
Subject: Re: value_locate.pro location in IDL library

Posted by [btt](#) on Fri, 15 Sep 2006 14:26:26 GMT

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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
