
Subject: Re: what is the highest subscript in the array?!?

Posted by [penteado](#) on Fri, 07 May 2010 19:05:50 GMT

[View Forum Message](#) <> [Reply to Message](#)

On May 7, 3:46 pm, munka <mynameismu...@gmail.com> wrote:

>> On May 7, 6:20 am, wlandsman <wlands...@gmail.com> wrote:

>> Sorry, that should be

>

>> dum = max(flux[1:N_elements(flux)-2], c) & index = c+1

>

> That still does not return the LOCAL maximum. If the max is on the

> edge, it will still return a value

>

> IDL> flux=findgen(10)

> IDL> print,flux

> 0.00000 1.00000 2.00000 3.00000 4.00000

> 5.00000

> 6.00000 7.00000 8.00000 9.00000

> IDL> print,max(flux)

> 9.00000

> IDL> print,max(flux[1:N_elements(flux)-2], c)

> 8.00000

> IDL> print,c+1

> 8

Could do something like

```
nflux=n_elements(flux)
```

```
local_maxima=where((flux[1:nflux-2] ge flux[2:nflux-1]) and
```

```
(flux[1:nflux-2] ge flux[0:nflux-3]))+1
```

That would give the indexes of all points that are local maxima,
defined as those larger than or equal to their immediate neighbors.
Then max() or histogram() may be used to pick the highest maxima,
depending on what is wanted.
