Subject: Re: Another "How to efficiently do this in IDL" question
Posted by JDS on Thu, 03 Nov 2011 21:56:10 GMT
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On Friday, October 21, 2011 6:15:09 PM UTC-4, robintw wrote:
>
> The other main question is that if I've got an array of points like the
> following:
>
> 1 3 3 5 6 2 1
>   *
>
> What is an efficient way to check that there are at least two points on
> each side of the central point (marked with a star) that have a lower
> value than it. My original thought was to loop through the cells, but I
> suspect some fancy histogram command could do something to help with this...
>

You can find all the "5 point peaks" relatively efficiently:

wh=where(d gt ((m=median(d,3))) and smooth((d eq m)*(n-2),n-2) eq n-3)

n=5 in your case.