Subject: value_locate.pro location in IDL library
Posted by IDL_Newbie_2000 on Wed, 13 Sep 2006 21:16:58 GMT
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I am trying to use GDL to do some of my work and noticed it was reporting a missing function of value_locate(). I looked for this procedure/function in IDL library but can't find it, which is really strange to me, since a lot of functions seem to use it in IDL (e.g. mean()). Would any one tell me where I can find this function in the computer?

Thanks in advace.

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 should easy to implement in IDL. One interesting thing I have recently bumped into is that IDL's built-in works with strings.

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Subject: Re: value_locate.pro location in IDL library Posted by Joel Gales on Sat, 16 Sep 2006 13:05:54 GMT View Forum Message <> Reply to Message
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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 should 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')
>
  IDL> print, value_locate(arr, 'eet')
>
>
  IDL> print, value_locate(arr, 'Bat')
 IDL> print, value locate(reverse(arr), 'cup')
         4
>
> Nifty!
> Ben
```

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

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