## Subject: WHERE command returning -1 even if matching is there
Posted by Sapna Mishra on Wed, 22 Jun 2016 15:50:19 GMT

Hello All,

I have a long float array say b_arr.
and I know it has a value 0.999254 at position 4556th in b_arr
but when I am doing:

i=where( b_arr EQ 0.999254)
print,i
 -1

It should return i=4556. isn't??
How come is this possible any help please?

## Subject: Re: WHERE command returning -1 even if matching is there
Posted by Helder Marchetto on Wed, 22 Jun 2016 16:02:10 GMT

On Wednesday, June 22, 2016 at 4:50:22 PM UTC+1, Sapna Mishra wrote:
> Hello All,
>
> I have a long float array say b_arr.
> and I know it has a value 0.999254 at position 4556th in b_arr
> but when I am doing:
>
> i=where( b_arr EQ 0.999254)
> print,i
>  -1
>
> It should return i=4556. isn't??
> How come is this possible any help please?

Try printing:
print, b_arr[4556]-0.999254
print, b_arr[4556] eq 0.999254

What do you get?

Cheers,
Helder

## Subject: Re: WHERE command returning -1 even if matching is there

Posted by Sapna Mishra on Wed, 22 Jun 2016 16:14:12 GMT

On Wednesday, June 22, 2016 at 9:32:13 PM UTC+5:30, Helder wrote:
> On Wednesday, June 22, 2016 at 4:50:22 PM UTC+1, Sapna Mishra wrote:
>> Hello All,
>>
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>> and I know it has a value 0.999254 at position 4556th in b_arr
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>>
>> i=where( b_arr EQ 0.999254)
>> print,i
>>   -1
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>> It should return i=4556. isn't??
>> How come is this possible any help please?
>
> Try printing:
> print, b_arr[4556]-0.999254
> print, b_arr[4556] eq 0.999254
>
> What do you get?
>
> Cheers,
> Helder

I am getting
3.57628e-07
0

I don't know what is wrong they both are the same numbers

---

Subject: Re: WHERE command returning -1 even if matching is there
Posted by wlandsman on Wed, 22 Jun 2016 17:21:15 GMT

Maybe the sky is falling
http://www.idlcoyote.com/math_tips/sky_is_falling.html

You might also use the following function for comparing floating point numbers
https://www.idlcoyote.com/programs/floats_equal.pro

On Wednesday, June 22, 2016 at 12:14:14 PM UTC-4, Sapna Mishra wrote:
> On Wednesday, June 22, 2016 at 9:32:13 PM UTC+5:30, Helder wrote:
>> On Wednesday, June 22, 2016 at 4:50:22 PM UTC+1, Sapna Mishra wrote:

>>> Hello All,
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>> Try printing:
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>> Cheers,
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>
> I am getting
> 3.57628e-07
> 0
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> I don't know what is wrong they both are the same numbers

---

## Subject: Re: WHERE command returning -1 even if matching is there
Posted by rawahranger on Wed, 22 Jun 2016 17:24:22 GMT
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Sapna Mishra writes:

> I am getting
> 3.57628e-07
> 0
>
> I don't know what is wrong they both are the same numbers

I have a feeling this Sky is Falling article will remain my lasting legacy well into the next century!
;-)

   http://www.idlcoyote.com/math_tips/sky_is_falling.html

Cheers,

David