Subject: Re: Need help with value_locate and interpolation
Posted by JD Smith on Fri, 02 Apr 2004 17:06:39 GMT

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On Fri, 02 Apr 2004 12:00:54 -0500, Ben Tupper wrote:

> 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?
>> Thanks,
>> Leslie
>
> Hello,
>
> I can't understand what you are after, at least, I don't see how an
> interpolated value could have an "index" into the original. Could you
> take another swing at your question - maybe with pseudo-code of what you
> want to do.

I think he probably means his data is monotonic, in which case
something like:

frac=interpol(findgen(n_elements(data)),data,value)

will work. Here `value' can be a vector (and should be, if you have
multiple values to search).

JD