                COMPLEMENT=goodpnts, NCOMPLEMENT=goodcount)  
IF goodcount GT 0 THEN array = array[goodpnts]
```

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.")

Subject: Re: Removing bad data from an array
Posted by [David Fanning](#) on Fri, 10 Aug 2007 15:25:53 GMT
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David Fanning writes:

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> It is probably easier to look for the *good* points, but...
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> Try something like this:

```
> badpnts = Where( array LT whatever, badcount, $  
>                COMPLEMENT=goodpnts, NCOMPLEMENT=goodcount)
```

> IF goodcount GT 0 THEN array = array[goodpnts]

Of course, if you used some other method than WHERE to find the bad points (what other method is there!?), you might have to use another method for find the good points. A SETDIFFERENCE method comes to mind:

http://www.dfanning.com/tips/set_operations.html

Something like this, assuming a vector of "badpixels" and a 2D array.

```
s = Size(array, /Dimensions)
allpixels = Indgen(s[0]*s[1])
goodpixels = SetDifference(allpixels, badpixels)
array = array[goodpixels]
```

Cheers,

David

--

David Fanning, Ph.D.

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Subject: Re: Removing bad data from an array
Posted by [Melanie](#) on Fri, 10 Aug 2007 15:55:54 GMT
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Thanks David. I did use WHERE to find the bad points so the first method you mentioned worked out perfecctly.
