
Subject: Re: Need help with value_locate and interpolation
Posted by [Wayne Landsman](#) on Fri, 02 Apr 2004 17:20:09 GMT
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Leslie Welser wrote:

> I'm having some trouble with using the value_locate function. Let's
> say I have a vector with 10 elements, and I want to find the
> "interpolated" array index for a particular value. I know how to
> interpolate the vector, but I can't find a way to return the index as
> a float and not an integer. In other words, given a certain value of
> the array, I would like to find a way to return the information that
> that interpolated value is at an index of, say, 4.27. Is there a
> simple way to do this?

You might look at the function tabinv.pro at
<ftp://idlastro.gsfc.nasa.gov/pub/pro/math/tabinv.pro>

which first uses VALUE_LOCATE to find the two integer indices which
bracket the supplied value, and then linear interpolates between the two
indices to return a floating point value.

--Wayne Landsman
