Subject: Re: interpolation question
Posted by Paul Van Delst[1] on Mon, 24 Apr 2006 19:09:27 GMT
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chen123.dian@gmail.com wrote:
> Hi,
>
 Thanks so much for all suggestions here.
> I am so wonder that why IDL has no simple function like MATLAB's
> 'interp2'. Another problem is for value locate. Some suggestions
> mentioned to use value locate. Here is a example to show my problem.
>
> IDL > vec = [2.0, 5.0, 8.0, 10.0]
> IDL> print, vec
                             8.00000
>
      2.00000
                  5.00000
                                         10.0000
> IDL> loc = VALUE_LOCATE(vec, [0.0, 4.5, 5.0, 6.0, 12.0])
> IDL> print, loc
        -1
                 0
                         1
                                  1
                                          3
>
> We can see the value of "4.5" corresponds to index location of "0".
> Actually, the value of "4.5" should correspond to index location of "1"
> because the value of "4.5" is closer to the value of "5.0" having index
> location of "1".
From the documentation:
<quote>
Result = VALUE_LOCATE ( Vector, Value [, /L64 ] )
Return Value
Each return value, Result [i], is an index, j, into Vector, corresponding to the interval
into which the given Value [i] falls. The returned values are in the range -1 £ j £ N-1,
where N is the number of elements in the input vector
</quote>
So the results you've got seem to be correct.
pauly
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