Subject: Re: rebinning two arrays? or re: finding exclusive elements between 2 not-quite identical arrays?
Posted by havok2063 on Fri, 28 Nov 2014 19:05:50 GMT

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Hi Heinz,

Thanks so much. That's perfect. Sorry I missed that other line in your original post. Thanks for pointing it out. Things make much more sense now. Thanks for your help.

Cheers, Brian

On Friday, November 28, 2014 1:49:23 PM UTC-5, Heinz Stege wrote:
> Hi Brian.
>
> On Fri, 28 Nov 2014 08:54:10 -0800 (PST), Brian Cherinka wrote:
>
>>
>> So this post is related to my original post here, but it's not quite working out.
>> https://groups.google.com/forum/#!topic/comp.lang.idl-pvwave /CtiGTuNqD10
>>
>> ...
>>
>> So I have two arrays where I need to extract the elements in one array not in the other, but the elements are not quite exact to one another.
>>
>> A = [309, 313, 318, 322, 327, 331, 336, 340]
>> B = [305, 309, 314, 318, 323, 327, 332, 336, 341, 345]
>>
>> B is the true array, and A is the "found" array that is missing some elements. I want to find all elements missing from A that exist in B.
>>
>> The solution I adopted, from the previous post, is something like
>>
>>   diff = 2 ; offset between integers
>>   temp = value_locate(A,B)
>>   missloc = where(B-A[temp] gt diff and A[temp+1]-B gt diff, misscount)
>>
>> This mostly works, however it does not work when the elements that are missing are the edges, i.e. the first or last element.
>>
>> [...]
>
> The missing elements on the left edge were recognized by the
> additional two lines in my draft. But not the missing elements on the
> right edge. This is true.
>
> However I would not use the histogram function to overcome this. I

> would go a more easy way, which I expect to be both, faster and less
> memory consuming. It is only a little change to the code above:
>
> A = [309, 313, 318, 322, 327, 331, 336, 340]
> B = [305, 309, 314, 318, 323, 327, 332, 336, 341, 345]
> diff = 2 ; offset between integers
> temp = value_locate(A,B)
> missloc = where((B-A[temp] gt diff and A[temp+1]-B gt diff) or $
>   a[0]-b gt diff or $; elements on the left edge
>   b-a[n_elements(a)-1] gt diff, $; right edge
>   misscount)
> if misscount ge 1 then print,b[missloc]
>
> Good luck again, Heinz