
Subject: Re: nearest number

Posted by [btt](#) on Mon, 07 Aug 2006 13:52:34 GMT

[View Forum Message](#) <> [Reply to Message](#)

bressert@gmail.com wrote:

> Hello,

>

> Im writing a bit of IDL code where a large array of floating numbers is
> compared to one floating number. The aim of comparing the array to the
> floating number to find which the values "closest" match. I had the
> idea that I could write an algorithm that starts with the following

>

> =====

> index = where(array eq floating_value, count)

>

> if (size(index, /n_elements) eq 1) AND (index eq -1) then begin ...

> =====

>

>

> This bit would find the index numbers of the array that would be
> exactly the same to the floating number. If there is no number the
> where function returns a -1. From this point, I could try and round off
> the floating number and numbers in the array with smaller decimal
> places until there is a match. Would this be the best approach? Or is
> there already a built code in IDL or from someone else that does this?
> Any help is appreciated. Thanks!

Hi,

Check out the following thread - JD Smith discusses a couple of
approaches to solve this kind of problem.

<http://tinyurl.com/e6ke7>

Cheers,
Ben
