Subject: Re: A strange error with WHERE
Posted by Lindzen on Fri, 31 Jul 2009 03:33:35 GMT
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> Lindzen writes:
>>   I come across a strange error with WHERE function. Could you
>> please help me to check it?
>> Here is part of the code. I will explain below the code.
>
>> outer1_begin: id_hr = where(r03_temp ge 50)
>>   n_hr = n_elements(id_hr)
>
>> if (n_elements(id_hr) gt 1) then begin
>> id_max = where(r03_temp eq max(r03_temp))
>> lonc = lon_aoc(id_max)
>> latc = lat_aoc(id_max)
>
>> ii=0
>> outer2_begin: print,ii
>> ii=ii+1
>>   lon_left = lonc-ii*0.5
>>   lon_right = lonc+ii*0.5
>>   lat_up = latc+ii*0.5
>>   lat_down = latc-ii*0.5
>>   id_box = where(lon_aoc ge lon_left)
>
>> Here lon_left=117.25, is a flot number. lon_aoc is a 80*30 matrix,
>> with many values larger than 117.25.
>> If I use id=where(lon_aoc ge 117.25), id returns right results.
>> However, the above code returns -1 to id_box. It is really strange.
>> Could anyone help me? Thank you very much!
>
> There is nothing wrong with the WHERE function.
> There is (certainly) something wrong with one
> of your assumptions. You will need to discover
> which one it is. The HELP and PRINT commands are
> useful for this chore.
>
> Cheers,
>
> David
>
> --
> David Fanning, Ph.D.
> Fanning Software Consulting, Inc.
> Coyote's Guide to IDL Programming:http://www.dfanning.com/
> Sepore ma de ni thui. ("Perhaps thou speakest truth.")

Thanks David.
However, there is nothing wrong with the assumption. I selected one
case which fits the IF assumption, and checked the code line by line.
Even if I delete the IF line, the error still exist.
HELP, lon_left shows that lon_left is a flot.
PRINT,lon_left shows the exact value of 117.25.
That is why I think it is strange.

Lin