Subject: Re: Extract elements from floating-point array Posted by Kenneth P. Bowman on Sun, 06 Apr 2008 19:20:51 GMT View Forum Message <> Reply to Message

In article

<f91355dd-4389-4bf7-abc9-1525b88e8511@8g2000hsu.googlegroups.com>,
moxament@gmail.com wrote:

> Dear IDL group members,

>

- > I am beginner in the IDL programming and I have a lot of problems :(.
- > Mv guestion now is the following:

>

- > I have a floating-point array Rdata with 335412 elements. The values
- > of the elements are between 5.9e+009 minimum and 3.7e+0013 maximum. I
- > want to extract the elements of the array where Rdata(i) > Rdara(i-1)
- > and Rdata(i) > Rdata(i+1) and put them in a new array, lets say
- > Rdata_new.

>

- > Can anyone help me PLEASE. I tried ptrarr and ptr_new but I could not
- > get any result.

>

- > In addition, I do not know why I usually have problems when I deal in
- > IDL with arrays like the one I mentioned before??? as I said I am
- > beginner and I do not know if IDL has problems with huge arrays like
- > mines with such element values.

>

> any help will be appreciated.

>

Mohammed Dabboor

i = WHERE((rdata GT SHIFT(rdata, 1)) AND (rdata[1:n-2]: GT SHIFT(rdata, -1)), count) IF (count GT 0) THEN peaks = rdata[i]

SHIFT does a circular shift, so don't forget to treat the first and last elements separately.

Ken Bowman

Subject: Re: Extract elements from floating-point array Posted by Vince Hradil on Sun, 06 Apr 2008 20:17:28 GMT View Forum Message <> Reply to Message

On Apr 6, 10:28 am, moxam...@gmail.com wrote:

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> beginner and I do not know if IDL has problems with huge arrays like
> mines with such element values.
>
> any help will be appreciated.
> Mohammed Dabboor
You could try something like:
idx = where( Rdata gt shift(Rdata,1) and Rdata gt shift(Rdata,-1) )
Rdata_new = Rdata[idx]
You'll have to figure out how to deal with the "ends", i.e. Rdata[0]
and Rdata[n_elements(Rdata)-1]
```