Subject: problem in finding average for every 100 points in a data set.
Posted by arsood on Sat, 01 Feb 2014 02:26:48 GMT
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Hi,
I have a data of B =300,000 and I want to find average for every 100 points. (eg, 0-100,101-200,201-300 and so on)
I am using the following code

```
pro at
restore,'/home/coefficient.sav'
nn = 300000
BB = y3^2+y4^2
B= sqrt(BB)
bb = fltarr(long(nn-101))
For i = long(0), long(nn-101),long(100) do begin
bb(i) = mean(B(i:i+200))
endfor
print,bb
end
```

When I compile the program it prints zero along with nonzero values. so further I have o use another command for nonzero values

```
print,bb(where(bb ne 0.0))
```

Can please anybody tell me is my code correct and how can I print all non zero values in first place??

Thanks
ARSOOD

Subject: Re: problem in finding average for every 100 points in a data set.
Posted by Craig Markwardt on Sat, 01 Feb 2014 04:34:22 GMT
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On Friday, January 31, 2014 9:26:48 PM UTC-5, arsood wrote:
> Can please anybody tell me is my code correct and how can I print all non zero values in first place??

This code:
> bb(i) = mean(B(i:i+200))
is incorrect because you are averaging 201 points, not 100 points. Also, the variable I increases by 100 every step, so you only put valid data in B[] every 100th point.

If you are going to do it with a loop, then keep track of input array and output array separately, like this.

```
i = 0L
j = 0L
```

```
while i LT (n-100) do begin
  bb(j) = mean(b(i:i+99))
  i = i + 100  ;; Advance to next block in B
  j = j + 1    ;; Advance to next position in BB
endwhile
n_output = j
print, bb(0:n_output-1)
```

CM

Subject: Re: problem in finding average for every 100 points in a data set.
Posted by Moritz Fischer on Mon, 03 Feb 2014 06:52:27 GMT
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To get the means over blocks of 100 values, I'd reform 'B' (100 values
each line, thus 3,000 lines), and then get the means along each line:

```
bb = mean(  reform( B, 100, 3000 ), DIM = 1 )
```

Am 01.02.2014 03:26, schrieb arsood:
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> endfor
> print,bb
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> Thanks
> ARSOOD
>

>