Subject: Re: uniq slow for loop
Posted by ben.bighair on Fri, 17 Jul 2009 01:40:12 GMT
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On Jul 16, 5:52 pm, newerjazz <shang...@gmail.com> wrote:
> Hi All,
>
> I have an array of [9,1,000,000]. In one of the columns are sorted
> numbers (eg. 0,1,1,2,3,3,3,3,3,4,4,5,5,5,6,7,7,7,etc). I want to pick
> out all the rows where column 9 is equal to some number and average
> all the quantities in those rows.
>
> Right now I use a for loop and the where function to pick out these
> rows. This is of course very slow. Anyway to increase the speed of
> this would be greatly appreciated. Thank you very much!
>
> Cheers,
> newerjazz
>
> nmax = max(data(8,*))
> FOR j=0, nmax DO BEGIN
> w=where(data(8,*) eq j, nw)
> blah=mean(data(*,w))
> etc,etc
> ENDFOR

Hi,

I am pretty sure that you want a variant of histogram. I think you
might be able to harness something from the following discussion.

http://tinyurl.com/nggcx6

Cheers,
Ben

Subject: Re: uniq slow for loop
Posted by newerjazz on Fri, 17 Jul 2009 15:59:18 GMT
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Thanks Ben

I rewrote using histogram so as to eliminate calling where inside for
loop. Program is running now. Am sire it will be faster. Any comments
on how to improve further is appreciated.

```
h=histogram(data(8,*),binsize=1)
hmax=size(h)
hmax=hmax(1)-1

FOR  j=0, hmax DO BEGIN
  blah=mean(data(*,i:i+h(j)-1))
  etc,etc
  i=h(j)+i
ENDFOR
```

On Jul 16, 6:40 pm, "ben.bighair" <ben.bigh...@gmail.com> wrote:
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