
Subject: Re: value_locate.pro location in IDL library
Posted by [Joel Gales](#) on Sat, 16 Sep 2006 13:05:54 GMT
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Ben Tupper wrote:

> Mark Hadfield wrote:

>

>> ZMY wrote:

>>

>>> Thanks, Wayne and David. The information is very helpful. Craig's

>>> value_locate.pro still doesn't work since spl_interp is not built into

>>> GDL yet (as far as I can tell for version 0.9).

>>

>>

>> Surely you could patch in an alternative interpolation routine. Linear

>> interpolation would be adequate in many cases.

>>

> Hi,

>

> This is from the online help...

>

> "This function is useful for interpolation and table-lookup, and is an

> adaptation of the locate() routine in Numerical Recipes. VALUE_LOCATE

> uses the bisection method to locate the interval."

>

> You can find the Numerical Recipes algorithm online. Seems like it

> should be easy to implement in IDL. One interesting thing I have

> recently bumped into is that IDL's built-in works with strings.

>

> IDL> Arr = ['at','bat','cat','dat','eat','fat','gat','hat']

> IDL> print, value_locate(arr, 'cup')

> 2

> IDL> print, value_locate(arr, 'eet')

> 4

> IDL> print, value_locate(arr, 'Bat')

> -1

> IDL> print, value_locate(reverse(arr), 'cup')

> 4

>

> Nifty!

> Ben

There is a VALUE_LOCATE procedure in the CVS repository in src/pro.

Joel
