
Subject: Re: [Q]IDL: Using WHERE.

Posted by [rivers](#) on Wed, 20 Mar 1996 08:00:00 GMT

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In article <314F31C4.2C6B@cdc.noaa.gov>, Andy Loughie <afl@cdc.noaa.gov> writes:

> Joe Fitzgerald wrote:

>> Is there a way to use B to get the complementary values; i.e., the array
>> of subscripts for which ARRAY is less than 20?

> Uh! This is a set-up, isn't it?

> Is my boss watching?

> How about LESS THAN OR EQUAL TO? That would be complementary.

>

> Why use B? Why not use...

> C = Where(array LE 20., count)

> if (count gt 0) then print, 'Hurray!'

I think the idea was to use B to avoid the potentially expensive operation of comparing the entire array again to find the complementary elements.

I think this will cut the computation time:

t = (array gt 20) ; t(i) will be 0 or 1 depending upon comparison

b = where(t) ; b is the indices of the > 20 elements

c = where(t-1) ; c is the indices of the <= 20 elements

This method avoids doing the floating point comparison twice.

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