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:

>> 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]

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
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Coyote's Guide to IDL Programming: http://www.dfanning.com/
Sepore ma de ni thui. ("Perhaps thou speakest truth.")