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Subject: Re: where function not finding value  
Posted by [Jahvasc](#) on Tue, 10 Mar 2015 18:12:41 GMT  
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Hi, guys,

I have a similar problem but I'm comparing intervals to avoid the float-precision problem. Still, I can't get the right answer...

I have a vector with 500 values ranging from 0.01 to 0.4 (0.01 to 0.1 by 0.01; 0.2 to 0.4 by 0.1). When I use the histogram function I get a certain number of counts for all intervals:

79	57	48	44	43	43
30	43	31	34	25	14 9

i.e., the value 0.01 appears 79 times, the value 0.02, 57 times, etc.

However, when I use the where function, I get some "holes". This is the bit of the code I'm using:

```
mmod=[findgen(10)*0.01 + 0.01,findgen(3)*0.1 + 0.2]
massi=0.
for j=0,12 do begin
  a=where(mass gt massi and mass le mmod(j),count)
  print,massi,mmod(j),count
  massi=mmod(j)
endfor
```

In this case I get the following numbers:

0.00000	0.0100000	79
0.0100000	0.0200000	57
0.0200000	0.0300000	48
0.0300000	0.0400000	44
0.0400000	0.0500000	0
0.0500000	0.0600000	43
0.0600000	0.0700000	73
0.0700000	0.0800000	43
0.0800000	0.0900000	0
0.0900000	0.1000000	31
0.1000000	0.2000000	59
0.2000000	0.3000000	14
0.3000000	0.4000000	9

When I manually try, for example,

```
a=where(mass gt 0.04 and mass le 0.05,count)
print,count
```

I get count=43. What's is going on?

Thanks,

Jaqueline

On Thursday, April 3, 2014 at 7:44:00 PM UTC+2, Marsha Boggs wrote:

```
> Hello,
> I have a problem with a particular call to the 'where' function that I don't understand.
>
> I have the following code snippet:
>
>     print, 'dncom.dt.julian is: ', dncom.dt.julian
>     print, 'dt.julian is: ', dt.julian
>
>     ; end debug
>     i = where(dncom.dt.julian eq dt.julian, count) ; Find index of requested date & time
> if count gt 0 then begin
>     data = dncom(i)
>     ; debug stuff
>     print, 'the data ', data
> endif else begin
>     print, 'ncom_table.pro: desired or most recent time not found'
>     retail
>     return
> endelse
```

> and it says the requested value is not there everytime..

> This is the output

```
> dncom.dt.julian is:      95528.427      95528.438      95528.448
> 95528.458      95528.469      95528.479      95528.490
> 95528.500      95528.510      95528.521      95528.531
> 95528.542      95528.552      95528.562      95528.573
> 95528.583      95528.594      95528.604      95528.615
> 95528.625      95528.635      95528.646      95528.656
> 95528.667      95528.677      95528.688      95528.698
> 95528.708      95528.719      95528.729      95528.740
> 95528.750      95528.760      95528.771      95528.781
> 95528.792      95528.802      95528.812      95528.823
> 95528.833      95528.844      95528.854      95528.865
> 95528.875      95528.885      95528.896      95528.906
> 95528.917      95528.927      95528.938      95528.948
> 95528.958      95528.969      95528.979      95528.990
> 95529.000      95529.010      95529.021      95529.031
> 95529.042      95529.052      95529.062      95529.073
```

```
> 95529.083 95529.094 95529.104 95529.115
> 95529.125 95529.135 95529.146 95529.156
> 95529.167 95529.177 95529.188 95529.198
> 95529.208 95529.219 95529.229 95529.240
> 95529.250 95529.260 95529.271 95529.281
> 95529.292 95529.302 95529.312 95529.323
> 95529.333 95529.344 95529.354 95529.365
> 95529.375 95529.385 95529.396 95529.406
> 95529.417 95529.427 95529.438 95529.448
> 95529.458 95529.469 95529.479 95529.490
> 95529.500 95529.510 95529.521 95529.531
> 95529.542 95529.552 95529.562 95529.573
> 95529.583 95529.594 95529.604 95529.615
> 95529.625 95529.635 95529.646 95529.656
> 95529.667 95529.677 95529.688 95529.698
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> 95529.833 95529.844 95529.854 95529.865
> 95529.875 95529.885 95529.896 95529.906
> 95529.917 95529.927 95529.938 95529.948
> 95529.958 95529.969 95529.979 95529.990
> 95530.000 95530.010 95530.021 95530.031
> 95530.042 95530.052 95530.062 95530.073
> 95530.083 95530.094 95530.104 95530.115
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> 95530.167 95530.177 95530.188 95530.198
> 95530.208 95530.219 95530.229 95530.240
> 95530.250 95530.260 95530.271 95530.281
> 95530.292 95530.302 95530.312 95530.323
> 95530.333 95530.344 95530.354 95530.365
> 95530.375 95530.385 95530.396 95530.406
> 95530.417 95530.427
```

```
>
> dt.julian is: 95530.427
> ncom_table.pro: desired or most recent time not found
>
>
> The value is there, It is the last value in the array.
> Any idea what is going on?
```

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