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Subject: Re: Matching Lats and Lons from two arrays  
Posted by [Jean H.](#) on Tue, 26 Aug 2008 17:07:04 GMT

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pgrigis@gmail.com wrote:

```
> Would something like this work for sorted x (plus some fix for first
> and last element)?
> There's going to be an overhead for sorting x if not already sorted
> however.
>
> x=[3,3.5,4,6.5,7]
> y=[3.4, 3.0, 6.8, 6.3]
>
> a=value_locate(x,y)
> result=a+( (y-x[a]) GT (x[a+1]-y))
> print,result
>
>
> Ciao,
> Paolo
```

this would work if you only have 1 coordinate (latitude), not with 2  
(lat,long)...

Jean

```
>
> Brian Larsen wrote:
>> I have tried this on several occasions (for a little different
>> application but I think its the same) and have had no luck eliminating
>> the for loop, so I just wrote it in a function to hide it from
>> myself. This is my try at this based on value locate:
>> http://people.bu.edu/balarsen/Home/IDL/Entries/2008/1/7\_roun
d2array\_\(updated\_7Jan2008\).html
>>
>> If others know how to eliminate the for loop that would be fantastic.
>>
>>
>> Cheers,
>>
>> Brian
>>
>> -----
>> Brian Larsen
>> Boston University
>> Center for Space Physics
>> http://people.bu.edu/balarsen/Home/IDL
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