Subject: Re: Finding the index of the median
Posted by daffer on Tue, 29 Oct 1996 08:00:00 GMT
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In article <32769981.73B9@cassini.lpl.arizona.edu>,
Dean Schulze <schulze@cassini.lpl.arizona.edu> wrote:
> Joseph M. Zawodny wrote:
>>
>> Dean Schulze wrote:
>>>
>>> David Fanning wrote:
>>>
>>>> Be aware that there can be multiple locations in your
>>>> array that are equal to the median value. The index that
>>>> is returned by the WHERE function will be an array of
>>>> all of those values.
>>>
>>>   That is exactly why the WHERE() function won't work.
>>> I need to know which one of those locations is returned
>>> by the MEDIAN() function.
>
>> MEDIAN does not return an element or LOCATION, it returns a
>> VALUE which may be held by one or more elements.
>
>   Sorry, careless writing on my part. I should have said
> "I need to know the location of the value that is returned
> by MEDIAN()".
>
 >

 (snipped to save space)

>
>   An unusual situation, but one that MEDIAN() and WHERE() don't
> seem to work with.
>
>
> Dean Schulze
>

Dean
Implement your own median

let data = your data
    noise = associated noise array
    n = n_elements(data)
    s = sort(data)

median = data(s(n/2))
associated_noise_value = noise(s(n/2))
This is pretty much what median does.

I think that does it.
Let me know if I'm wrong.
WHD
--

William Daffer
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