
Subject: Re: search routine

Posted by [cmancone](#) on Fri, 01 Jun 2007 13:32:58 GMT

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On Jun 1, 9:11 am, Paolo Grigis <pgri...@astro.phys.ethz.ch> wrote:

> Laurens wrote:

>> Hi folks,

>

>> From Martin Schultz (posted in 1999) I found the following array-search

>> algorithm which seems to do a fine job.

>> Except that i'm not able to catch the first element in the array.

>

>> Example:

>

>> Array = [0,80,100,120,180,300]

>> result = search, Array, 4.53

>

>> It should return index 0, if I understand it correctly, but it returns 1

>> instead. Now I don't quite follow the logic of the function, so maybe

>> someone for which it's easy to see can help me in the right direction?

>

> You could use the built-in function value_locate instead:

>

> result=value_locate(array,4.53)

>

> which returns 0.

>

> Ciao,

> Paolo

If you wanted to program it up, you'd be better off with array operations anyway, something like this:

```
function search_array, arr, val
w = where( arr - val le 0 AND shift(arr,-1) - val ge 0 )
return,w
```