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Subject: Re: data criteria

Posted by [anil](#) on Wed, 26 Aug 2009 08:00:29 GMT

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wrote:

> anil wrote:

>> Hi all,

>> I do not have much information about programming or algorithms

>> (actually IDL is my first programming language), so my question may

>> rather be simple but i could not figure it out , so here we go:

>> .....

>> So I want to take the lines from the first line up to 12.654200(since

>> the difference is more than 0.3)

>> What i have done so far is :

>

>> pro a

>> ;window, 0, retain=2

>

>> file\_array=file\_search('/home/...../0587', '0587.\*.txt',

>> count=num\_file)

>> for i=0,num\_file-1 do begin

>> file=file\_array(i)

>

>> nrows = File\_Lines(file)

>

>> data=fltarr(5,nrows)

>

>> OpenR, lun, file, /GET\_LUN

>> ReadF, lun, data

>> Free\_Lun, lun

>

>> p=data(0,\*)

>> t=data(1,\*)

>> s=data(2,\*)

>> q=data(3,\*)

>> d=data(4,\*)

>> close,lun

>> free\_lun, lun

>

>> 1st try

>> ;for k=1,nrows-2 do begin k=k+1

>> ;ml=where((d(k+1)-d(k)) gt 0.3,ss)

>> ;endfor

>

>> 2nd try

>> ;k=1

>> ;repeat begin ml=(d(k)-d(k-1))

```
>> ;k=k+1
>> ;endrep until (ml gt 0.3)
>> ;print,d(0:k)
>
>> free_lun,lun
>> endfor
>
>> close,/All
>> end
>
>> Neither of them work ! I used an if-then-else statement too but could
>> not solve my problem.
>> I would really appreciate any help. Thanks in advance,
>> ANIL
>
> Hi Anil,
>
> the problem with your code is that you are not using not saving ML... so
> you erase it in each loop.
>
> You could do it this way:
>
> toKeepIDX = where(d - shift(d,-1) ge 0.3)
> goodData = data[:,toKeepIDX]
> and/or: goodA = a[toKeepIDX] goodB = b[toKeelDX] etc
>
> In the first line, you compare each entry with its previous one and you
> select ALL entries according to your criterion. Next, you extract the
> data itself.
>
> This will bring a problem for the first entry of course. Also, keep in
> mind the case where you don't have the .3 of different between 3
> consecutive values ( 1, 1.01, 1.02, 1.03 etc)
>
> Jean
```

I see you are right about the ML. Thanks a lot for replying

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